



# **NAAC REPORT**

## **SUBMISSION OF SELF STUDY REPORT (SSR)**

To

**NATIONAL ASSESSMENT & ACCREDITATION  
COUNCIL  
BANGALORE**

By



**Shaheed Sukhdev College Of Business Studies**  
*University Of Delhi*

VIVEK VIHAR PHASE-II, DELHI -110095

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## PREFACE

Shaheed Sukhdev College of Business Studies (SSCBS), a constituent college of the University of Delhi, is a pioneering and premier college in undergraduate management education since 1987. This college was set up at the initiation of the UGC by the HRD Ministry with the visionary efforts of Shri Kireet Joshi, Prof. Ashoka Chandra, Prof. Moonis Raza, Prof. Abad Ahmad, Prof. Neelameghan and Dr. S.S. Gulshan. This college is 100% funded by the Govt. of NCT of Delhi.

The college has two departments – Management Studies and Computer Science. The Department of Management Studies offers Bachelors in Business Studies (BBS), Bachelors of Business Administration in Financial and Investment Analysis (BBA [FIA]). The Department of Computer Science offers B.Sc. (Hons.) in Computer Science. Also, Bachelors in Management Studies (BMS) and B.Tech (Computer Science) introduced in 2013-14 under the erstwhile Four Year Undergraduate Programme are also running in the institution.

Our college has built its reputation by producing extraordinary results through its practical approach to teaching grounded in real world applications through internships, term papers and case studies which are an integral part of the curriculum. Special add-on courses and workshops are regularly held by the college based on feedback from recruiters, alumni and senior academicians. We were the first undergraduate college to propose and implement a semester system two decades before the University of Delhi implemented the semester system at the undergraduate level.

We believe that education is not only about teaching curriculum. It is also about the development of human intellect, personality, and, instilling the right value system. The best practices of the college foster an environment that is ideally suited for producing a group of talented, dynamic, vibrant and responsive citizens of the world.

Academic excellence along with co-curricular activities has been the hallmark of CBS. As one rightly said ‘the aim of education is the knowledge not of facts, but of values.’ Our values distinguish us from others and helped us to give a different DNA to the college, and each one of us right from the Office Attendant to the Departmental Heads had a great spirit and drive all these years.

At SSCBS it is about teaching and reaching out to each one of our students. We teach, we counsel and through the numerous student activities we impart life skills. We stand behind their (students) backs, we enjoy with them and more importantly we also learn. We have an intimate learning environment with each one of us engaged and accessible to our students, and many other fun opportunities to interact with each other.

Our students become close friends, making the most of all of this. They form clubs of every sort; they speak openly, sensibly and provocatively in class; they encourage one another in divergent careers and activities; and they (much like each one of us in the faculty) are independent thinkers who are not embarrassed to be interested in ideas or to think creatively, even as they remain devoted to such things as politics, sports, or any other activity of their choice.

We have seen the last 27 years as the period of build-up for the college. It was full of challenges, but worth it. We did achieve fair amount of success too. Our students grew from 50 in 1987 to close to 1000 in 2014. The average annual package for our students hired by corporates is ` 5.6 lacs and a record of 164 offers were made during 2013-14. Not just that, our enterprising students have been engaged in having nearly 17 successful start-ups during their graduating years.

After 27 years of operation from a school building in Vivek Vihar, we are poised to shift to a new multi-storied campus in Rohini, Delhi. Spread over 5 acres, the campus would have all boarding/residential facilities for some boys and girls.

The visibility of the college also reached far and wide crossing borders of India, when our students kept stamping the world with their skills, talent and innovative thinking. The alumni passing out each year since 1990 have been giving significant contribution to the economy through not only corporate leadership, but also through public service, charity and entrepreneurship. We are proud and happy to say that college has produced leaders not just graduates.

Our college stands tall and high amongst graduate level business courses in India and we aim to make it the most sought-after college for such courses in south East Asia. No dream is too high for this college which has wonderful faculty and staff, amazing students and scintillating alumni.

In quest of excellence, the college has a legacy of self-assessment and self-evaluation. Nevertheless, complacency does not have a place. To keep pace with global changes, the quality of education must be monitored through the prism of a national body. The NAAC has developed certain measures for continuous improvement of the quality of higher education. There is a dual purpose of applying for the NAAC accreditation and assessment. On one hand it will further affirm and enforce our commitment towards academic excellence. While on the other, we will get a critical review and analysis of the progress of the institution.

This Self Study Report (SSR) presents information as per the requirement laid down by the NAAC in this regard. The report has been organized in two parts. The first part includes Profile of the College and Executive Summary. The second

part consists of Criterion wise Report and Department wise Evaluative Report. A Declaration is also provided at the end.

It was exhilarating to chronicle the best practices and culture prevalent in the college. The writing of this report gave us an opportunity to consolidate our strength and focus on improvements at all levels. The areas where we require to formulate policies could be identified. It witnessed the moments of thorough discussion as well as deep introspection. The comments and suggestions of all the stake holders have been invaluable to the making of this report.

College is in the process of submitting the Self Study Report for the first cycle of Assessment and Accreditation by NAAC.

It is my privilege to submit the Self Study Report to the National Assessment and Accreditation Council, Bangalore for assessment and accreditation of the institution.

We are eagerly looking forward to hearing from the NAAC team. We are expecting an accreditation that will help the college in moving steps ahead in the quest of excellence.

With thanks and greetings.

Dr. Poonam Verma  
(Principal)

## EXECUTIVE SUMMARY

### *CRITERION I: Curricular Aspects*

SSCBS aims to impart quality education in the fields of management and computer sciences. Our mission and vision charges us to strive to provide a conducive learning environment and equip our students with not only academic knowledge, but support their inter-personal growth as well, enabling them to become better corporate denizens and productive citizens of our society.

The college offers the following courses:

1. Bachelor of Business Studies (BBS)
2. Bachelor of Financial and Investment Analysis (BFIA)
3. Bachelor of Management Studies (BMS)
4. B.Sc. (Hons.) Computer Science
5. B.Tech. Computer Science

The college (a premier under-graduate college for management) is a constituent college of the University of Delhi (an august university of national and international repute) and as such, adheres to university guidelines in terms of course syllabus and other rules and guidelines.

However, our faculty, students, administrative staff and our DNA coalesce together to provide a unique, challenging and educating learning environment for our students. Be it the blend of conceptual and practical learning imbibed within the classroom, be it the numerous student societies that provide a wholesome outlet for the creativity of the students, be it the value-add learning in terms of Entrepreneurship and Employability Skill (Building) sessions by industry practitioners, student industry interaction via industry visits, guest lectures and pre-placement talks, workshops, compulsory summer internships (for 2<sup>nd</sup> year students) and case study based teaching, be it the strong participation by the students in events such as quizzes, debates, competitions and ENACTUS or be it the superb support network in terms of computing facilities, a well-stocked library, ICT enabled teaching and learning, SSCBS provides numerous opportunities for the effective advancement of the students' knowledge and capabilities. Strong compliance with anti-ragging and anti-discrimination rules ensures a level playing field and inclusive growth for all the students.

This growth is not restricted to the students only. The college actively encourages its faculty capital to grow and develop itself in order to become ever more capable transmitters of knowledge to the students. Faculty workshops, FDP's, research support and ICT facilities help the faculty in this endeavour.

Management (education) in the corporate context presages a thorough grounding in terms of relevant non-academic exposure and support mechanisms. The Career Development Cell, the alumni network, corporate themed and linked events like Convergence (annual corporate convention) and Confluence (annual business themed student event), research projects (Innovation Project at DU) and live research and academic projects and active placement support help the students emerge as ready-to-go corporate professionals. CSR activities in terms of recycling, environmental consciousness and social participation alongwith Industry linked certifications such as NSE Certified Capital markets Professional (NCCMP) and special classes for Tally and SPSS application softwares help further this.

Feedback from the stakeholders is collected regularly and utilised to enhance the learning offerings of the college and make them more relevant.

#### *CRITERION II: Learning and Evaluation*

Being a part of the University of Delhi, the college follows all the rules and guidelines laid down by the university with regard to the admission of students in each new academic year. For the Department of Management Studies (running the BBS, BFIA and BMS courses), the admission process is based on a written aptitude test (for more than 15,000 candidates) conducted by the Faculty of Applied Social Sciences and Humanities (FASSH), University of Delhi. The entrance test and marks secured in the Class XII<sup>th</sup> exams contribute a weightage of 50% each towards the final scores used for determining the merit order/list. The Department of Computer Science considers only Class XII<sup>th</sup> scores and prepares a merit list based on the same. Details related to the merit lists and other admission related procedures and formalities are available on the University, department and college websites and college notice board in a timely manner. As is right, the admissions are done via a completely transparent and merit based process.

The college strives to incorporate diversity as best as possible. Government of India and University of Delhi norms w.r.t. admission of SC, ST, OBC, differently abled, children of war widows and Foreign Nationals are strictly adhered to. A general orientation is conducted at the start of the academic session to familiarise the new students with the college. Close attention is paid to ensure that the students and staff are sensitised to the different needs of the students of SSCBS. Anti-harassment and social awareness and sensitivity are emphasized upon. In an attempt to bring these students from diverse backgrounds at an equal footing, various support activities such as skills related remedial courses, care to

address the needs of slow learners and scholarship assistance via scholarship programs from organizations like KPMG are provided on a need basis.

The merit based admission process is supported and enhanced by excellent teaching quality and capable faculty resources. The Internal Quality Assurance Cell (IQAC) looks after aspects related to teaching quality, while numerous faculty support initiatives help enhance the faculty capital.

The college emphasizes wholesome learning via case studies, presentations, skill sessions for Entrepreneurship and Employability Skills, innovation projects (by DU) and expressions of creativity that the numerous societies provide for the students. The Department of Computer Science scales this up through the use of e-resources and practical software usage. A well-stocked and e-enabled library aids this.

Academic excellence is at the forefront of all SSCBS activities and emphasis on transparent internal assessment (with marks for class participation, tests, class assignments and attendance) helps support this. Regular feedback from the students is also taken in due consideration.

Faculty development is encouraged through participation in seminars, workshops and trainings. The college even sponsors these in line with University of Delhi rules. DU provides a lot of opportunities in this regard (the faculty members are actively encouraged to avail of the same) and the college even organizes some such events in-house as well. So far, four SSCBS faculty members have received the Best Teacher Award from the Directorate of Education, NCT of Delhi.

Excellent teaching quality and faculty development have given SSCBS a favourable reputation amongst the corporates as is evident by the numerous placement opportunities provided to SSCBS students. In 2013-14 for example, SSCBS students received a total of 162 offers from 33 leading companies.

### *CRITERION III: Research, Consultancy and Extension*

Management research is an important component for the growth of skills, knowledge and capabilities. Imbibing an approach towards and an understanding of research in the students at the under-graduate level will only help the students further in their chosen careers. Involvement of the faculty in research helps in their development as a faculty.

As such, SSCBS lays great emphasis on research related activities. From support and encouragement mechanisms for faculty members, to encouraging students and faculty members to collaborate for research, to having an active library infrastructure, to substantive participation in DU Innovation projects, to student

entrepreneurial and development activities and to the use of cases and other research related tools in the classroom, research related activities find a lot of support at SSCBS.

The college library provides ample facilities to support research activities, providing books, e-resources and access to research related facilities such as databases, reports and journals.

SSCBS family members have brought laurels to the college in many ways. The college has received ₹ 17 lakhs as funding from the DU for the five innovation projects that it is involved in. Faculty members have published 184 research papers, articles etc. (7 articles are written jointly by students and faculty), 5 books and 11 chapters in books. Till 2014, 10 faculty members have been granted study leave for doing research. Many students have been recognized at the national and international stage by leading companies like Nokia, Samsung, Microsoft and Google for their contributions towards apps and software development among other things. In 2013, one student won a 7 day all expenses paid education trip to The Institutions of European Union in Brussels, Belgium at an IIT Kanpur and Delegation of European Union event.

In order to allow for easier dissemination of research temperament, the college regularly holds workshops, seminars and conferences for both students and faculty. These workshops cover a diverse set of topics. These are, in turn, supplanted by the events and activities that many of the college societies host on a regular basis throughout the year. Events are linked to topics and current relevance and while events like Convergence and Synergy bring the corporate and academic world a bit closer, those like Confluence, Ecognosis (Economics), Excelsior (Marketing) and Sanganak (IT) provide space for the students to participate (via B-plan competitions, in-depth business simulations and case study development etc.), grow and learn.

Practical orientation and social understanding are equally important for the managers of the future and SSCBS strives hard to provide opportunities to the students for growth in this direction.

The future managers at SSCBS discharge their duties towards the society by being actively involved in various social upliftment projects like Akshar (recycling paper and producing notebooks), Sanitation Solutions (for womenfolk across rural India) and Gramoddhar (adopting a village for development). Kartavya, the social service forum of SSCBS holds camps and creates awareness (Verve, the street play society does similar work) for concepts like blood donation, cleanliness, health awareness and collection drives for old clothes, woolens and books. SSCBS students have done great work with Enactus (Entrepreneurial Action and

Us), a global initiative for social development activities. Our students represented India at the 2014 Enactus World Cup in China. Support from corporates such as KPMG in the form of scholarships and support for economically weaker students motivates us to further our social commitments. Over the past four years, the college has provided budgetary support of close to ₹ 3.2 lakhs for social activities.

All of these coalesce to provide industry-college-student collaborations. These manifest in the form industry relevant courses and student exchange programs. SSCBS runs a NSE Certified Capital Market Professional (NCCMP) course in collaboration with the National Stock Exchange of India Limited (NSE). The college is a participant in the UKIERI (UK-India Education and Research Initiative), SIP (Student India Programme). Every year about 40 students from UK visit the SSCBS campus. As a part of the exchange program, in the year 2013-14, two second year students got an opportunity to visit UK academic institutions such as Oxford Brookes University and London South Bank University.

These collaborations are important for the growth and development of the students and the institution as a whole.

#### *CRITERION IV: Infrastructure and Learning Resources*

The college campus is a multi-faceted place. It is a focal point for memories for the alumni; it serves as a nurturing space for the current students and may even serve as an attraction point for forthcoming students. A campus usually ends up defining the institution; the classrooms, the facilities therein and the time spent in campus all come together to create a unique experience.

The SSCBS campus is no stranger to this. It has played host to the memories, wishes, desires, triumphs, and tragedies for an entire generation of students. A well-loved place, the campus may not be able to boast much in terms of physical infrastructure, but, it is a buzzing place, running on the energies and enthusiasm of the students, faculty and admin staff, drawing off their love for the college to provide a place where a young undergraduate may enter with temerity but would leave as a well-grounded citizen of tomorrow.

Operating at present out a school building, the college has had to content with numerous challenges in providing a space suitable for quality education which simultaneously has to act as an airport to the soaring creativity, innovativeness and team spirit that defines the SSCBS student. The uniquely Indian characteristic

of making the most of the available resources shines through here and in spades. With active support of the management and the students, the college boasts of a fully networked Wi-Fi campus, ICT tools such as projectors in all classrooms, five up-to-date computer labs, a well-stocked library, rooms for student activities, multi-purpose rooms with audio-visual equipment, ample seating for the faculty, space for a Career Development Cell, full power back-up, space for sports activities such as table-tennis, a canteen, space for social welfare activities, and the gossamer like feeling that there is something special happening within its walls at all times.

In order to ensure smooth functioning of the college infrastructure, great emphasis is laid on maintaining in the same and ensuring that the facilities therein are as relevant to the college and as up-to-date as is possible. The college and the PWD (Delhi Government) have spent over ₹ 17 lakhs through the past five years towards this endeavour.

A library often is the keystone of any academic institution and the library at SSCBS is no exception. From providing a soothing atmosphere conducive to self-paced learning to making knowledge resources available to the SSCBS family, the library at SSCBS is an important component of the college. With the support of an active Library Committee, the library at SSCBS continues to add to its repertoire of e-resources and books. Using KOHA software allows it to manage its resources in an effective manner. In the past four years, the library has invested close to ₹ 18 lakhs in adding and providing access to books, e-resources and periodicals. Being fully networked and e-enabled, the library becomes the access point of the college for e-resources across the DU, India and abroad.

The library enjoys strong learner support with close to 200 using the library on a daily basis. The generous support provided by the library staff helps in research and learning related activities.

In today's world, IT systems are an indispensable component of any academic institution, more so at SSCBS as the world of management can rarely work without IT tools. As we impart knowledge in the fields of management and computer sciences, IT learning and IT infrastructure are an essential ingredient.

SSCBS boasts of superior IT infrastructure, having five computer labs equipped with state-of-the-art computer systems, an integrated Wi-Fi network, three servers and LCD projectors in every classroom and multi-purpose room. The college also provides laptops to students and faculty members. The college hosts 166 desktops and 499 laptops.

Over the past five years, the college has spent close to ₹ 10 lakhs on procuring and ₹ 8.5 lakhs in maintaining its IT infrastructure.

The college strongly encourages the use of ICT in learning by both the students and its faculty members.

The college takes pride in being able to provide a decent campus environment to its members and invests heavily to keep everything ship-shape and working effectively. Over a five year period, the college has spent over ₹ 88 lakhs in the augmentation and upkeep of its infrastructural systems.

A better horizon is beckoning though. After a long wait, the college is finally on the cusp of shifting to a new, purpose built building at Sector 16, Rohini. Spread over 5 acres, our new campus would incorporate all the latest amenities and facilities including hostels, auditoriums, amphitheatre, sports facilities (indoor and outdoor), a yoga room, a large library area, staff accommodation, central air-conditioning and much more. Designed keeping current environmental concepts such as water harvesting, energy efficiency and environment friendly building standards in mind, this campus would herald a bold new phase for SSCBS. This building would serve as a resource enabler and multiplier, allowing us to raise the bar a bit higher in terms of student services and academic learning. If all goes to plan, we should be transitioning to our new campus in time for the start of the 2016-17 academic session.

#### *CRITERION V: Student Support and Progression*

Student support and management are the *raison d'etre* of SSCBS. It may sound a trifle cheesy, but without students, an academic institution is simply a pile of bricks and a collection of buildings. Secondly, like a parent, the college has a fiduciary responsibility towards its students. On the path to helping them become effective citizens of tomorrow, the college needs to provide hand holding as well as these teenagers grope their way into adulthood. The college is responsible for not only their academic development but their psychological and physical development as well. This is a grave duty, one which the college embraces willingly.

In today's diversity conscious world and in the context of India, with its sometimes stark differences, it becomes doubly important for students to be able to not only embrace, but flourish in this diversity. Under the equal opportunity thought, the college provides many avenues through which students from diverse backgrounds can come together and work effectively as a team.

Some initiatives include supporting the financial and related needs of students from the economically weaker sections, assisting overseas students, enrolling the

students through the DU Health System at the WUS and encouraging the students to participate in many competitive events for their wholesome development.

Entrepreneurship is one facet where great emphasis is laid. Being a valuable resource in both management and computer science disciplines, SSCBS actively encourages and endeavours to support its students to become entrepreneurs and innovative thinkers. Societies like YUVA (Entrepreneurship), Enactus, and Kartavya (Social welfare society) help channelize the energies of the students towards entrepreneurial and socially relevant causes.

SSCBS students have had launched and are successfully running seventeen start-ups covering areas as diverse as consulting, e-commerce, research, travel, marketing, apparel and automobiles.

We believe that a socially aware manager is likely to be a more wholesome manager. Working on these projects, the students learn valuable lessons in leadership, team work and social impact.

Student societies form an important part of SSCBS life, providing students with an outlet for their creativity and facilitating their development. SSCBS has over twenty societies/clubs that organise cultural, business, social and sports events and competitions throughout the year. The college encourages students to participate in these societies by providing monetary, infrastructural and faculty support. These societies have brought numerous laurels and recognition to the SSCBS family. In the last five years or so, close to seventy individual and team awards in national and international competitions have been bagged by SSCBS students.

It is not just that SSCBS is all play and no work. A rigorous academic program characterises the SSCBS experience. SSCBS students are grounded in both theory and practice. Course work, team based class exercises, tests and other evaluative criteria are utilised to ensure that SSCBS students come out on top when it comes to their academic performance. Over the previous five year period, 95.6% of students have been promoted to the next academic session. Case studies, workshops and summer internships supplement the academic learning.

Research activities are also given due importance and this is attested by the fact that our students have even published their research in reputable national and international journals.

Supplementary learning in the form of sessions for Entrepreneurship and Advanced Employability Skills and interactions with various senior industry leaders and practitioners helps our students acquire a better grasp of the corporate world that they would soon be entering.

Such an approach allows our students to hit the (corporate) road running. The Career Development Cell (CDC) at SSCBS helps the students further their prospects in the corporate world. Like a parent, we feel that it is our duty to try and help our students further their careers in as best a way as possible. SSCBS was the first undergraduate college under the University of Delhi to have a full-fledged placement cell headed by a placement officer looking after provisions of final placements, internships and providing industry student interface. Companies from fifteen different sectors that include marketing, consulting, banking, real estate, shipping, insurance, media, IT, knowledge research offer a diverse mix of profiles that include strategic consulting associates, business analyst, equity and research oriented positions.

In the previous placement cycle (2013-14), 162 offers were received from 33 companies with packages reaching a high of ₹ 10 lakhs and an average of about ₹ 5.5 lakhs. Industry leaders such as Bain Capability Center, Reckitt Benkiser, KPMG, Ernst & Young, American Express, CBRE, DE Shaw, UBS Verity, Google India, Nomura, Aon Hewitt, Bloomberg, Baring PE, Boston Consulting Group, SAP, McKinsey Knowledge Centre, Jones Lang LaSalle, Viacom 18, HCL and DLF to name a few have regularly visited for campus placements. Over the past five year cycle, 656 offers were made to SSCBS students, translating to an average of about 78%. Year-on-year steady growth has been achieved and we shall strive to ensure that this trend continues its upward march.

Our association does not end once the student leaves the campus. A vibrant alumni network keeps us in touch with our flock and they in turn help us in nurturing the forthcoming generations of SSCBS students. Feedback, support, talks, guest lectures, placement support, the alumni connect is a cherished part of life at SSCBS.

#### *CRITERION VI: Governance, Leadership and Management*

Leaders and leadership define an organization. They help set out its future direction, provide ways with which it can strive to reach its full potential and help nurture the organization. In an academic institution where the citizens of the future are being groomed, effective leadership is the oxygen and nourishment that enables it to fulfil its sacred duty.

We at SSCBS have been very fortunate to have had good leaders, with a dynamic and far reaching vision that has brought SSCBS to the place that it is now at.

Our vision is to create a centre of excellence for learning, dedicated to meet the aspirations of the society and our mission is to explore new frontiers of knowledge so as to nurture value driven, socially responsive, committed and ethical citizens of the globe.

These get translated into goals such as providing a learning and teaching environment to prepare responsive and ethical managers, technocrats, entrepreneurs and researchers, developing decision making skills and administrative competence of our students and teachers through innovative and cutting edge education and research and establishing linkages with industry and academia fostering leadership in quality education, research and consultancy.

The Principal and the Governing Body are the twin foundations on which the college rests. The Governing Body is, fortunately for us, composed of individuals who are aware of the demands that an academic institution may have in terms of resources, faculty development and student needs. They strive hard to help the SSCBS family realise its full potential. They have combined reason with effectiveness, financial resources with efficient utilization and democracy with adherence to academic quality standards.

Our new campus is the result of tireless efforts put in by the management functions of the college and is fitting with our vision of providing academic excellence (and a campus that provides space for the same).

Faculty meetings and committees bring us all closer and provide a platform for us to be able to work towards raising the standards of our activities (adhering to the *kaizen* philosophy) in an effective and sustainable manner. The teachers-in-charge of the Departments of Management and Computer Science, the Principal and the Governing Body work in tandem to ensure that the college functions in a smooth manner and provides a supportive learning environment for the students.

There is a culture of participative management and the individual (administrative and faculty) cogs have lots of freedom to decide the best course of action and implement the same. An effective and strong staff council sees to it that we all are in tune with the overall vision of the college and that important decisions are taken in a manner that takes into account the perspectives of all the stakeholders, thus allowing for sustainability and a culture of mutual respect, support and understanding.

This is true of the student societies as well. These societies are staffed, run and improved upon by the students themselves.

A grievance redressal mechanism and regular suggestions and feedback are utilised to try and remove the gremlins in our day-to-day operations and well as the path to the future. Student feedback is seen as invaluable in our constant quest to upgrade and update our offerings. The student feedback is collected by the structured and confidential mechanism of an online feedback form. Perceptual feedback is collected through the regular meetings that take place between the Principal, the teachers-in-charge and class representatives. The college collects

and utilises student feedback to try and ensure maximum satisfaction for the students

Faculty members are supported in their activities, growth and development through various mechanisms. Encouragement, facilities and support for research activities, ICT support in the classrooms, administrative support and rigorously enforced standards help the faculty work towards providing quality academic and knowledge based learning to the students.

The recently started Internal Quality Assurance Cell (IQAC) is going to help the college in its endeavour of providing high quality education to our students. The quality assurance policies, mechanisms and outcomes are communicated to various internal and external stakeholders through college prospectus, notice board, information bulletin, print media and college and university websites.

#### *CRITERION VII: Innovations and Best Practices*

Innovations and best practices are the capabilities that help separate the wheat from the chaff. At SSCBS, innovations and best practices are visible not only in our academic activities and practices, but in other related fields such as placements, equipping our students with the skills to be better citizens of the future, student societies, student-institution-corporate linkages and the very way in which the college is run.

Transparency is a best practice that is much promoted and is in use at SSCBS. E-enablement has assisted transparency and efficiency in a big way and we have embraced the same as well. From an online attendance management system to filling examination forms online, to online student feedback forms and to information sharing, the SSCBS family has access to relevant info at just a few clicks of a button.

Innovations are supported in the various student societies and the Innovation projects (five) of the University of Delhi that the college is involved in. These projects have and are helping our students understand the practical implementation of their learning in the classrooms and they are gaining valuable insights into working in the real life, meeting challenges, supporting and helping people and providing data that can be utilised for betterment.

Holistic development of the students is a priority at SSCBS and judiciously using a mix of academically oriented activities, entrepreneurship oriented activities, performing arts and visual arts societies, industry interaction, socially responsible

activities, sports and literary activities the college manages to provide a holistic learning experience for our students.

Contribution to institutional objectives in the form of innovative themes for year-round events calendar, event management skills, soft skills, student' participation in and organization of inter-college events, campus placements and success of the students in terms the large number of prizes they've won helps us look on our work with some amount of judicial pride as we see some of the efforts that we've put in show fruit in the success of our students.

Management and Computer Science are the new frontiers and information has been the key to success in today's day and age. Use of technology in receiving, processing and disseminating information is doing wonders in the contemporary world. Our college strives to make use of technology to its optimum so as to adopt a transparent and effective system for imparting information and knowledge.

An interactive website, KOHA enabled library, web based system for timetable, attendance, feedback, internal assessment marks and a system through which alumnus can interact with current students are some of the tools with which we try and provide access to information in an easy-to-use and effective manner.

## PROFILE OF THE COLLEGE

### SECTION B: PREPARATION OF SELF-STUDY REPORT

#### 1. Profile of the Affiliated / Constituent College

##### 1. Name and Address of the College:

Name :	Shaheeh Sukhdev College of Business Studies	
Address :	Vivek Vihar, Jhilmil Colony	
City :	Pin : 110095	State : Delhi
Website :	<a href="http://www.sscbsdu.ac.in">http://www.sscbsdu.ac.in</a>	

##### 2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. Poonam Verma	O: 011-22154581	9810508371	011-22159941	<a href="mailto:cbs@sscbsdu.ac.in">cbs@sscbsdu.ac.in</a>
Vice Principal	N/A	O: R:			
Steering Committee Co-ordinator	Dr. Hamender Kumar Porwal	O: 011-22154581 R:	9868325927		<a href="mailto:Naac_ssr@sscbsdu.ac.in">Naac_ssr@sscbsdu.ac.in</a>

##### 3. Status of the Institution:

Affiliated College  
Constituent College  
Any other (specify)

√

##### 4. Type of Institution:

###### a. By Gender

- i For Men
- ii For Women
- iii Co-education

√

b. By Shift

- i Regular
- ii Day
- iii Evening

√

5. It is a recognized minority institution?

- Yes
- No

√

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

NA
----

6. Sources of Funding:

- Government
- Grant-in-aid
- Self-financing
- Any other

√

- 7. a. Date of establishment of the college: ...03/081987...(dd/mm/yyyy)
- b. University to which the college is affiliated/or which govern the college (if it is a constitute college)

University of Delhi
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c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i. 2(f)	22-07-1993	
ii. 12(B)	22-07-1993	

(Enclose the Certificate of recognition u/s 2(f) and 12(B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ clause	Recognition/ Approval details Institution / Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.				
ii.				
iii.				
iv.				

(Enclose the recognition/approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes  No

If yes, has the college applied for availing the autonomous status?

Yes  No

9. Is the college recognized

a. by UGC as a College with Potential for Excellence(CPE)?

Yes  No

If yes, date of recognition ..... (dd/mm/yyyy)

b. for its performance by any other governmental agency?

Yes  No

If yes, Name of the agency.....and

Date of recognition :.....(dd/mm/yyyy)

10. Location of the campus and area in sq.mts:

Location*	Urban
Campus area in sq.mts.	8296.056 sq.mts
Built up area in sq.mts.	4821.09sq.mts

(\*Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/ seminar complex with infrastructural facilities

- Sports facilities Not Available

\* play ground

\* swimming pool

\* gymnasium

- Hostel

\* Boy's hostel Not Available

i. Number of hostels

ii. Number of inmates

iii. Facilities (mention available facilities)

\* Girls' hostel Not Available

- i. Number of hostels
  - ii. Number of inmates
  - iii. Facilities (mention available facilities)
- \* Working women's hostel                      Not Available
  - i. Number of inmates
  - ii. Facilities (mention available facilities)
- Residential facilities for teaching and non-teaching staff (give numbers available cadre wise)                      Not Available
- Cafeteria –                      Available
- Health centre –                      Not Available
- First aid, Inpatient, Outpatient, Emergency care facility, Ambulance                      N/A
- Health centre staff –
 

Qualified doctor	Full time	<input type="text" value="No"/>	Part-time	<input type="text" value="No"/>
Qualified Nurse	Full time	<input type="text" value="No"/>	Part-time	<input type="text" value="No"/>
- Facilities like banking, post office, book shops                      No
- Transport facilities to cater to the needs of students and staff                      Yes
- Animal house                      N/A
- Biological waste disposal                      N/A
- Generator or other facility for management/regulation of electricity and voltage                      Yes  
(Full Power backup available with three generators)
- Solid waste management facility                      N/A
- Waste water management                      N/A
- Water harvesting                      N/A

12. Details of programmes offered by the college (Give data for current academic year)

Sl No	Program Level	Name of the Programme/ Course	Durati on	Entr y Qual ifica tion	Mediu m of instruct ion	Sancti oned /appro ved Stude nt strengt h	No. of studen ts admitt ed
	Under- Graduate	1.Bachelor of Business Studies	3 Years	XII	English	185	196
		2.Bachelor in Finance and Investment Analysis	3 Years	XII	English	62	69
		3.Bachelor in Computer Science	3 Years	XII	English	45	57
	Post- Graduate	N/A	N/A	N/A	N/A	N/A	N/A
	Integrate d Program mes PG	N/A	N/A	N/A	N/A	N/A	N/A
	Ph.D	N/A	N/A	N/A	N/A	N/A	N/A
	M.Phil.	N/A	N/A	N/A	N/A	N/A	N/A
	Ph.D	N/A	N/A	N/A	N/A	N/A	N/A
	Certifica te courses	N/A	N/A	N/A	N/A	N/A	N/A
	UG Diploma	N/A	N/A	N/A	N/A	N/A	N/A
	Pg Diploma	N/A	N/A	N/A	N/A	N/A	N/A

	Any other (specify and provide details)	N/A	N/A	N/A	N/A	N/A	N/A
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13. Does the college offer self-financed Programmes?

Yes  No \*

\*However the college offers one self financed value added certificate course- NCCMP

If yes, how many?

14. New programmes introduced in the college during the last five years if any?

Yes	√	No		Number	3
-----	---	----	--	--------	---

Under Graduate - Certificate course NCCMP, BMS, B.TECH

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
Science	Computer Science	√		
Arts				
Commerce				
Any other (Specify)	Management Studies	√		

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)

a. annual system

Nil

- b. semester system 

5
---
- c. trimester system 

Nil
-----

17. Number of Programmes with

- a. Choice Based Credit System 

Nil
-----
- b. Inter/Multidisciplinary Approach 

5
---
- c. Any other (specify and provide details) 

Nil
-----

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes  No

If yes,

- a. Year of Introduction of the programme(s)..... (dd/mm/yyyy) and number of batches that completed the programme
- b. NCTE recognition details (if applicable)

Notification No.: .....

Date: ..... (dd/mm/yyyy)

Validity: .....

- c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

Yes  No

19. Does the college offer UG or PG programme in Physical Education?

Yes  No

If yes,

- a. Year of Introduction of the programme(s) .....(dd/mm/yyyy) and number of batches that completed the programme

- b. NCTE recognition details (if applicable)

Notification No.: .....

Date: ..... (dd/mm/yyyy)

Validity: .....

- c. Is the institution opting for assessment and accreditation of Physical Education programme separately?

Yes  No

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Principal		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government Recruited		01	02	07	13	13	32	04	06	02
Yet to recruit						9				
Sanctioned by the management / society or other authorized bodies Recruited										
Yet to recruit										

\*M-Male \*F-Female

21. Qualification of the teaching staff:

Highest qualification	Principal		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph.D.		1	2	4	5	6	18
M.Phil.				1	2	3	6
PG				2	6	4	12
Temporary teachers							
Ph.D.						1	1
M.Phil.							
PG						1	1
Part-time teachers							
Ph.D.							

M.Phil.							
PG							

22. Number of Visiting Faculty /Guest Faculty engaged with the College.

23
----

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	2011-12		2012-13		2013-14		2014-15	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	30	19	29	17	56	30	42	12
ST	8	6	13	9	13	12	14	4
OBC	14	12	47	28	57	36	53	21
General	88	103	85	66	228	104	95	63
Others(incl. Foreign Students)	15	8	18	6	33	10	16	2

24. Details on students enrollment in the college during the current academic year: (2014-15)

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is	259				259
Students from other states of	61				61
NRI students	0				0
Foreign students	2				2
Total	322				322

25. Dropout rate in UG and PG (last 2 batches)

	2010-2013	2011-2014
BBS	11.00%	18.78%
BSC	16.67%	20.63%
BFIA	7.46%	27.54%

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component

₹ 54871.74

(b) excluding the salary component

₹ 7072.23

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes  No

If yes,

a) is it a registered centre for offering distance education programmes of another university

Yes  No

b) Name of the University which has granted such registration.

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes  No

28. Provide Teacher-student ratio for each of the programme/course offered

Department of Management Studies: 1:20

Department of Computer Science: 1:19

29. Is the college applying for

Accreditation: Cycle 1  Cycle 2

Cycle 3  Cycle 4

Re-Assessment:

**(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re-accreditation)**

30. Date of accreditation\* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1: .....(dd/mm/yyyy) Accreditation Outcome/Result.....

Cycle 2: .....(dd/mm/yyyy) Accreditation Outcome/Result.....

Cycle 3: .....(dd/mm/yyyy) Accreditation Outcome/Result.....

**\* Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.**

31. Number of working days during the last academic year.

249 Days

32. Number of teaching days during the last academic year  
(Teaching days means days on which lectures were engaged excluding the examination days)

191 Days

33. Date of establishment of Internal Quality Assurance Cell (IQAC)  
IQAC .....19/12/2014.....(dd/mm/yyyy)

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

**Not Applicable**

AQAR (i) .....(dd/mm/yyyy)

AQAR (ii).....(dd/mm/yyyy)

AQAR (iii).....(dd/mm/yyyy)

AQAR (iv).....(dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

- SSCBS has been consistently ranked no.1 choice/preference college among the colleges offering Bachelor of Business Studies course.
- SSCBS is the only Under-graduate college in the University of Delhi to have a sanctioned and approved post of Placement Officer.



## CRITERION I: Curricular Aspects

### 1.1 Curriculum Planning and Implementation

**1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.**

#### **Vision**

To create a centre of excellence for learning, dedicated to meet the aspirations of society

#### **Mission**

To explore new frontiers of knowledge so as to nurture value driven, socially responsive, committed and ethical citizens of the world

#### **Objectives**

- To provide a learning and teaching environment for preparing responsive and ethical managers, technocrats, entrepreneurs and researchers.
- To develop and enhance the decision making skills and administrative competence in our students and teachers through innovative and cutting-edge education and research.
- To establish linkages between industry and academia for fostering leadership in quality education, research and consultancy.

**1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).**

*Facilitation of Curriculum Implementation through Meticulous Scheduling and Work Allocation:* The college ensures maintenance of academic and professional discipline in its day-to-day functioning.

- The college adheres to the syllabus designed by University of Delhi.
- The faculty enriches the curriculum with their own expertise and experience bridge the gap between theory and practice.
- Students are given special exposure to pre-placement training and soft-skill development programmes.
- All management students are also required to undergo a **six to eight week summer internship** at the end of their 2nd year.
- Entrepreneur sessions are held to equip our students with entrepreneurial knowledge and skills.
- Employability Skill Session (ESS) / Advance Employability Skill Session (AESS) are held with the objective of imparting additional skills relevant to employment markets.

- YUVA, the Entrepreneurship Cell promotes a spirit of entrepreneurship and innovation through internship/projects with entrepreneurs.
- Case studies form an important part of the pedagogy.
- Special add-on courses and workshops have been held by the college for application softwares such as TALLY, SAS and SPSS.
- Knowledge and Research Cell (KRC) provides research exposure to students in the functional areas of management.

### **1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?**

Following procedural and practical support is provided by the institution and University for effective translation of the curriculum and improving teaching practices:

#### **i) Infrastructural and Administrative support:**

The institution provides all the basic infrastructural support in terms of classrooms, library, computer labs, audio-visual rooms, conference room, and faculty staff room. Besides this, all classrooms are equipped with LCD projection systems and white boards. These facilities enhance quality of lecture delivery and make communication effective. The campus is fully Wi-Fi networked.

Budgetary and administrative support related to procurement of equipment and components enhance the quality of labs and teaching aids.

#### **ii) Computing facilities:**

- **University support** – University has provided a central connected University server through which we have access to software like SPSS, Mathematica, Capitaline, and MATLAB. It also provides access to online journals and e-books.

The University has developed a portal which includes the course curriculum, syllabus, notices and other official details.

- **In-house facilities** – The College has five computer labs with large number of terminals which work on Windows and Linux platforms. The college library manages its holdings i.e. Books, Periodicals, Newspapers using the Open Source Integrated Library Management System – KOHA. It supports reservation of library resources, file management, patron management and printing of bar-codes and spine labels. It comes with comprehensive functionality and advanced options and its being used by libraries of all sizes to meet the needs of their user base.

Student attendance record is uploaded monthly on the college website.

Students are encouraged to use the online format for mid semester and end semester feedback

The college website also displays end semester Internal Assessment marks for the students.

**iii) Teachers Support and Faculty Development Programme:**

The University and college conduct various FDPs from time to time both at college and departmental level for upgrading the knowledge and skills of faculty members as per current trends in management and information technology. Facilities of LCD projectors, laptops, audio equipment (microphones, speakers etc.) are available for faculty use and they are encouraged to make full use of the same.

**1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.**

The college is making following special efforts to facilitate effective curriculum delivery and learning:

**Student centric initiatives**

- An interface between the college and Industry is maintained through guest lectures delivered by corporate leaders. This is to equip our students with entrepreneurial skills.
- All students are also required to undergo a six to eight week summer internship at the end of their fourth semester. This gives the students practical exposure to the corporate world. They are required to submit a project report with a certificate from the industry mentor at the end of their summer internship. A viva-voce validates their learning.
- Entrepreneur sessions are held to equip our students with entrepreneurial knowledge and skills. In these sessions, Industry practitioners and entrepreneurs are invited to interact and share their experiences. They also guide and mentor our students.
- Matching theory and practical exposure is imperative in the world of management. Our faculty strives to utilize relevant case studies – both of national and global relevance – to help our students enhance their understanding of various concepts and apply this knowledge.
- Management training is also experiential in nature. By having industry practitioners interact with our students in theme oriented workshops, we provide a platform through which the students can learn from the experience of these practitioners. Special add-on courses are regularly arranged based on feedback from recruiters, alumni and senior academicians.
- Interaction of industry practitioners with our students in theme-oriented workshops provides a platform through which the students can learn from the experience of these practitioners.

### **Faculty centric initiatives**

- The institution provides all the support to the faculty in preparation and submission of proposals of research projects for availing grants from various organizations.
- The research projects undertaken by faculty members under the Innovation Project Scheme of University of Delhi have been appreciated for their contribution to social and economic development.
- Regular faculty meetings are conducted to arrive at a level of standardization among colleges offering the same course in the University.
- Regular meetings are conducted by the teachers-in-charge with the faculty members to monitor learning and teaching.
- Regular feedback is obtained from the recruiters and alumni for improving curriculum and pedagogy.
- Student council meetings with college authorities are held regularly for taking continuous feedback.
- Detailed syllabus and recommended readings approved by the University are provided to the students. Teaching aids such as LCD projectors, audio systems and microphones are provided in classrooms.

### **1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the University in effective operationalization of the curriculum?**

The college maintains constant interaction with industry, research bodies and the University for effective operationalization of the curriculum in the following ways:

#### **Industry:**

- Industry connect and relevance are very important for the college. Corporate events conducted by the college such as Convergence and Confluence provide a valuable interaction platform for the students and corporate leaders. The Management Interaction Cell of the college organises corporate visits. Placement activities and faculty interaction help bring the academic and corporate world closer.
- The Bachelors Business Administration in Finance and Investment Analysis (BBA-FIA, erstwhile BFIA) course was launched in 1999 and its curriculum was developed by the college based on the feedback received from recruiters, alumni and senior academicians.
- A strong alumni network supplements the student-industry connect.
- Regular feedback is obtained from the recruiters.
- Feedback obtained is analysed by academic development committee which then recommends necessary workshops, add-on courses, special sessions and modifications/additions in the curriculum.

**Research Bodies:**

Faculty research is a matter of pride for the college. Faculty members have been awarded research projects by the Ministry of Finance (Government of India), UGC and under the Innovation Project Scheme of University of Delhi.

Many of them are associated with professional bodies like All India Management Association (AIMA), Delhi Management Association (DMA), Institute of Chartered Accountant of India (ICAI), Institute of Company Secretary of India (ICSI), All India Accounting Association (AIAA) and Computer Society of India (CSI) etc.

The college encourages faculty members to attend conferences, seminars and workshops etc. offered by institutes and professional bodies of national and international repute.

**University:**

The faculty members of the college regularly interact with their counterparts at the University level; sharing latest developments, knowledge, experiences, e-learning practices etc. in the areas of their study.

**1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.).**

The faculty plays an important role in the implementation and enrichment of the prescribed curriculum. The College has highly qualified and dedicated faculty who keep abreast with the latest developments in teaching and research in their area of study.

Many of our teachers are involved in the process of curriculum development at the University level. Members of our faculty are part of the Board of Studies/Committee of Courses and Studies of University of Delhi, University Departmental Committees for curricular planning and syllabi design and are actively engaged in course design, paper setting, evaluation and moderation as well as curriculum development for courses offered by other universities as well.

**1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating University) by it? If “yes”, give details on the process (“Needs Assessment”, design, development and planning) and the courses for which the curriculum has been developed.**

**NSE Certified Capital Market Professional (NCCMP):** NSE Certified Capital Market Professional (NCCMP) course is run in collaboration with the National Stock Exchange of India Limited (NSE) with the objectives to impart knowledge and awareness about the securities market. The curriculum for the 100 hours

course has been designed and developed by SSCBS in consultation with NSE. The faculty of SSCBS along with industry experts deliver the course. Twenty hours of on-line training is an integral part of this program which is offered to the students at Stock Broker's center in real trading environment. To serve the society at large the course is not restricted to SSCBS students rather open to any one who is 12<sup>th</sup> pass. A large number of students in every batch are from other colleges/universities or are working executives which indicates the growing popularity of the course. Since its inception in 2010, five batches have successfully completed this programme.

#### **1.1.8 How does institution analyse/ensure that the stated objectives of curriculum are achieved in the course of implementation?**

Regular feedback is taken from all the stakeholders such as recruiters, the faculty, alumni and current students to assess the extent to which the programme objectives are being met. Need-based workshops, add-on courses and modifications in the curriculum are recommended by the Academic Development Committee.

Curricula development is done via a two-step process; developed by the faculty and approved by the University, and is always done in consultation with the academicians and technical experts selected from industry, keeping in view the requirements of both the industry and society. This enables the graduates of SSCBS to fulfil the demands of the competitive market for employability both at national and international level.

### **1.2 Academic Flexibility**

#### **1.2.1 Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the institution.**

Following are the courses offered by the college:

**NSE Certified Capital Market Professional (NCCMP):** This course is run by Shaheed Sukhdev College of Business Studies jointly with the National Stock Exchange of India Limited (NSE) with the objectives to impart knowledge and awareness about the securities market and thereby upgrade the skills and proficiency of the participants of the course. Since its inception in 2010, five batches have successfully completed this programme

**Special Sessions** – Entrepreneurship sessions, Employability Skill Session (ESS)/Advance Employability Skill Session (AESS) are held with the objective to impart additional skills relevant to employment markets.

**Workshops** – Add-on courses and workshops have been held by the college for application software such as TALLY, SAS and SPSS. In addition to these, Teach India in association with British Council conducts “Certificate Programmes in Spoken English” in the college to enhance verbal communication skills.

**1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If “yes”, give details.**

As a constituent college of the University of Delhi, we follow the University prescribed curriculum. At present, there is no provision for twinning and/or dual degree.

**1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability.**

**Academic Flexibility in the curriculum**

- Electives are offered to the students:
  - Under BBS, a student can choose one elective field among Marketing, Finance and Human Resource Management in the final year.
  - Under B.Sc. (Computer Science) a student has to choose an elective paper from a list of five offered in the final year.

The electives have been incorporated keeping in mind the needs of the industry, thereby, enhancing the employability of the students. The electives also enable students to be eligible for pursuing research and higher professional studies.

**Academic Flexibility in Evaluation**

- There is great flexibility in the modes and methods of student evaluation at SSCBS. Students are assessed through various mechanisms such as group discussions, presentations, written assignments, projects, field trips etc.

An evaluation set-up that incorporates both academic learning and practical capabilities is essential for the overall development of a future managers and technocrats.

**Academic Flexibility in Skill Development**

- Entrepreneurship sessions, Employability Skill Session (ESS)/Advance Employability Skill Session (AESS), Summer Internships, trainings for application software such as TALLY, SAS and SPSS and Case Studies are utilised to impart additional skills relevant to employment markets.

**1.2.4 Does the institution offer self-financed programmes? If “yes”, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.**

**NSE Certified Capital Market Professional (NCCMP):** This course is run by Shaheed Sukhdev College of Business Studies jointly with the National Stock Exchange of India Limited (NSE) as a self-financed course Details are given in Section 3.7.1.

**1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If “yes”, provide details of such programmes and the beneficiaries.**

Following skill development initiatives are undertaken over and above the course curriculum:

**NSE Certified Capital Market Professional (NCCMP):** This course is run by Shaheed Sukhdev College of Business Studies jointly with the National Stock Exchange of India Limited (NSE) with the objectives to impart knowledge and awareness about the securities market and thereby upgrade the skills and proficiency of the participants of the course. Since its inception in 2010, five batches have successfully completed this programme.

**Summer Internship** – All students are also required to undergo a six to eight week summer internship at the end of their fourth semester. This gives the students practical exposure to the corporate world. They are required to submit a project report with a certificate from the industry mentor at the end of the internship. A viva-voce validates their learning.

**Special Sessions** – Entrepreneur sessions are held to equip our students with entrepreneurial knowledge and skills. In these sessions, industry practitioners and entrepreneurs are invited to interact and share their experiences. They also guide and mentor our students. Employability Skill Session (ESS) / Advance Employability Skill Session (AESS) are held with the objective to impart additional skills relevant to employment markets. YUVA, the Entrepreneurship Cell of the college has a primary objective to promote entrepreneurship among young minds by providing a direct interaction with entrepreneurs in the form of internship/projects thereby fostering the spirit of innovation.

**Case Studies** – Supplementing theory and practical exposure is imperative in the world of management and IT. Our faculty strives to utilize relevant case studies of national and global relevance to help our students understand and enhance their understanding of various concepts and apply this knowledge.

**Workshops** – Management training is also experiential in nature. By having industry practitioners interact with our students in theme oriented workshops, we provide a platform through which the students can learn from their experience. Based on feedback from recruiters, alumni and senior academicians, special add-on courses and workshops have been held by the college for application software such as Tally, SAS and SPSS. In addition to these, Teach India in association with British Council conducts “Certificate Programmes in Spoken English” in the college to enhance verbal communication skills.

**Knowledge and Research Cell (KRC)** – It has been developed to give maximum learning exposure to students keeping in mind the industry expectations. KRC involves seeking opportunities and starting initiatives in the following areas:

- Undertaking live projects such as launching a Pan DU Website which aims to act as a platform where students across University of Delhi get to know about

- various industries, the economy and the fundamentals that govern it, strategies and innovations in the market and learn from the knowledge and experience of the best professionals from the industry
- Starting business e-games.
  - Prepare, publish and source research papers.
  - Provide research exposure to students in the areas of marketing, finance, entrepreneurship, leadership, communication, brand management, organizational behavior and human capital management.
  - Efforts directed at arranging fellowships for students with reputed business houses and industry norms
  - Arranging career mentorship

The college organizes “Convergence”, an annual national corporate convention on various contemporary areas of management and information technology of interest and relevance to the students.

**1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If “yes”, how does the institution take advantage of such provision for the benefit of students?**

As a constituent college of the University of Delhi, SSCBS follows the University prescribed curriculum. At present, there is no provision for combining conventional face-to-face and distance modes of education.

**1.3.1 Describe the efforts made by the institution to supplement the University’s Curriculum to ensure that the academic programmes and Institution’s goals and objectives are integrated?**

Being a constituent college of the University of Delhi, SSCBS follows the curriculum as prescribed by the University. The college supplements the University’s curriculum with the following initiatives:

- a) Organising talks by proficient academicians and industrialists.
- b) Conducting workshops, seminars and conferences on topics of contemporary relevance
- c) Mandating Internship
- d) Organising Entrepreneurship sessions
- e) Conduct of Employability Skill Session (ESS) / Advance Employability Skill Session (AESS)
- f) Training in advanced computing
- g) Undertake innovation/research projects
- h) Undertake social outreach programmes

**1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?**

The college adheres to the syllabus designed by the University of Delhi but while delivering this syllabus content to the students, our faculty enriches it with their own expertise and experience to make it more relevant to real life by bridging the gap between theory and practice. In order to have value orientation and to increase the career opportunities the students are given special exposure to pre-placement training and soft skill programmes.

In addition to these, Teach India in association with British Council conducts “Certificate Programmes in Spoken English” in the college to enhance verbal communication skills.

**1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?**

College organises various programmes to integrate cross cutting issues in curriculum through various committees like Equal Opportunity Cell, Committee Against Sexual Harassment (CASH), Anti-Smoking Nodal Officer, Anti Ragging Committee /Disciplinary Committee, Environment related activities under the Kartavya, University of Delhi Model United Nation (DUMUN) Club and workshops on ICT.

Apart from this, the college organizes quizzes, debates and poster competitions on the issues like gender sensitization, climate change, environmental education, human rights, recycling of paper and ICT etc.

Verve, the street play society of the college, has time and again raised issues of social significance through the folk medium of ‘nukkad nataks’. Verve has performed street plays on themes such as 'Whistle-blowing', 'Civic Sense', 'Indifference', 'Political Consciousness and 'Religious Fanaticism' with an alternate perspective and has been lauded for its innovative approach to every-day problems of a common man.

**1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?**

**Special Sessions** – Entrepreneur sessions are held to equip our students with entrepreneurial knowledge and skills. In these sessions Industry practitioners and entrepreneurs are invited to interact and share their experiences. They also guide and mentor our students. Employability Skill Session (ESS) / Advance Employability Skill Session (AESS) are held with the objective to impart additional skills relevant to employment markets. YUVA, the Entrepreneurship Cell of the college has a primary objective to promote entrepreneurship among

young minds by providing a direct interaction in the form of internship/projects with entrepreneurs thereby fostering the spirit of innovation.

**Case Studies** – Matching theory and practical exposure is imperative in the world of management. Our faculty strives to utilize relevant case studies of national and global relevance to help our students understand and enhance their understanding of various concepts and apply this knowledge.

**Workshops** – Management training is also experiential in nature. By having industry practitioners interact with our students in theme oriented workshops, we provide a platform through which the students can learn from their experience. Based on feedback from recruiters, alumni and senior academicians, special add-on courses and workshops have been held by the college for application software such as TALLY, SAS and SPSS. In addition to these, Teach India in association with British Council conducts “Certificate Programmes in Spoken English” in the college to enhance verbal communication skills.

**Knowledge and Research Cell (KRC)** – It has been developed to give maximum learning exposure to students keeping in mind the industry expectations. KRC involves seeking opportunities and starting initiatives in the following areas:

- Undertaking live projects eg. Launching a Pan DU Website which aims to act as a platform where students across University of Delhi get to know about various industries, the economy and the fundamentals that govern it, strategies and innovations in the market and learn from the knowledge and experience of the best professionals from the industry
- Starting business e-games.
- Prepare, publish and source research papers.
- Provide research exposure to students in the areas of marketing, finance, entrepreneurship, leadership, communication, brand management, organizational behavior and human capital management.
- Efforts directed at arranging fellowships for students with reputed business houses and industry norms
- Arranging career mentorship

The students are provided with a platform to imbibe life skills like team building, conflict management, stress management and leadership by encouraging them to organise and participate in various activities/events of the student societies.

Frequent industrial visits are organised to provide hands-on practical exposure to students.

### **1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?**

The institution collects feedback from the stakeholders in enriching the curriculum in the following manner:

- Regular feedback is obtained from the recruiters and alumni for improving curriculum and teaching pedagogy.
- Student council meetings with college authorities are held regularly for taking continuous feedback. Formal feedback from the students is collected twice every semester – mid-semester and at the end of the semester.
- Based on industry and alumni feedback, the Knowledge and Research Cell (KRC) has been designed to give maximum learning exposure to students keeping in mind the industry expectations. KRC involves seeking opportunities and starting initiatives in the following areas:
  - Undertaking live projects
  - Starting business e-games
  - Prepare, publish and source research papers
  - Provide research exposure to students in the areas of marketing, finance, entrepreneurship, leadership, communication, brand management, organizational behavior and human capital management.
  - Efforts directed at arranging fellowships for students with reputed business houses and industry norms
  - Arranging career mentorship

### **1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?**

The institution has a very clear and transparent way to monitor and evaluate the quality of various enrichment programmes initiated by it. The feedback process focuses on content coverage, resource persons and delivery mechanism. The Feedback then used to suggest areas for improvement in the programme.

Regular Staff Council and departmental meetings are held to monitor work, take stock of the quality enrichment efforts and make concrete suggestions for new steps that can be taken.

## **1.4 Feedback System**

### **1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?**

The college is constituent of University of Delhi and follows the syllabus prescribed by the same. The syllabus undergoes modification from time to time in line with technological advancements and industry development as per University provisions.

The college has an academic development committee which takes regular feedback from the recruiters, alumni, senior academicians and recommends necessary workshop, add-on courses, special sessions and modifications/additions in the curriculum.

Many of our teachers are actively involved with the process of curriculum development at the University level. Members of our faculty are part of the Board of Studies/Committee of Courses and Studies of the University of Delhi, University Departmental Committees for curricular planning and syllabi design and are actively engaged under the purview of the University in course design, paper setting, evaluation and moderation as well as developing curriculum for courses offered by universities other than University of Delhi.

**1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If “yes”, how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/ new programmes?**

The college collects feedback from the stakeholders in the following manner:

- Regular feedback is obtained from the recruiters and alumni for improving curriculum and teaching pedagogy.
- Student council meetings with college authorities are held regularly for taking continuous feedback. Formal Students’ feedback is collected twice every semester- mid-semester and end semester.

Feedback has been utilised as follows:

- After receiving recruiters’ feedback and suggestions for the need of a finance focussed undergraduate programme, the college started the Bachelors of Finance and Investment Analysis (BFIA) course in 1999. The BFIA curriculum was developed by the College and approved by University of Delhi. Since inception, the course has undergone three curriculum revisions based on feedback from recruiters, alumni and senior academicians.
- Need for a formal mechanism for promoting student research was felt and the Knowledge and Research Cell (KRC) was set up.
  - It has been designed to give maximum learning exposure to students keeping in mind the industry expectations. KRC involves seeking opportunities and starting initiatives in the following areas:
  - Undertaking live projects e.g. Launching a Pan DU Website which aims to act as a platform where students across the University of Delhi get to know about various industries, the economy and the fundamentals that govern it, strategies and innovations in the market and learn from the knowledge and experience of the best professionals from the industry
  - Starting business e-games
  - Prepare, publish and source research papers
  - Provide research exposure to students in the areas of marketing, finance, entrepreneurship, leadership, communication, brand management, organizational behavior and human capital management.

- Efforts directed at arranging fellowships for students with reputed business houses and industry norms
- Arranging career mentorship

**1.4.3 How many new programmes/courses were introduced by the institution during last four years? What was the rationale for introducing new courses/programmes?**

**1. NSE Certified Capital Market Professional (NCCMP):** This course is run by Shaheed Sukhdev College of Business Studies jointly with the National Stock Exchange of India Limited (NSE) with the objectives to impart knowledge and awareness about the securities market and thereby upgrade the skills and proficiency of the participants of the course. Since its inception in 2010, five batches have successfully completed this programme

**2. BMS (Bachelor of Management Studies)**

A four year duration programme was launched in 2013 by the University of Delhi under the FYUP scheme.

**3. B.Tech (Bachelor of Technology)**

A four year duration programme was launched in 2013 by the University of Delhi under the FYUP scheme.

## CRITERION II: Teaching – Learning and Evaluation

### 2.1 Student Enrolment and Profile

#### 2.1.1 How does the college ensure publicity and transparency in the admission process?

##### For BBS, BFIA and BMS Admissions

- Admission process and criteria is clearly given and available on the college website (<http://www.sscbsdu.ac.in>). The same is also advertised through the national dailies. Due publicity is given by University of Delhi through their website and press releases.
- The entire admission process is computerized. Applications are received online. The college information bulletin is available on the college website.
- The students are admitted through an entrance test, interview and group discussion.
- The candidates are allowed to take back the question paper. After the entrance test, the question paper and the answer key are uploaded on the college and department website.
- The list of students who qualify in the written test is available on the University (<http://www.du.ac.in>), department and college websites. The scores in the written test are also made public. Lists of the students who qualify for the next stage of the admission process are displayed are uploaded on the college website.
- As the BBS and BMS courses were offered in other colleges of the University of Delhi, the seat matrix giving the seats available under each category (across colleges and two courses BBS and BFIA) is uploaded on the website.
- During centralised counselling to determine the preference of candidates for course and college based on merit, the admission process, seat matrix with the number of seats filled and number lying vacant in each category is uploaded on the college website as well as on the university and department websites.
- Details of the students admitted to the college at the end of the admission process are displayed on the college website.
- The college provides assistance to applicants during the admission process via an admission help desk and through email/telephonic counselling.

##### For B.Tech (Computer Science), B.Sc. (Computer Science) admissions

- For admission to computer sciences course, the criteria as adopted by University of Delhi is followed, the same is clearly given on the University of Delhi website (<http://www.du.ac.in>).
- The cut off percentages are displayed on college website (<http://www.sscbsdu.ac.in>) and on the college notice board during the

- admission process. Due publicity is given by University of Delhi through their website and press releases.
- The college provides assistance to applicants during the admission process via an admission help desk and through email/telephonic counselling.

### **2.1.2 Admission Criteria**

**Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.**

#### For B.Tech (Computer Science), B.Sc. (Computer Science) admissions

- Admission criteria and cut off percentage is decided by the college department in consultation with the Principal, within the broad framework of University of Delhi rules
- Admission is on the basis of merit based on the percentage secured by the candidate in Senior Secondary Examination or its equivalent.

#### For BBS and BFIA

- Till 2012 admission to the BBS and BFIA was based on the combined performance of the candidate in the senior secondary (or its equivalent) examination, score in the entrance test, performance of the candidate in the group discussion and personal interview. The weightage criteria for each being 30%, 50% and 20% respectively.
- However for 2014, due to the roll back of the FYUP, the admission criteria was based on the combined performance of the candidate in the Senior Secondary Examination and the Entrance test conducted by the Faculty of Management Studies (University of Delhi). The weightage for each 50% respectively.

#### BMS Admissions (2013-14) FYUP

- The admission criteria were based on the combined performance of the candidate in the Senior Secondary Examination, entrance test and the performance in the personal interview. The weightage for each criteria being as given in the table below.

	2012-2013	2013-2014	2014-2015
<b>Course</b>	<b>BBS/BFIA</b>	<b>BMS</b>	<b>BBS/BFIA</b>
<b>Criteria</b>	<ul style="list-style-type: none"> <li>• Class XII- 30%</li> <li>• Entrance Test- 50%</li> <li>• Personal Interview and Group Discussion- 20%</li> </ul>	<ul style="list-style-type: none"> <li>• Class XII- 30%</li> <li>• Entrance Test- 50%</li> <li>• Personal Interview -20%</li> </ul>	<ul style="list-style-type: none"> <li>• Class XII- 50%</li> <li>• Entrance Test -50%</li> </ul>

### 2.1.3 Department Wise Admission Cut Offs

Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district

<b>Maximum Minimum combined score (50% entrance test and 50% to XII class marks) category wise for BBS (2014-15)</b>								
	Unreserved		OBC		SC		ST	
Colleges	Min	Max	Min	Max	Min	Max	Min	Max
SSCBS	73.83 (228)	86.92 (1)	60.88 (193)	73.21 (3)	53.33 (159)	70.05 (1)	29.46 (128)	64.55 (1)
DDU	71.55 (454)	73.88 (225)	57.63 (367)	61.58 (167)	47 (444)	56.08 (91)	29.67 (126)	44.67 (49)
KMV	70.96 (531)	73.92 (223)	56.71 (422)	62 (153)	47.05 (442)	55.8 (95)	37.42 (94)	44.71 (48)

Note: Figures in brackets indicate the overall ranks of the candidate admitted.

<b>Maximum Minimum combined score (50% entrance test and 50% to XII class marks) category wise for BFIA (2014-15)</b>								
<b>BFIA (course offered by SSCBS only)</b>								
<b>Maximum Minimum cutoff category wise for BFIA (2014-15)</b>								
	Unreserved		OBC		SC		ST	
Colleges	Min	Max	Min	Max	Min	Max	Min	Max
SSCBS	73.83 (228)	81 (11)	60.8 (200)	70.13 (12)	50.05 (291)	58.33 (55)	46.8 (40)	59.13 (4)

Note: Figures in brackets indicate the overall rank of the candidate admitted.

**Max and Min cut off (Class XII marks) category wise for B.Sc. (Computer Science) (2014-15)**

College	Unreserved		OBC		SC		ST	
	Max	Min	Max	Min	Max	Min	Max	Min
SSCBS	98	92	97	84	97	78	96	74
ANDC	100	93	96	88	93	81	85	68
ARSD	100	91	99	85	95	73	94	64
BCAPS	99	92	99.5	86.25	97.5	77	97	60
CVS	96	92.25	93	89.25	91	78	91	78
DDU	96	92	95	86	93	72	85	63
HANSRAJ	99.3	96.66	98	95	95	91	95	79
I.P.	99	93	94	85	90	73.5	90	63
KALINDI	96	87	92	83	90	67	90	65
KMV	98	94	96	88	90	83	87	58
M.AGRASEN	89	89	85	84	83	80	83	80
MAITRYI	87	85	84	82	80	78	80	78
PGDAV	98	90	93	87	88	81	78	70
RLA	99	89	97	88	96	74	96	70
SRCAPS	99	85	95	77	90	72	90	55
SGGCCS	98	92.66	-		92	65	87	65
SPM	100	86	95	78	95	74	95	71.5

**2.1.4 Admission Process Review**

**Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’ what is the outcome of such an effort and how has it contributed to the improvement of the process?**

For BBS, BFIA and BMS Admissions

- The admission process is closely monitored and reviewed by an Admission Committee comprising of members of the department, Principals of the colleges and nominated faculty from each college.
- Based on the previous years’ experience, admission policy is reviewed by the committee at the beginning of the admission process.
- In the past years the subject list used for calculating the Senior Secondary marks of the candidate has been reviewed and inclusions and deletions made.

For B.Tech (Computer Science) Admissions

- The admission criteria are within the broad framework of the criteria as decided by the University of Delhi.
- Based on the previous experience and a review of the result of students in the Senior Secondary Examination, the cut offs are discussed and decided in the college department meetings and in consultation with the Principal.
- During the admission process the college email, telephones lines and website are dedicated to handling queries of the candidates.
- The college also displays the contact details of the Admission Grievance Committee, which looks into feedback and grievances received during and after the admission process.

### **2.1.5 National Commitment to Diversity, Inclusive admission Policy and Students Profile**

**Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion**

The college follows strictly the reservation policy of the Central Government with regard to admission of SC, ST, OBC, differently abled, children of war widows, and foreign nationals as adopted by the University of Delhi.

The college undertakes the following steps to fulfil its commitment towards students from diverse backgrounds

- The college has constituted a committee for prevention of sexual harassment and caste based discrimination
- The Anti-Ragging Committee ensures that no student faces any mental or physical harassment in the college
- A member of the faculty has been designated to look into the specific problems faced by the students from the North Eastern States of the country.
- Remedial classes for the weak students are arranged whenever required.
- Financial Aid is provided to students from economically weak students.

### **2.1.6 Details of Various Programmes offered by the Institution**

**Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.**

The BBS course is offered in three college of the University of Delhi. BFIA course is only offered at SSCBS. The admission to BBS and BFIA courses, across the colleges, is based on a joint entrance test.

BMS (FYUP course) course was in 6 colleges. Admission to the colleges was through a joint entrance test.

**Undergraduate Program (2014-15)**

S. NO.	PROGRAMMES	Number of Applicants	Number of Students Admitted	Demand Ratio
1	BBS		196	1: 83
2	BFIA		69	1: 83
2	B.Sc. (Comp. Sc.)		57	

Note: The admission to the BBS and BFIA courses was through an entrance test conducted by Faculty of Management Studies, University of Delhi. More than 22,000 candidates appeared in the test. Based on the past experience in counselling (indicated by the ranks admitted), SSCBS is the first preference of applicants, thus the demand ratio is calculated keeping this trend as the basis. The demand ratio for BSc (Computer Science) cannot be calculated.

**UNDERGRADUATE PROGRAMS (2013-14)**

S. NO.	PROGRAMMES	Number of Applicants	Number of Students Admitted	Demand Ratio
1	BMS		323	1: 70.24
2	B.Tech (Comp. Sc.)		258	

Note: The admission to BMS course was done through the entrance test conducted by the Faculty of Management Studies, University of Delhi. 22690 candidates appeared in the test. Based on the past experience in counselling (indicated by the ranks admitted), SSCBS is the first preference of applicants, thus the demand ratio is calculated keeping this trend as the basis. The demand ratio for BSc (Computer Science) cannot be calculated.

**UNDERGRADUATE PROGRAMS (2012-13)**

S. NO.	PROGRAMMES	Number of Applicants	Number of Students Admitted	Demand Ratio
1	BBS		202	1: 58.90
2	BFIA		65	1: 58.90
3	B.Sc. (Comp. Sc.)		47	

Note: The admission to BBS and BFIA courses was done through the joint entrance test conducted by the Faculty of Applied Social Sciences and Humanities, University of Delhi. 15,727 candidates appeared in the test. Based on the past experience in counselling (indicated by the ranks admitted), SSCBS is the first preference of applicants, thus the demand ratio is calculated keeping this trend as the basis. The demand ratio for BSc (Computer Science) cannot be calculated.

### **UNDERGRADUATE PROGRAMS (2011-12)**

S. NO.	PROGRAMMES	Number of Applicants	Number of Students Admitted	Demand Ratio
1	BBS		200	1: 57.71
2	BFIA		67	1: 57.71
3	B.Sc. (Comp. Sc.)	-	36	-

Note:

- The admission to BBS and BFIA courses was done through the joint entrance test conducted by the Faculty of Applied Social Sciences and Humanities, University of Delhi. 15,409 candidates appeared in the test. Based on the past experience in counselling (indicated by the ranks admitted), SSCBS is the first preference of applicants, thus the demand ratio is calculated keeping this trend as the basis
- For the academic session 2011-12, registration/invitation of applications from candidates desirous of seeking admission to B.Sc. (Computer Science) was not permitted by the University of Delhi. Admissions were conducted based on the cut offs declared by each college directly. Hence data on applications received and the demand ratio cannot be worked out.

### **UNDERGRADUATE PROGRAMS (2010-11)**

S. NO.	PROGRAMMES	Number of Applicants	Number of Students Admitted	Demand Ratio
1	BBS		213	1: 47.58
2	BFIA		69	1: 47.58
3	B.Sc. (Comp. Sc.)		63	

Note: The admission to BBS and BFIA courses was done through the joint entrance test conducted by the Faculty of Applied Social Sciences and Humanities, University of Delhi. 13,276 candidates appeared in the test. Based on the past experience in counselling (indicated by the ranks admitted), SSCBS is the first preference of applicants, thus the demand ratio is calculated keeping this trend as the basis. The demand ratio for B.Sc. (Computer Science) cannot be calculated.

## **2.2 Catering to Student Diversity**

### **2.2.1 How does the institution cater to the needs of differently abled students and ensure adherence to government policies in this regard?**

The college has initiated many steps for the benefit of the differently abled students as per the University and Government Ordinances. Policies delineated by the Equal Opportunity Cell (EOC) of the University are implemented by the college.

- As per the policy of Government, the college has reserved 3% seats for the differently abled candidates.
- Extra time is given during examination.
- No tuition fee is charged from them.
- Readers or writers are available for the students as per their requirements.
- The college has been putting in due efforts to ensure hassle free environment for the students in terms of putting up signage and special attention of the professors while in the class.
- The current facility of the college has certain infrastructural constraints; however, the premise is soon to be moved to a new location with all requisites to be made available for the differently abled.

### **2.2.2 Assessment of Student's Needs: (in terms of knowledge and skills)**

**Does the institution assess the students' need in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.**

- To counsel the admission seekers about the courses, admission process and admission related queries; parents/students are invited and encouraged for visits to the college in order to interact with the teaching faculty as well as administration for any clarifications/discussions.
- Schedule is decided for the complete pre admission phase in order to ensure that as and when admission seekers visit college, all their queries are duly addressed.
- A general orientation programme is also conducted at the beginning of the session in order to familiarize students with the college culture, examination patterns, extra-curricular activities, sports and other facilities.
- Through group interaction, the faculty assesses the students' ability and plans the teaching methodology accordingly. These interactions also help the faculty to assess the needs for workshops and special lectures and accordingly the same are arranged.
- The college readies itself before the session starts with schedules well in place and classrooms and laboratories ready for use.
- Software, hardware and teaching equipment that help in enhancing course delivery and requirements are made available prior to the commencement of the session.

### **2.2.3 Enabling Strategies Adopted to Bridge the Knowledge Gap of Enrolled Students**

**What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/Addition/Enrichment courses, etc.) to enable them to cope with the programme of their choice?**

- The faculty bridges the knowledge gap of the students admitted through regular interactive classes. During these sessions progress of the students is assessed by the faculty. Appropriate readings are suggested to help students.
- Through case discussions, role plays and presentations peer learning is enhanced.
- The college has a policy of conducting remedial/enrichment classes for student, wherever required.
- Add-on courses are offered so that students can relate to the subjects more. For instance, NSE Certified Capital Market Professional (NCCMP) training in collaboration with National Stock Exchange (NSE) is offered to the students for better understanding of the finance area.
- The college facilitates a “Certificate Program in Spoken English” conducted by Teach India and British Council, which is directed at increasing student confidence and their employability.
- The college also runs a regular program of training in employability skill development and entrepreneurship skill development. Trainers from the corporate are invited for lectures in the same. This has benefitted a large number of students leading to their personality development and motivation.
- The computer science department conducts workshops and training programs for introducing students to the latest development in technology.
- Personalized and individualized counselling is also undertaken by the faculty members.

### **2.2.4 Sensitisation of Staff and Students on Socially Relevant Issues such as gender, inclusion and environment etc.**

**How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?**

The college has several societies such as National Service Scheme (NSS), Gender Sensitisation Committee, Kartavya Club, Equal Opportunity Cell and Enactus SSCBS under which both students and faculty are sensitized towards empowerment, inclusion and environment protection.

- Issues pertaining to the protection of the environment are taken up by Kartavya (social initiative society) that organizes lectures, workshops and street plays/skits to sensitize staff members and students towards these issues.

- Through NSS chapter of the college, the students are provided an exposure to the conditions of the underprivileged.
- The students society of ENACTUS SSCBS also runs three social entrepreneurship initiatives – Project *Akshar* (recycling of waste paper and rehabilitation of drug addicts and victims of human trafficking); Project *Sanitation Solution* (with the objective of improving sanitation among women and creating women entrepreneurs in slum areas); and Project *Gramoddhar* (adoption of a village Ghamroj and creating entrepreneurs of villagers in areas of poultry farming, handicrafts and beauty solutions).
- The faculty encourages the students to participate in activities and events conducted/organized by these societies such as tree plantations, recyclable paper collection, collection drive of clothes and food material for the underprivileged and cleanliness drive and blood donation camps.
- Classroom teaching is also used as a platform, wherever appropriate, in order to create awareness among students on these issues.

### **2.2.5 Identification and Response to Special educational/ Learning Needs of Advanced Learners**

#### **How does the institution identify and respond to special educational/learning needs of advanced learners?**

- The college is dedicated to providing advanced learning opportunities to students. For the purpose apart from incorporating latest issues and knowledge in the lectures, students' are given guidance at undertaking research in these areas.
- The departments of the college conduct workshops and training sessions to enable advanced learning of concepts for interested students.
- Faculty members and librarian actively guide students for advanced resources and opportunities.
- The students under the guidance of the faculty have worked on an in house project – software developed to handle time table construction, attendance and internal assessment.
- The college organizes an annual national convention, “Convergence” on contemporary areas of management and information technology, giving students an exposure to the new challenges and issues.
- The college through its various student societies offer a platform for holistic development of students. The college has:
  - Information Technology Society (Kronos): Kronos endeavours to promote a technology oriented attitude and an urge to delve deeper into the developments in the sector that affect our daily lives.

- Finance Society (FinX): works to generate financial awareness among the students through a variety of competitions and workshops)
- Model United Nations (DUMUN): organizes an annual conference based on international issue themes, which test the student delegate's skills of diplomacy, negotiation, their spontaneity and level-headedness in a handling crisis situation.
- Marketing Society (Mark-It): provides platform for ventures and engagements in the world of marketing.
- Economics Society (EcoVision): EcoVision aims to amalgamate fun with learning by conducting games, quizzes, debates and presentations so as to familiarize students with economic concepts and development of Indian and global economies.
- Social Entrepreneurship Cell (Enactus SSCBS): Enactus SSCBS is the social entrepreneurial cell of the college. With a team of 62 members, Enactus SSCBS is currently involved in 3 social outreach models namely, Sanitation Solutions, Project Akshar and Project Gramoddhar.
- Management Interaction Cell (MIC): the management and corporate exposure cell aims at bridging the gap between classroom learning and the industry. MIC organizes industrial visits to provide hands-on practical exposure to students and intra-college management events.
- Synergy: Synergy aims to integrate theoretical learning with on-the-job requirements of the corporate world through initiatives and events designed and executed with the contribution of industry experts. The events address pertinent issues integral to corporate culture like innovation, delegation, management and leadership.
- Entrepreneurship Cell (Yuva): promotes entrepreneurship among the students. It seeks to provide a platform to the students to convert their ideas into reality. The college launched its Incubation Centre in September 2010, in association with the National Entrepreneur Network (NEN). It is a setup, which carries out the mission of promoting innovation and entrepreneurship to enable and seed business operations with guidance in product design, know-how acquisition, financial mobilizations for a young entrepreneur and providing networking opportunities.
- Innovation Cell: Aims to provide a platform for encouraging research projects. Five college projects' have been selected by University of Delhi Innovation centre for funding and presentation.
- Law Society (Lawrence): society aims at imbibing legal literacy among the member by holding conferences and interactions with those eminent personalities in the field of law

#### **2.2.6 Analysis of academic Performance of the Marginalised Students**

**How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of the society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?**

- The college has collaboration with organizations like KPMG to aid economically weaker students through financial assistance in the form of scholarship on merit-cum-means basis.
- Fee waivers are also provided to differently abled students
- Faculty through their interaction in class identify cases of slow learners and disadvantaged sections of the society.
- The students are also sensitized to report such cases to the administration. Whenever any such case comes to notice, due care is taken. Counselling is done to boost the morale of such students.
- Parents of students who are slow learners or are differently abled meet with Principal and faculty, whenever the need be to discuss special needs of such students.
- Additionally the college supports economically weak students through provision of laptop and books.

## **2.3 Teaching and Learning Process**

### **2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)**

- The Academic Calendar constituting the teaching and examination/evaluation schedule is finalized by the University of Delhi. The University sends this schedule to all its constituent colleges. The college follows academic calendar of University of Delhi.
- Each department prepares teacher wise and paper wise teaching workload before the commencement of each semester which is approved in Faculty/Staff meeting.
- The timetable is prepared by the Timetable Committee and circulated in advance to the faculty to ensure that teaching begins on the first day of the session.
- The class time tables and time table of teachers are accessible online on the college website.
- Room Time tables and laboratory time tables are put outside each room and laboratory respectively.
- The faculty has freedom to make their own teaching plan within the time frame stipulated by the university.

- The departmental meetings also review the extent of syllabus covered in a specified period. The faculty committee decides the schedule of submission of marks for class tests and assignments and fixes deadlines for conduct of project presentations and class tests.
- The faculty participates in the evaluation process scheduled by the University.

### **2.3.2 Contribution to IQAC to improve the Learning- Teaching Process**

#### **How does IQAC contribute to improve the teaching learning process?**

IQAC has been recently formed. However, the department heads and concerned faculty have been doing work similar to the one expected of IQAC i.e. laying down standards and monitoring them. The Management and staff of the college have always striven to provide quality education to the students through an effective and meaningful learning-teaching environment. The academic and co-curricular activities undertaken by the college provide opportunity for the holistic development of the students.

### **2.3.3 Student Centric Learning**

#### **How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?**

The college provides a platform for project work, collaborative learning, independent learning and follows a dialogic approach to teaching in class rooms. The following are some measures undertaken in this regard:

- Since the start of the Business Studies course in 1987, case studies, simulations, corporate interaction (through special lectures, workshops and seminars), industry visits, presentations, viva voce have been an integral part of the teaching pedagogy.
- The college encourages students to prepare projects in groups and make presentations.
- Under FYUP introduced in 2013, the class composition for all foundation courses was heterogeneous in nature and each class had students of all disciplines, from all categories and from all regions of the country. This contributed to inter disciplinary peer learning.
- Learning is made interactive and student centric through collaborative interdisciplinary project mode e.g. the students of the 'Business Entrepreneurship Management' from different disciplines jointly prepared projects on entrepreneurship.
- Each student of first year under FYUP has been provided with a laptop to facilitate learning through ICT and preparing innovative projects.

- E-resources are available through Delhi University Library system (DULS) for independent learning. Journals, e resources and necessary software are made available through the library and the computer laboratories.
- Each classroom is equipped with LCD projectors. Laptops are also available to the faculty for taking classes in audio visually equipped classrooms and Internet facility is provided through Wi-Fi network of University of Delhi.
- College organizes seminars, workshops and training sessions by experts.
- Technological Support provided – The college campus is Wi-Fi enabled; ICT aided infrastructure, ICT connected library which is also connected to INFONET.
- Support provided by University includes: Institute of Life Long Learning (ILL) provides course content for various subjects; Conducting orientation and refresher courses for faculty; Short term workshops and training for teachers to update them on latest developments in the areas of their interest.

#### **2.3.4 Nurturing critical thinking, creativity and scientific temper among the students for transformation into life-long learners and innovators**

##### **How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?**

The learning-teaching pedagogy has adopted by the faculty has nurtured and encouraged critical thinking among students. This has been facilitated through emphasis on class discussions, seminar/talks, research based projects, class presentations, role playing, case study analysis, debates and discussions and internship and live projects in companies.

- The college holds inter-class and inter-college paper presentation, seminars/conferences and organizes workshops/exhibitions to nurture critical thinking and creativity.
- Class room discussions are held to encourage students to think rationally, logically and objectively.
- Faculty encourages students to think out of the box emphasising on divergent/multiple solutions.
- Contemporary developments are closely followed and form an integral part of class teaching and discussions.
- Students are offered opportunity to undertake live projects and summer internship with corporates is compulsory for all students of the 2<sup>nd</sup> year of BBS and BFIA courses.
- The creativity is nurtured by organizing various competitions such as painting, poster making, rangoli, creative writing, photography, dramatics and encouraging the students to create their own web pages/ web portals so that they may learn to use web applications for organizational work.

- Pathmanjari the college annual magazine provides a platform for students to showcase their literary skills and creativity.
- Various Student Activity Societies of the college like- marketing, law and economics and the College conducts annually a national level convention “Convergence” on emerging issues of various fields of management and computer science.
- The institution nurtures scientific temper and encourages the students to join summer workshops in different scientific laboratories. They also get an opportunity to work in the innovation projects initiated by the University of Delhi. The college students under the mentorship of faculty have developed a web-based in house software facilitating streamlining administrative procedures.
- Students have participated and won paper presentation competition. The students of the college have developed a number of mobile applications, these apps have won competition and some have been adopted by companies such as Nokia and have received funding from corporates.

### **2.3.5 Availability of Technologies and Facilities for Faculty for Effective Teaching**

**What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.**

- The college has a technologically well-equipped and Wi-Fi enabled campus
- The department of computer science is using virtual laboratories along with the conventional ones to enable the students to verify the results from both the methods. Some of the experiments designed by the Institute of the Life Long Learning; University of Delhi through virtual laboratories are also available to the staff and students.
- The college has 5 laboratories out of which one is dedicated to electronics. The computer laboratories allow students to work on dual platforms of Windows and Linux, giving adequate exposure to open source software.
- For effective teaching, e-learning resources from National Programme on Technology Enhanced Learning (NPTEL), National Library & Information services Infrastructure for Scholarly Content (NLIST) and INFONET are available in college.
- Software like MATLAB, MATHEMATICA and Capital Line are available through Delhi University Computer Centre.

### **2.3.6 Exposure of Students and Faculty to advanced Level of Knowledge and Skills**

**How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?**

- Faculty extensively use e-based learning and teaching methods, to facilitate the same the college provides LCD projectors in the classrooms.
- Each department organizes workshops, seminars and lecture by academic and industry experts for exposing students and faculty members to new and upcoming areas and to advance/expand the horizon of their knowledge.
- Besides, faculty is encouraged to attend/ participate in Seminars/ Conferences/ Workshops at other institutes including foreign universities. UGC supports paper presentation by provision of travelling allowance.
- The college Governing Body has also formed a policy of supporting faculty through provision of reimbursement of travelling expenses and registration fee for paper presentation in conferences of repute.
- Faculty members are encouraged to attend Refresher Courses, workshops, seminars and conferences.
- The college organises seminars and workshops on a regular basis. Computer Science department has in the past conducted seminars and workshops on Web Technology, Cloud Computing, Ethical Hacking and Dot Net technology. Management studies department has conducted seminars and workshops on SPSS, Econometrics, Open source Software.
- The college organises annual national seminar/convention (Convergence) which allows for a discussion on latest trends/issues/changes in the area of management and technology.

### **2.3.7 Benefit of Academic, Personal, and Psycho-Social Support and Guidance Services provided to Students**

**Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling/mentoring/academic advise) provided to students?**

- The college has a full-time Placement Officer providing career counselling and summer internship and placement services.
- The faculty informally provides personal and psycho -social counselling to the students.
- The college provides academic counselling through **Entrepreneurship Sessions** to second year students and **Employability Skills Sessions (ESS)** and Career counselling with final year students respectively.
  - The entrepreneurship sessions with 2nd year students aim at actively promoting entrepreneurship amongst college students. The 12 hour sessions inculcate in the minds of young students the need and the benefits

of being an entrepreneur. The resource persons engaged are trained entrepreneur educators certified by National Entrepreneur Network (NEN).

- In the ESS special attention is given to bridge the gap between – “What the industry wants?” and “What the academics offer?” At CBS, we strive to identify and maintain that ‘difference’.
- Workshops are conducted throughout the year, focusing on: Resume building, Cover letter, Group discussions, Personal Interviews, Case Study analysis and the corporate etiquette. The workshops are taken by industry experts and trainers.
- There’s also a structured mechanism for career guidance which help them identify job opportunities, prepare themselves for interview and also make informed career choices. This is facilitated through **AESS-Advanced Employability Skills Sessions**.
- Workshops are conducted for third years, focusing on: Management & Leadership Development, Managerial Oral communication, Problem-solving and negotiation, Innovation and Possibility Thinking, Corporate Etiquettes, Time-management. The workshops are taken by industry experts and human potential specialists. AESS also covers resume building, Cover Letter Writing, Case Study, Guess-estimations, Group Discussions and Personal Interviews.
- The faculty also informally provides personal and psycho -social counselling to the students. Counselling is done on several areas ranging from issues of abuse, domestic violence, career and stress related issues. The names of the help seekers are kept confidential.

**2.3.8 Innovative Teaching Approaches/Methods Adopted by the Faculty**  
**Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?**

The college takes initiative at reinventing and adopting innovative teaching pedagogies. The following are measures directed at the same:

- College has provided laptops to faculty and projectors are made available in class rooms to blend ICT into their teaching.
- Advance concepts in curriculum are explained by using models.
- Industry visits are organized for students with the aim of enriching students’ knowledge and providing industry-student interface.
- Role plays, case studies and interactive sessions constitute an important and integral part of the curriculum and teaching pedagogy. These have helped to improve their academic performance and employability.

### **2.3.9 Use of Library Resources to Augment the Learning-Teaching process**

#### **How are library resources used to augment the teaching- learning process?**

- All educational material in the library such as books, magazines, journals etc. are available for circulation and /or reference, among students and faculty members throughout the year.
- The library has open access facilitating users to search for required documents directly from the indexed book racks.
- Library has a computer with Online Public Access Catalog.
- Reference course text books are reserved for economically weaker students and differently abled students.
- Library orientation programme for students and workshop on use of e-resources in teaching and research is organized for faculty and students.
- Annual stocktaking of the library is conducted.

### **2.3.10 Challenges in Completing the Curriculum within the planned time frame and calendar**

#### **Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.**

- The college follows the University of Delhi academic calendar.
- Normally the curriculum is completed in the planned time frame.
- The college tries to minimize the loss of teaching hours by organizing extra-curricular activities preferably during the one hour break from Monday to Friday or else on Saturday when organized teaching is minimal. The college has incorporated a one hour break in the timetable every day to facilitate extra-curricular activities.
- Whenever possible, faculty are encouraged to attend faculty development programmes, such as orientation and refresher courses, either in vacations or during suspension of teaching.
- In case a need arises, the faculty organise extra classes.
- Sometimes when teachers go on long leave, it becomes a challenge to find a suitable replacement. This is addressed by appointing teachers on ad-hoc/guest basis as replacement.

### **2.3.11 Monitoring and Evaluating the Quality of Teaching Learning**

#### **How does the institute monitor and evaluate the quality of teaching learning?**

- Monitoring of teaching schedule is done through departmental meetings.
- Assessment of course coverage and results analysis is carried out in individual departmental meetings.
- Student feedback is also used to monitor and evaluate the same.

- Staff Council meetings are also conducted by the Principal to monitor the quality of learning-teaching.
- IQAC has been recently formed to frame guidelines and ensure quality in teaching.

## 2.4 Teacher Quality

**2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum**

### FACULTY PROFILE

Highest Qualification	Principal		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
<b>Permanent Teachers</b>							
D.Sc./D.Litt.							
Ph.D.		1	2	4	5	6	18
M.Phil.				1	2	3	6
PG				3	6	4	13
<b>Temporary Teachers</b>							
D.Sc./D.Litt.							
Ph.D.						1	1
M.Phil.							
PG						1	1

### Recruitment / Retention of Faculty (Permanent/ Temporary/ Ad-hoc)

- Recruitment of faculty is as per UGC Guidelines (Student-Teacher Ratio)
- New teaching positions usually come up, either when the staff leaves or take leave for various reasons or when new courses are started.
- The permanent posts are advertised in leading newspapers and advertisement for ad hoc appointments is placed on the college website. The candidates who meet the minimum criteria as defined by the University of Delhi are called for an interview.
- The selection committee comprises of the following members- Chairman, Governing Body, Principal, four subject experts nominated by the Vice Chancellor, head of the department/senior faculty member and a SC/ST/OBC Observer nominated by the Vice Chancellor. The recommendations of the

- selection committee are then approved by the Governing Body and the appointment is made.
- In May 2014 and November 2014 the college undertook recruitment for the post of Assistant Professor in the department of Management Studies and Computer Science respectively. In all 19 positions were filled in the Management studies department and 2 positions in the Computer Science department.
  - Subsequent to recruitment, the college has adequate number of qualified teachers to undertake the courses taught in the college. Whenever required for any specialised/technical/ skill development courses for which expertise is not available from within the existing faculty, guest faculty or industry experts are invited.

#### **2.4.2 Coping with the Growing Demand/Scarcity of Qualified Senior Faculty to Teach Newly Introduced Programmes/Modern areas**

**How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.**

The college meets the challenges in following ways:

- For contemporary areas and upcoming stream of studies the college organises workshop/training for its existing faculty, which helps in updating the skills and knowledge of the faculty.
- Eminent industry and academic experts are invited to deliver lectures on a regular basis.
- Faculty is encouraged to attend workshops organised by other institutions to keep their knowledge updated.
- With a movement towards adoption of open source software, the college provides opportunities for students to explore its potential.
- Whenever required the college invites experts for guest lectures, both from academics and industry.
- Collaboration between departments allows for an enriching blend of management and technology.
- The college encourages faculty to attend refresher and orientation courses.

#### **2.4.3 Enhancement of Teaching Quality**

**Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.**

- a) **Nomination to staff development programmes**

**b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning**

- v Teaching learning methods/approaches
- v Handling new curriculum
- v Content/knowledge management
- v Selection, development and use of enrichment materials
- v Assessment
- v Cross cutting issues
- v Audio Visual Aids/multimedia
- v OER's
- v Teaching learning material development, selection and use

**c) Percentage of faculty**

- \* invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies
- \* participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies
- \* presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

**a) Staff Development Programmes during last 4 years**

Academic Staff Development Programmes	Number of Faculty Nominated
Refresher Course	3
HRD Programmes	0
Orientation Programmes	0
Staff Training Conducted by University	16
Staff Training conducted by other Institutions	3
Summer/Winter School, workshops, etc	16

**b) Faculty Training Programmes organized by the institutions (last 4 years)**

- International Conference on Big Data Analytics, University of Delhi and University of Aizu, Dec 24-26, 2012.
- SPSS workshop
- Open Source Software/KOHA Training
- Workshop on Modeling and Optimization Technology Management
- Ux Design Workshop
- Cloud computing
- Ethical Hacking
- FDP on Financial econometrics

- Web Technology Workshop

c) Percentage of faculty (last 4 years)

- Invited as resource persons in workshops/conferences and seminars organised by external professional agency **16.2% (6/37)**
- Participated in external workshops/seminars/conferences recognised by national/international bodies **86.5% (32/37)**
- Presented papers in workshops/seminars/conferences conducted by professional agencies **13.5% (5/37)**

**2.4.4 Policies/Systems provided by Institutions to Recharge Teachers**

**What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)**

- The college encourages faculty to pursue research by grant of Study/Extra ordinary.
- The faculty members have received grants from the University of Delhi for their research projects.
- Faculty members are also engaged in post graduate teaching and collaborative research with external institutes of repute.
- UGC and other funding agencies support paper presentation at international seminars by granting travel allowance.
- Research grants are provided by UGC, ICSSR and other funding agencies as per their criteria of eligibility.
- Governing Body of the college of its own initiative approved financial grant for paper presentation by faculty.

**2.4.5 Number of Faculty who Received Awards/ Recognition at the State/ National and international Level**

**Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.**

The college encourages the faculty to engage in research and academic enterprise and promotes the personal growth of faculty which has resulted in the faculty being recognised at the state level.

Faculty	Department	Award	Year
Dr. Ajay Jaiswal	Computer Science	Best Teacher Award constituted by the Directorate of Higher	2014-15

		Education, Government NCT Delhi	
Dr. Anamika Gupta	Computer Science	Best Teacher Award constituted by the Directorate of Higher Education, Government NCT Delhi	2013-14
Dr. Sameer Anand	Computer Science	Best Teacher Award constituted by the Directorate of Higher Education, Government NCT Delhi	2012-13
Dr. Anamika Gupta	Computer Science	Nav Kiran award for Social Service awarded by Women International Network	2012-13
Dr. Anuja Mathur	Business Studies	Best Teacher Award constituted by the Directorate of Higher Education, Government NCT Delhi	2011-12

The management of the college recognizes such achievements and highlights them in all reports/written documents including the college annual report, website and during college functions.

The college provides full support and encouragement to the faculty to excel in teaching. The faculty are provided full autonomy to plan their teaching schedules within the time frame and use innovative methods of teaching.

#### **2.4.6 Evaluation of Teachers by the Students and Peers**

**Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?**

- There is a formal mechanism for student feedback. At the end of each semester, the students are required to fill a feedback form (available and submitted both online and in a physical copy). The results are compiled, analyzed and communicated to the individual teachers for their knowledge. This feedback is used for the personal benefit of the faculty and for improvement of their teaching. Many teachers however, of their own and informally take feedback from the students.
- Complaints/suggestion boxes are placed in front of the Principals' office which facilitates regular feedback.

- The college also has a student council consisting of one student representative (elected/nominated by class students) of each class, Head of the departments, Laboratory in charges and the Principal. This Student Council meets atleast once a month to discuss issues concerning the students. This Council has acted as a very positive forum for candid exchange between students and the college administration and faculty.

## **2.5 Evaluation Process and Reforms**

### **2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation process?**

- College Information Bulletin and the College website contain relevant details of the evaluation process containing distribution of marks for various components like assignments, test, projects and attendance.
- At the beginning of the semester, the schedule of evaluation is available on the University's website.
- The students admitted each year are explained the evaluation system in the orientation program. Subsequently faculty members in their classes provide details and handle any query regarding the same.
- The internal assessment marks are displayed on the website and students are shown their assignments and marks.
- The internal assessment marks are sent to the University only after each student has signed their Internal Assessment.

### **2.5.2 Major evaluation reforms adopted by the Institution What are the major evaluation reforms of the university that the institution had adopted and what are the reforms initiated by the institution on its own?**

The college follows the evaluation reforms as per the University of Delhi guidelines. The college has adopted reforms concerning internal assessment and centralized evaluation as introduced by University of Delhi. The University has introduced reforms in evaluation process three times:

- In 2003-04 when Internal Assessment was introduced
- In 2010-11 when semester system was introduced and house examination was replaced by class test. However the college has been running on a semester mode for over two decades.
- In 2013-14 in the FYUP where the weightage of Internal Assessment has been increased for some papers.

#### **College initiated reforms:**

- College has introduced continuous evaluation in the form of House examination, project presentation and assignments in year 1999-2000, much

before University of Delhi adopted it in year 2003-04. Subsequently, house examinations have been discontinued by the University.

- The summer internships are also evaluated.
- Assignments, term papers, presentations, class discussions and tests form an integral part of continuous evaluation system.

### **2.5.3 Effective Implementation of evaluation Reforms**

**How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?**

- The College adheres to the university of Delhi evaluation norms. Whenever required faculty are granted duty leave to participate in Department meetings related to evaluation.
- Separate committees are constituted and coordinators are appointed in order to ensure complete and smooth implementation of evaluation reforms of university or those initiated by our institution itself. Course of action is laid down in consultation with Governing Body and monitoring committees are setup to carry out the same.
- The following committees have made contribution towards effective implementation of evaluation reforms
  - Internal Assessment Monitoring Committee
  - Moderation Committee
  - Attendance Monitoring Committee

### **2.5.4 Formative and Summative Assessment Approaches for Measuring Students Achievement**

**Provide details on the formative and summative assessment approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.**

The formative assessment involves learning through problem solving and decision making. These have been an integral part of the institute's evaluation process. For summative assessment, the college introduced house examination which went on till 2012-13 when under the directions of the University of Delhi they were replaced by class tests.

The assessment approaches used by the departments of the college for purpose of internal assessment are- multiple choice test, term paper, paper presentation, seminars and class tests.

Final semester examinations are conducted by the University of Delhi.

As a result of these initiatives the pass percentage in the University Examination has increased/ maintained over the years.

### **2.5.5 Rigor and Transparency in Internal Assessment**

**Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioural aspects, independent learning, communication skills etc.)**

- Internal Assessment is monitored by Internal Assessment Monitoring Committee. There is complete transparency in the Internal Assessment scheme followed by the college. Internal Assessment has three components:
  - Regularity is rewarded 5% marks on account of attendance. Month wise attendance is displayed on the college website for easy access to students.
  - Timely submission and quality of assignments/projects presentation is awarded 10% marks.
  - 10% marks are for class test/term paper/assignment.
- Internal assessment marks are uploaded on the college website, the students can check their marks and check for any discrepancy.

### **2.5.6 Graduate Attributes College Focuses On**

**What is the graduate attributes specified by the college/affiliating university?  
How does the college ensure the attainment of these by the students?**

The college is committed to preparing students as responsive and ethical managers, technocrats, entrepreneurs and researchers.

The graduate attribute is to make the student a lifelong learner. The curriculum and interactive classes evoke curiosity in students which makes them lifelong learners. The capacity of independent learning and team work is evaluated through projects and communication skills through project presentation.

### **2.5.7 Mechanism for Redressal of Grievances with Reference to Evaluation What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?**

There are three levels of grievance redressal available to the student with regard to Internal Assessment at the college level:

- First at the teacher level
- Second department level and
- Third level is the Monitoring Committee for Internal Assessment in college.
- The University has a provision for re-totalling of marks, when a student applies for the same.

## **2.6. Student Performance and Learning Outcomes**

**2.6.1 Does the college have clearly stated learning outcomes? If ‘yes’ give details on how the students and staff are made aware of these?**

The college has stated learning outcomes which are clearly mentioning in the syllabus of all the courses under the head objectives. Information is also available on college and university website. The college website clearly states the vision, mission and objectives of the college.

**2.6.2 Monitoring and Communicating the Performance and Progress of Students**

**Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students’ results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered**

Analysis of the students result for Bachelor of Business studies Course (BBS)

	Academic Year			
	2011	2012	2013	2014
No. of students who appeared for the exams	115	161	185	178
No. of students who were awarded the BBS Degree	115	160	173	178
No. of students who were placed in 1 <sup>st</sup> Division	92	127	151	171
No. of students who were placed in 2 <sup>nd</sup> Division	23	33	22	07

Analysis of the student result for Bachelor of Financial and Investment Analysis (BFIA) course

	Academic Year			
	2011	2012	2013	2014
No. of students who appeared for the exams	38	46	55	62
No. of students who were awarded the BFIA Degree	36	45	50	62
No. of students who were placed in 1 <sup>st</sup> Division	29	37	42	52
No. of students who were placed in 2 <sup>nd</sup> Division	07	00	08	10

Analysis of the student result for Bachelor of Science (Computer Science) course

	Academic Year			
	2011	2012	2013	2014
No. of students who appeared for the exams	23	26	52	31
No. of students who were awarded the Degree	22	24	50	30
No. of students who were placed in 1 <sup>st</sup> Division	19	20	45	30
No. of students who were placed in 2 <sup>nd</sup> Division	03	04	04	00
No. of students without division	00	00	01	00

- Assignment evaluation is done by the faculty on the basis of the criterion communicated to the students in advance.
- Results of class test are communicated to the students and evaluated answer scripts are shown to them for any clarification.
- Internal marks are displayed on the college notice board and college website.
- Students are given a chance to represent for rectification of discrepancy, if any.
- Finally Internal Assessment marks are shown to the students individually and their signatures are obtained on the result sheets.

### **2.6.3 Teaching, Learning And Assessment Strategies Of The Institution**

**How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?**

- The college provides infrastructural facilities to optimize the achievement of intended learning outcomes.
- Teachers give assignments, article reviews to the students, evenly spread throughout the semester.
- Students' learning is also facilitated by presentations, case study and class discussion.
- Industry interface is offered to students through seminars, guest lectures, industrial visit, summer internships and live projects.
- To assist in the holistic development of the students are encouraged to participate in various student societies (academic and cultural).

#### **2.6.4 Measures/Initiatives Taken Up By The Institution To Enhance The Social And Economic Relevance**

**What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?**

College has taken many initiatives to enhance the social and economic relevance of the course:

- The college has a placement cell which invites companies from as many as 15 sectors, including consultancy, insurance, knowledge sciences, real estate, media, investment banking, public relations, information technology, shipping and financial services, for recruitment and internship. In 2013-14, 162 offers were received from 33 companies.
- Summer internship is an integral/compulsory part of BBS, BFIA and BMS curriculum. Students explore opportunities and get practical exposure through summer internship they also get an opportunity to work on live projects.
- College encourages entrepreneurship, innovation and social entrepreneurship through facilitating interaction between various student societies, academic experts, business developers and industry.

#### **2.6.5 Collection and Analyses of Data on Student Performance And Learning Outcomes**

**How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?**

- Internal assessment is undertaken for every course and for every subject. This data is a part of continuous evaluation of the students.
- Classroom interactions helps faculty identify the needs and potentials of the students.
- The internal assessment and final semester result is discussed with students, in departmental meetings and analysis of result with the Principal.

#### **2.6.6 Monitoring and Ensuring The Achievement Of Learning Outcomes**

**How does the institution monitor and ensure the achievement of learning outcomes?**

To monitor and ensure achievements of learning outcomes:

- Frequent meeting of the class representatives is organized with the Principal and Teacher in charge who personally looks into every detail regarding teaching and learning.
- Faculty feedback form is also provided to the students. Outcome of these forms is shared with the teachers for betterment.
- Alumni meeting, placement record and semester examination results also provide direction and guidance for betterment of teaching and learning.

### **2.6.7 Teachers Use Assessment/ Evaluation Outcomes as an Indicator for Evaluating Student Performance, Achievement Of Learning Objectives And Planning**

**Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.**

#### **Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include**

The extent of learning achieved is evaluated by discussing case studies which also provides understanding of real world situations to the students. This encourages innovative/creative idea generation and inductive and deductive reasoning.

The future of the student in terms of pursuing higher education or exploring job prospects is incumbent upon marks/division attained at their graduation level.

- Students' performance in the exams can be used as an indicator of their grasp and understanding of the subject
- Marks/division acts as a basis for further academic and professional planning.
- It can also be indicative of the skills and strengths that would enable them to take up challenges.
- The holistic development contributes to the overall personality development and together with academic inputs drives students towards entrepreneurship.

#### **ANY OTHER RELEVANT INFORMATION**

- The college has a transparent admission policy
- The college has adopted innovative learning-teaching practices
- The college management is committed to creating an institution of learning and providing infrastructural facilities that would nurture the learning teaching environment.
- The college is sensitized to the needs of the society and follows an inclusive policy.
- The college has to its credit a highly qualified and experienced faculty.
- The college continues in its endeavours to make the institution student centric and socially responsive.



### **CRITERION 3: Research, Consultancy and Extension**

#### **3.1 Promotion of Research**

##### **3.1.1 Does the institution have recognized research centers of the affiliating University or any other agency/organization?**

We currently do not have a recognized research center. However, with the active involvement of teachers as well as students in research, we are looking to have a research center set up and affiliated to a reputed body.

##### **3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.**

A research committee has recently been formed by the Staff Council to monitor and promote research related activities. This sub-committee is expected to report to the Staff Council on an annual basis. The Research Committee consists of 11 members nominated from both Management and Computer Science departments. The members have different areas of expertise which creates a heterogeneous mix in the composition of the committee. Some of the recommendations made by the committee and their impact are stated below.

#### **RECOMMENDATIONS:**

The committee recommended provision of financial support to faculty members for chairing/attending/presenting in conferences/seminars/workshops/symposiums. It also proposed formation of a committee to look into matters related to the same. The committee is further engaged in enhancing/refining the processes/provisions for strengthening research culture in the institution. The current agenda of the committee includes:

- launching a journal and setting up an editorial board for the same
- acquiring affiliation for the Research-Center of the college from a reputed body
- provision of seed money for faculty members actively involved in research
- appreciation certificate/duty leave/token money to be awarded as recognition for papers presented beyond the financial support extended by the college
- flexibility/relaxation in teaching load to be given based on one's research proposal for the forthcoming semester
- financial support to be given to students for presenting papers in conferences

#### **IMPACT:**

- The Governing Body generously accepted the proposal of the research committee. Consequently, a three member committee, comprising of the Principal, one member from the Governing body (University representative) and one subject expert from an esteemed organization, shall be formed as recommended. Financial support shall be extended for chairing/attending/presenting in conferences/seminars/workshops/symposiums (once per year for those held within India, and once in three years for those held outside India).
- The aspiring researchers have found this recent development promising and encouraging.

### **3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?**

**§ autonomy to the principal investigator**

**§ timely availability or release of resources**

**§adequate infrastructure and human resources**

**§ time-off, reduced teaching load, special leave etc. to teachers**

**§ support in terms of technology and information needs**

**§ facilitate timely auditing and submission of utilization certificate to the funding authorities**

**§any other**

The college has rigorous focus on the research projects and to facilitate autonomy to the principal investigator, he/she is given autonomy to utilize research project budget for expenditure in procuring printing facilities, computers, software, stationery, travel, etc.

The infrastructure requirements are made available as per the need of the project. The college encourages faculty and students to be involved in innovative research projects. The staff is very supportive in providing administrative and technical support to these projects as and when required.

Periodic progress reports are prepared and monitored by the Principal investigator and are also forwarded to the funding agencies as per their requirements. Duty leaves are provided to the teachers for presentation of the project details to the funding agencies. Till 2014, 10 out of 14 teachers had been granted study leave for doing research.

Generous support by the college authorities in terms of infrastructure, time-offs, conducive atmosphere and encouragement to student involvement have helped spur the growth of research at SSCBS.

### **3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?**

The students are encouraged to actively participate in various research based projects undertaken in the college and events conducted by different college societies engaged in achieving the objective of developing scientific temper and research culture and aptitude among students.

- Innovation Projects: SSCBS encourages staff and students to participate in Innovation Projects. The prospective participants formulate teams each of which comprises of 10 students and 3 teachers. Each team then presents its research proposal. The University Innovation Cell offers grants to a few selected teams from the university based on the proposals. Going through this rigorous process of selection helps the students inculcate scientific temper/aptitude. (Details of various ongoing and completed Innovation Projects are mentioned in 3.1.5)
- Under the guidance of teachers, web-based projects are undertaken by students. Besides, workshops, seminars and Convergence (Annual Corporate Convention) are conducted to develop competitive spirit in students.

Student research and related activities is also promoted via student societies. These societies expose students to ongoing research in the industry to open new horizons for them in the field of research.

- Knowledge and Research Cell (KRC): This society strives to give maximum learning exposure to students keeping in mind the industry expectations. It focuses on seeking opportunities and taking initiatives in providing research exposure to students in the areas of marketing, finance, entrepreneurship, leadership, communication, brand management, organizational behavior and human capital management.
- Management Interaction Cell (MIC): This society organizes industrial visits to give hands-on practical exposure to the students.
- FinX (Finance society): FinWiz organizes The Finance Quiz, Corporate Suite – a game based on International Finance and *Bulls and Bears*.
- KRONOS (IT society): This society conducts an annual technical festival *Sanganak* in association with major IT giants. The events organized by the society include quizzes, gaming events, programming and application development.
- MARK-IT (Marketing society): This society organizes annual event EXCELSIOR. The team of MARK-IT participated in Kolkata Marketing Summit; INERTIA at St. Xavier's College and stood as the National Runners Up. The team also bagged the second position at ESPIRIT'13- The international management fest of Christ University, Bengaluru.

- Synergy (Corporate Events Society): The society exposes the students to management concepts like Industrialization, Liberalization and Globalization under the mentorship of industry experts. This society in the past developed case studies in consultation with industry experts which became a part of a students' competition organized by the society.
- YUVA (Entrepreneurship Cell): The primary objective of the society is to promote entrepreneurship among young buzzing minds by providing a direct interaction in the form of internship with entrepreneurs thereby fostering the spirit of innovation. The society in the past had organized an event WYSIWYG (what you see is what you get) through which students got an opportunity to have industry interaction.
- Grandeur (Consultancy): This society undertakes live research projects with companies under the guidance of faculty members. A consulting club has been established to develop, acumen, and spread knowledge about management and consultancy as professions.

### **3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity etc.**

Faculty members are actively involved in research activities in terms of guiding student research, leading research projects, collaborative research activities etc. Guiding projects is done as a part of curriculum requirement. All faculty members are involved in guiding students in their respective areas of specialization/elective/papers/projects.

A list of various ongoing/ completed Innovation projects follows:

1. Investor Sentiment in the Indian Financial Market: An Empirical Study
2. Financial Inclusion – Issues and Challenges: An Empirical Study
3. Predicting the Financial Crisis of the Companies based upon Cash Flow Statement: An innovative approach
4. E-mentoring in DU
5. Health Insurance Scheme for Domestic Workers - Public Private Partnership

Following is a detailed description of faculty members (highlighted in bold) guiding student research, leading Research Projects and their involvement in individual/collaborative research activities.

1. Thomas, C.B., **Singh, R.** and **Porwal, H.K.** (2012). Performance Analysis of Balanced Indian Mutual Funds. *SS International Journal of Business and Management*, 2(6).
2. Singhal, S., **Singh, R.** and **Porwal, H.K.** (2012). The Month of the Year Effect in Indian Stock Market: an Analysis of impact of market, industry

- and size of firm. *International Journal of Management, IT and Engineering, International Journal of Multidisciplinary Research Academy*, 2(12), pp.193-208.
3. Singh, P.K., **Singh, R.** and **Porwal, H.K.** (2012). *FDI in India-Response and Challenge*. Presented by Singh, P.K. in seminar organized by Shaheed Bhagat Singh College, University of Delhi on November 5-6, 2012.
  4. Sharma, T., **Singh, R.** and **Porwal, H.K.** (2014). Impact of Microfinance on the Living Standards, Poverty Alleviation and Empowerment of the Poor Women in Delhi. *International Journal of Research in Social Sciences(IJRSS)*, ISSN: 2249-2496, 4(4), pp. 95-117.
  5. Chawla, A., **Singh, R.** and **Porwal, H.K.** (2013-2014). Calendar Effects in Indian Stock markets. *Business Analyst*. Indexed in Ulrich's, ISSN 0973-211X, 34(2), pp.139-151.
  6. Gulati, S., **Porwal, H.K.** and **Singh, R.** (2012-2013). Testing the Validity of the Capital Asset Pricing Model for the Mid-Cap Stocks on the Bombay stock Exchange. *Business Analyst*. Indexed in Ulrich's, ISSN 0973-211X, 33(2), pp.25-35.
  7. Anand, N., and **Singh, R.** (2011). Inverted Yield Curve and Performance of Stocks of Different Market Capitalizations. *Asia Pacific Business Review*. ISSN 0973-2470, VII(3), pp.7-17.
  8. Jyoti, S. and **Singh, R.** (2009). Market Reaction to Bonus Issues in the Indian Stock Market. *Asia Pacific Business Review*. ISSN 0973-2470, V(3), pp.56-62.
  9. Deepak, G., Anand, A. and **Singh, R.** (2008). Empirical Testing of Strong Form of Market Efficiency. *Asia Pacific Business Review*. ISSN 0973-2470, IV(3).
  10. **Sehrawat, N.**, Dang, D.K. (2014). A study on the impact of Harmonization of Indian GAAP with International Financial Reporting Standards: Empirical Evidence from India. *4<sup>th</sup> India Finance Conference organized by IIM B, IIM A and IIM C*.
  11. Mittal, P. and Haldia P. (2015). Green Marketing Relevance on organizations of tomorrow. *7th International Conference on Managing organizations of tomorrow by capitalizing Generation Next*, Vol 1 ISBN 978-93-85000-01-0.
  12. Mittal, P. Solution to Environmental Degradation- Green Marketing. *Making India Climate Resilient: A National Conference on Climate Change Adoption and Resilience by International Development Centre & Ministry of Science and Technology & Ministry of Earth Sciences*.
  13. Mittal, P. and Haldia P. (2015). Mezzanine Finance for the Indian Microfinance Industry. *International Journal of Management Research and Business Strategy (IJMRBS)*, Vol. 4.

14. Bhambri, L., Rohella, H., Sharma, S., **Gupta, A.** (2015). Management Systems for an Educational Institute. *CSI sponsored National Conference on Innovations in IT, Management and Education – Digital India Initiative*, Maharaja Surajmal Institute, IP University, Delhi.
15. Joshi, J., Choudhary, A., Singh, D. and **Gupta, A.** (2015). E-Mentoring: A platform for alumni connect. *CSI sponsored National Conference on Innovations in IT, Management and Education – Digital India Initiative*, Maharaja Surajmal Institute, IP University, Delhi.

**3.1.6 Give details of workshops/training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.**

The college is actively involved in conducting workshops/seminars/faculty development programmes that are aimed at capacity building in terms of research and imbibing research culture among the faculty members. The details of a few such programs are as follows:

- FDP on Financial Econometrics (October 6-11, 2014).
- Workshop on “Web Application Penetration Testing” by Mr. Karthik Verma, lecturer and examiner for the National Security Database Empanelment Programs, 10<sup>th</sup> Oct 2014.
- Talk on “Combating the threat of growing Cyber-Naxalism” by Sh. Alok Vijayant, Director of Cyber Security Operations, National Technical Research Organization, Government of India, 10<sup>th</sup> Oct 2014.
- Workshop on “Android Apps”, NIIT Technologies, 13<sup>th</sup> Sept and 20<sup>th</sup> Sept, 2014.
- Talk on “Ux Design” by Mr. Ankur Sardana, Design Manager, Samsung, 12<sup>th</sup> Apr, 2014.
- Budget decoded: Analysis of Budget 2013-14, 2013.
- 5 day workshop on “Web Based Technologies” by Mr. Mukesh Jain, Director, ST WebSoft, 10<sup>th</sup> Dec to 15<sup>th</sup> Dec, 2013.
- SPSS workshop, 2011
- Organized seminar “Career Opportunities for Computer Science Graduates” at SSCBS. 15 eminent alumni from different areas were called as speakers to discuss the career options for computer science graduates, Sept 2011 and Sept 2012.
- A workshop on PHP tool for creating dynamic web pages.
- Modeling and Optimization in technology and management
- The Annual Corporate Convention of the college, CONVERGENCE, a two day event is organized with a corporate theme. The entire event is divided into

sessions focusing on various functional areas of management such as finance, marketing, HR and IT etc. in the context of the theme. Discussions held on such contemporary areas update the knowledge of participants thereby making them aware of latest developments and trends in the industry. Themes of CONVERGENCE in the past years have been diverse. A lot of research and deliberation goes into deciding these themes, identifying the relevant speakers, and designing events revolving around them. Some of the themes that have been taken up are “Revolution is Evolution”, “India’s Way to Develop: Connecting the Dots” and “India’s Root to Success: Transforming Potential into Performance”.

- The annual festival of Ecovision (Economics Society), ECOGNOSIS, spread over two days, is organized with emphasis on events revolving around training, investments, sixth sense and profits, all depicting and enhancing decision making skills and analytical ability. These events are specially designed to bring out innovative and out-of-box thinking in the participants.
- Besides, various societies of the college are aimed at imbibing research culture among the staff and students by organizing events designed to develop scientific perspective round the year. Details of relevant functional societies in the college have been mentioned in 3.1.4.

**3.1.7 Provide details of prioritized research areas and the expertise available with the institution.**

Many faculty members are involved in research activities in various disciplines of Management and Computer Science. Some of the disciplines for which the institution has expertise are listed below:

<p><b>Computer Science</b></p> <ul style="list-style-type: none"> <li>• Software Reliability</li> <li>• Data Mining</li> <li>• Social Networks</li> <li>• Pattern Recognition</li> <li>• Theoretical Computer Science</li> </ul> <p><b>Operations Research</b></p> <ul style="list-style-type: none"> <li>• Production Operations</li> <li>• Supply chain management</li> <li>• Mathematical Programming</li> </ul> <p><b>Finance</b></p> <ul style="list-style-type: none"> <li>• Mutual Funds</li> <li>• Capital Asset Pricing Model</li> <li>• Interest Rates Forecasting</li> <li>• Financial Evaluations</li> </ul>	<p><b>Human Resource Management</b></p> <ul style="list-style-type: none"> <li>• Transactional Analysis</li> <li>• Leadership</li> <li>• Communication</li> <li>• Enterprise Performance Management</li> <li>• Sustainable development</li> </ul> <p><b>Marketing</b></p> <ul style="list-style-type: none"> <li>• Market Orientation</li> <li>• Franchising</li> </ul> <p><b>Accounting</b></p> <ul style="list-style-type: none"> <li>• Accounting Standards</li> <li>• Inventory Management</li> </ul> <p><b>Economics</b></p> <ul style="list-style-type: none"> <li>• Infrastructural Macroeconomics</li> </ul>
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**3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?**

The college has a policy of conducting Annual Corporate Convention (Convergence), seminars, workshops, training programmes, faculty development programmes, IT seminars/lectures round the year. These are used as a platform for inviting researchers of eminence. Several eminent corporate leaders and researchers such as Mr. Dharendra Kumar, CEO, Value Research, Late Devang Mehta (NASSCOM), Mr. Satnam Singh, Chairman and Managing Director Power Finance Corporation, Mr. Sandeep Bharadwaj, Deputy General Manager, Tata Motors, Mr. Neeraj Manik, Vice President (Finance) IBM India and Mr. Sujeet Panigrahi, CEO, Convergent Technologies Pvt. Ltd., to name a few, have visited the college and interacted with students and faculty members.

**3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?**

Provision for Sabbatical Leave for research activities has been recently introduced at college level by University of Delhi. However, till 2014 10 teachers out of 14 were granted study leave. Having been relieved from teaching, the teachers can dedicate more time for research thereby improving quality of research.

**3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land).**

The college has organized many programs for imparting knowledge of research and statistical tools to the students. The detailed training programs for SPSS and SAS have been organized regularly. Some innovation research projects are in progress and the principal investigators are working on media article to make the stakeholders aware about their research findings. Innovation projects undertaken by the college are mentioned below.

1. Investor Sentiment in the Indian Financial Market: An Empirical Study (completed)
2. Financial Inclusion – Issues and Challenges: An Empirical Study
3. Predicting the Financial Crisis of the Companies based upon Cash Flow Statement: An innovative approach
4. E-mentoring in DU
5. Health Insurance Scheme for Domestic Workers-Public Private Partnership

The conclusions of research activities conducted by students and faculty are shared with students at appropriate times in connection with relevant topics.

### 3.2 Resource Mobilization for Research

#### 3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

The sanction of budget for research related activities is need-based and is subject to the Governing body's approval. The Governing body may decide to extend partial or full financial support to a research activity based on parameters such as Impact Factor/reputation of the conference/journal targeted and sum of money requested for. Support may be extended for expenses like registration fee, TA/DA etc. Besides, the college provides infrastructural support to both faculty and students for Innovation projects. Total money received for all the projects is ₹ 22 lacs. The details of major heads of expenditure and actual utilization are as follows:

Project Title	Financial Allocation (Rs)	Details of Major Expenditure	Actual Utilization (₹)
SSCBS-202 Health Insurance Scheme for domestic Workers. Public Private Partnership	3,00,000	Stipend to students	90000
		Payment to members	16000
		HP Notebook	22000
		Conveyance (students, teachers)	13969
		Miscellaneous	19771
		<b>Total</b>	<b>161740</b>
Project Title	Financial Allocation (Rs)	Details of Major Expenditure	Actual Utilization (₹)
SSCBS-201 Predicting the financial crisis of companies based on Cash Flow Statement: An Innovative Approach	3,00,000	Payment to students	1,20,000
		Projector Rent	3000
		Pamphlets and Food	5650
		<b>Total</b>	<b>128650</b>
Project Title	Financial Allocation (Rs)	Details of Major Expenditure	Actual Utilization (₹)
SSCBS-203 E-Mentoring in Delhi University	3,00,000	Stipend to students	57,000
		Purchase of two desktop computers	76,650

		Miscellaneous	16641
		<b>Total</b>	<b>1,50,291</b>
<b>Project Title</b>	<b>Financial Allocation (Rs)</b>	<b>Details of Major Expenditure</b>	<b>Actual Utilization (₹)</b>
SSCBS-101 Investor Sentiment in the Indian Financial Market: An Empirical Study	5,00,000	Stipend to students	1,20,000
		Honorarium	25,000
		Equipment/ Consumables	1,46,529
		Conveyance	25184
		Seminar/Presentation	23010
		Miscellaneous	26827
		<b>Total</b>	<b>3,66,550</b>
<b>Project Title</b>	<b>Financial Allocation (Rs)</b>	<b>Details of Major Expenditure</b>	<b>Actual Utilization (₹)</b>
SSCBS-204 Financial Inclusion – Issues and Challenges: An Empirical Study	3,00,000	Stipend to students	60000
		Payment to mentor	15000
		Cartridge	21,950
		Hard Disk	14,400
		Miscellaneous	31,053
		<b>Total</b>	<b>1,42,407</b>

**3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?**

There were no provisions but we have recently constituted a research committee which would look into the matter.

**3.2.3 What are the financial provisions made available to support student research projects by students?**

The sanction of budget for student projects is need-based and is subject to the Governing body's approval. Besides, we also meet the financial needs of such projects by appealing to the industry. Such support from the industry not only addresses the financial requirements but also encourages the students and provides them insight into the current needs of ever growing industry. Some of the grants we have received in the recent past for ENACTUS SSCBS are : DELL Innovation Grant, Mahindra Ethics Grant and Walmart Women Entrepreneurship Grant.

**3.2.4 How do the various departments/units/staff of the institute interaction undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing inter-disciplinary research.**

Faculty has availed grant from the University of Delhi under the scheme of innovation projects. Every project under this Scheme has three faculty members and 10 students from the two departments of our college. They meet on a regular basis to review the work done in the past and to decide the future course of action thus resulting in interaction for inter-disciplinary research. We have only two departments in our college which reduces the scope of having numerous combinations of different disciplines for inter-disciplinary research. A list of projects, where various departments/ staff of the college interact in undertaking inter-disciplinary research is mentioned below.

1. Investor Sentiment in the Indian Financial Market: An Empirical Study (completed)
2. Financial Inclusion – Issues and Challenges: An Empirical Study
3. Predicting the Financial Crisis of the Companies based upon Cash Flow Statement: An innovative approach
4. E-mentoring in DU
5. Health Insurance Scheme for Domestic Workers-Public Private Partnership

**3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?**

The college provides free access to computers, printers, scanners and photocopiers. The laboratory staff looks after the day-to-day usage and periodic maintenance of the equipments. The college campus is wi-fi enabled in order to ensure hassle free access to any academic material online.

**3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If ‘yes’ give details.**

Being a college of management studies and computer science, our requirement for research facilities translates into seminar/discussion rooms, a well-stocked library, Internet access, software and hardware.

The college has received a grant of Rs.22 lacs from University of Delhi for five research based projects namely:

1. Investor Sentiment in the Indian Financial Market: An Empirical Study (completed)
2. Financial Inclusion – Issues and Challenges: An Empirical Study
3. Predicting the Financial Crisis of the Companies based upon Cash Flow Statement: An innovative approach
4. E-mentoring in DU

### 5. Health Insurance Scheme for Domestic Workers-Public Private Partnership

The grant covers expenses incurred in books, computers, printers, storage media etc. Various equipments such as printers, scanners, laptops and desktops have been purchased from the grants received under the innovation project scheme of University of Delhi.

A detailed break-up is available in 3.2.1 and 3.2.7.

### 3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

The college provides all the support available to the faculty in preparation and submission of proposals of research projects for availing grants from various organizations. The table given below contains the details of all the ongoing and completed projects during the last four years under various categories.

Nature of the Project	Duration Year From-To	Title of the Project	Name of the Funding Agency	Total Grant		Total grant received (₹)
				Sanctioned (₹)	Received (₹)	
Inter-Disciplinary	Nov 2013-Mar 2015	E-Mentoring	Univ. of Delhi	3,00,000	3,00,000	3,00,000
Inter-Disciplinary	2013-2014	Health Insurance Scheme for domestic Workers – Public Private Partnership	Univ. of Delhi	3,00,000	3,00,000	3,00,000
Inter-Disciplinary	2014-2015	Financial Inclusion – Issues and Challenges: An Empirical Study	Univ. of Delhi	3,00,000	3,00,000	3,00,000
Inter-Disciplinary	2012-2013	Investor Sentiment in the Indian Financial Market: An	Univ. of Delhi	10,00,000	5,00,000	5,00,000

		Empirical Study (Project completed during 2014)				
Inter-Disciplinary	Nov 2013-Mar 2015	Predicting the Financial Crisis of the companies based upon Cash Flow Statement: An Innovative Approach	Univ. of Delhi	3,00,000	3,00,000	3,00,000

### 3.3 Research Facilities

#### 3.3.1 What are the research facilities available to the students and research scholars within the campus?

Being a college in management studies and computer science, our requirements for facilitating research activities include seminar/discussion rooms, well equipped computer laboratories, software (such as, MATLAB, SPSS), databases (such as Capitaline), internet connection and a well-stocked library, besides expert guidance. We are fully committed to all the above requirements. We have fully equipped computer labs and a well-stocked library. We have access to the e-resources (software and e-journals) provided by the University. We provide both Windows and Linux as computing platforms.

#### 3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

The college has been taking initiative in creating and upgrading infrastructural facilities available to researchers. The concerned faculty, laboratory in-charges and members of the research committee present their requirements (books, software and hardware etc.), which are in turn forwarded to the Governing body for approval.

We have planned for adequate support for research in our new building plan including well equipped labs, seminar rooms, designated discussion/study rooms etc.

Our research committee plans to conduct seminars and invite experts from various emerging areas more frequently in future. We believe that such exposure would meet the needs of researchers and benefit our students especially in the new and emerging areas of research.

**3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If ‘yes’, what are the instruments/facilities created during the last four years.**

Being a college of management studies and computer science, our requirement for research facilities translates into seminar/discussion rooms, a well-stocked library, Internet access, software and hardware.

The college has received a grant of Rs.22 lacs from University of Delhi for five research based projects namely:

1. Investor Sentiment in the Indian Financial Market: An Empirical Study (completed)
2. Financial Inclusion – Issues and Challenges: An Empirical Study
3. Predicting the Financial Crisis of the Companies based upon Cash Flow Statement: An innovative approach
4. E-mentoring in DU
5. Health Insurance Scheme for Domestic Workers-Public Private Partnership

The grant covers expenses incurred in books, computers, printers, storage media etc. Various equipments such as printers, scanners, laptops and desktops have been purchased from the grants received under the innovation project scheme of University of Delhi.

A detailed break-up is available in 3.2.1 and 3.2.7.

**3.3.4 What are the research facilities made available to the students and research scholars outside the campus/other research laboratories?**

The staff and the students can get online access to information from the University libraries where they can make use of Electronic Journals, Reports, and Case Studies.

**3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?**

The library adds new titles in its collection on regular basis and the total number of books in the library is 18,869. In addition, the library subscribes to journals of national and international repute. Apart from the print resources, teaching and research is also supported by providing access to Electronic Journals, Reports, and Case Studies through Delhi University Library Network and 02 Federated/Common Search Engines namely JCCC and Knimbus, 10 Reference & Citation Sources, 06 Bibliographic Sources, 02 Citation Analysis Resources namely, Scopus and Web of Science etc. Moreover, the library has an institutional membership of Developing Library Network and its databases are accessible through worldwide web using the web address <http://delnet.nic.in>.

Subject teachers and researchers can even request for special books as per need and availability.

**3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.**

SSCBS library is a collaborative venture with access to Electronic Journals, Reports, and Case Studies through Delhi University Library Network and 02 Federated/Common Search Engines namely JCCC and Knimbus, 10 Reference & Citation Sources, 06 Bibliographic Sources, 02 Citation Analysis Resources namely, Scopus and Web of Science etc. Moreover, the library has an institutional membership of Developing Library Network and its databases are accessible through worldwide web using the web address <http://delnet.nic.in>.

**3.4 Research Publications and Awards**

**3.4.1 Highlight the major research achievements of the staff and students in terms of**

- \* Patents obtained and filed (process and product)
- \* Original research contributing to product improvement
- \* Research studies or surveys benefiting the community or improving the services

**\* Research inputs contributing to new initiatives and social development**

- The “innovation projects” carried out by many faculty members of the college have helped the community, thereby contributing to new initiatives and social development. Some of the project details and their research findings are enumerated below:

**1. SSCBS-202: Health Insurance Scheme for Domestic Workers: Public Private Partnership**

- a. The scheme needed more publicity both for workers and employers.
- b. Research explored that there was great initiative on the part of domestic workers to get enrolled in the scheme. Hence, likely to benefit the community (i.e. below poverty line families) and contribute to social development through implementation of Insurance scheme
- c. Employers were not willing to pay for health insurance of domestic workers because the high turnover of employees. Some of the structural problems with the existing scheme: the scheme only covers hospitalization, insurance companies were concerned about fake claims and overcharging by some hospitals, hospitals had problems with payment of dues.

**2. SSCBS-101: Investor Sentiment in Indian Financial Market: An Empirical Study**

This project is a student-faculty interdisciplinary project undertaken within the Delhi University In-novation Scheme, an initiative by the University to encourage and inculcate innovative thinking. The project aims to devise an index measuring

the sentiment of investors and help the various stakeholders in the financial markets.

After studying the Indian Financial Market extensively, it is observed that investor sentiment plays an important role in equity markets. The study begins by following a top down approach and select proxies which act as reflectors to create an index.

The index is able to capture and quantify the investor sentiment which is evident by its performance during the crisis period, which is in clear accordance with the real economic situation. The index also depicts high sentiments during the economic boom of 2005-07. Thus the study shows that sentiment is quantifiable via the use suitable proxies.

### **3. SSCBS-204 - Financial Inclusion-issues and challenges: An empirical study**

The project is taken with the feelings that it is our moral and professional responsibility to contribute towards that section of society which is deprived of development and neither able to contribute in the development of economy nor able to take benefit of them. Our research based on secondary and primary data analysis have concluded that there is a Strong Structural Financial Exclusion in India which can't be permanently resolved only through subsidies or Policy packages rather through some commercially viable and self-sustainable approach. The project is successful in deriving some feasible models which will enable the financial inclusion on commercially viable basis and will eliminate the financial untouchability from the economy.

### **4. SSCBS-201: Predicting the Financial Crisis of Companies based on Cash Flow Statement: An Innovative Approach**

- a. The study succeeded in developing a distress classification model to be used to predict the financial bankruptcy of companies by introducing suitable cash flow ratios that shall in turn increase the accuracy range for the subsequent periods of the study.
- b. The model accurately predicted the financial bankruptcy of companies with an accuracy of 85% up to a period of one year prior to the actual event and with an accuracy of 70% five years prior.

With a concrete model in place to discriminate among companies which are financially stable from those which are likely to go bankrupt, following are the possible contributions to the society:

- The company's managers can assess the bankruptcy risk and continue the company activity by the use of the model and avoid the excess losses and worsening of the company's situation by accomplishing planning and proper action.
- The model can be useful in selecting and purchasing the stock of companies by investors. The prediction of the financial situation of the firm can help the investors and creditors to be trustful of the return on

investment and demand and avoid excess expenses as much as possible.

- Financial and credit institution and banks can assess the companies by the use of the model, and also in the process of the credit rating of the companies and decision making regarding credits, the use of the model results in more accurate and scientific outcomes.

#### 5. SSCBS-203: E-Mentoring in Delhi University

This project was aimed at helping the students develop contact with senior students and get guidance.

- ❖ The students have active participation in different business competitions such as, Business plan competition, Business quiz, etc. Recently, some of the students have represented our country in **China** as part of social entrepreneurship. Some other awards won by students are: A BBS 2<sup>nd</sup> year student won all expenses paid seven days educational trip by The Institutions of European Union in Brussels, Belgium in recognition of having met the higher standards of excellence at the **Antaragni Leadership Initiative 2013**, a debating competition organized by IIT Kanpur in association with Delegation of European Union.
- Two students from BBS 2<sup>nd</sup> year, were selected for the Student Ambassadorship Program of the **S P Jain School of Global Management, Dubai.**
- A B.Sc. 2<sup>nd</sup> year student developed application for Blackberry; developed application for Tizen Mobiles, a product of Samsung and received a cash award of \$100, he also developed an application on the Marmalade platform for Windows. He has received number of awards for application development.
- A B.Sc. 2<sup>nd</sup> year student is a recognized developer for Microsoft. His applications have been featured on major blogs like wpcentral.com and phonearena.com. Some national achievements are, NOKIA YOUR WISH is MY App 2013, Student Ambassador for Firefox and Google, Application development in DVLUP for Nokia), 19 applications developed over Symbian and Windows platform, etc.
- Software developed by students of the college for time table/management of Internal Assessment and Attendance has benefitted staff thereby improving the efficiency, service and record keeping.

We believe above mentioned application developed by the students have contributed to product development in the industry and also in college.

**3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?**

The college is in the process of developing a “research journal” based on the recommendations made by research committee to incorporate the research projects done by faculty members and students collectively.

**3.4.3 Give details of publications by the faculty and students:**

<b>Publication per faculty</b>	<b>5.02</b>
<b>Number of papers published by faculty and students in peer reviewed journals (national/international)</b>	<b>187</b>
<b>Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database, International Social Sciences Directory, EBSCO, etc.)</b>	<b>0</b>
<b>Monographs</b>	<b>0</b>
<b>Chapter in Books</b>	<b>11</b>
<b>Books Edited</b>	<b>3</b>
<b>Books with ISBN/ISSN numbers with details of publishers</b>	<b>2</b>

More details are available in Annexure 1A and 1B.

**3.4.4 Provide details (if any) of**

**\* research awards received by the faculty**

**\* recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**

**\* incentives given to faculty for receiving state, national and international recognitions for research contributions.**

- **Dr. Abhishek Tandon** awarded by Society for Reliability Engineering, Quality and Operations Management for Exemplary Potential and Promise in Research. (2009)
- **Dr. H.K. Porwal** rated “Outstanding” based on overall evaluation by appraiser and reviewer for his performance in University Tenaga National, Kuala Lumpur, Malaysia during years 2000/2001 and 2001/2002.
- **Dr. Anuja Mathur** awarded as Best Teacher by Directorate of Higher Education, NCT of Delhi (2011).
- **Dr. Sameer Anand** awarded as Best Teacher by Directorate of Higher Education, NCT of Delhi (2012).
- **Dr. Anamika Gupta** awarded as Best Teacher by Directorate of Higher Education, NCT of Delhi (2013).

- **Dr. Ajay Jaiswal** awarded as Best Teacher by Directorate of Higher Education, NCT of Delhi (2014).
- **Ms. Sonika Thakral**, Research paper titled ‘Replica Placement via capacitated vertex cover, FSTTCS 2013’ was selected for oral presentation at Research Scholar Day in Association for Computing Machinery, Annual Event 2014.(Out of a total of approximately 50 submissions across India, 7 were selected for an oral presentation and some for poster presentation)
- **Ms. Sonika Thakral**, Research paper titled ‘Replica Placement for Directed Acyclic Graphs, FSTTCS 2014’ was selected for oral presentation at IRISS (Inter Research Institute Student Seminar) collocated with Association for Computing Machinery, Annual Event 2015.(only 16 of the total submissions were selected for oral presentation)

### **3.5 Consultancy**

#### **3.5.1 Give details of the systems and strategies for establishing institute-industry interface?**

The college has been encouraging institute-industry interface by involving industry experts for providing mentoring to students and faculty on various research projects. This in future will be a strong foundation for furthering a mutually beneficial relationship with the industry and fostering an environment for academic industry participation.

#### **3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?**

We conduct seminars and workshops frequently to promote interaction with the industry. This is believed to be a strong platform to publicize the available expertise thereby promoting consultancy.

#### **3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?**

The college is open to providing all infrastructural and administrative facilities to staff engaged in consultancy.

#### **3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.**

The college has available expertise in the areas of management and technology. We were awarded a consultancy project “Intervention for socio-economic well-being of under privileged women in Delhi” by Delhi Commission for women in 1999 with a grant of Rs.60,000. We also received a grant of Rs.25,000 for minor research project on “Targetted Public Distribution System” in 2006 by UGC. Encouraged by the availability of expertise and our performance in the past, the

college is engaged in laying the ground work for inviting more consultation projects on an ongoing basis in future.

**3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?**

University of Delhi guidelines are followed in this regard.

**3.6 Extension Activities and Institutional Social Responsibility (ISR)**

**3.6.1 How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?**

The institution strongly believes that inculcating social responsibility and human values in the students is as important as preparing them for academic success. We put our best efforts in ensuring that our students learn the challenges of living as a whole. For this kind of holistic development of students, we make them connect to the community and neighborhood, sensitize them towards the needs of the less privileged, and make them aware of their responsibilities towards the society and nation by engaging them in various activities undertaken by NSS and different societies in the college. The college encourages all these activities by providing funds and necessary administrative support. The teachers in-charge of the societies involved in such activities closely monitor the functioning and are available to students for guidance. Details of a few such activities are listed below.

- Our students collect leftover materials from the fests of various colleges under Project *Nirvana*.

**Enactus - Entrepreneurial Action and Us**

Enactus SSCBS has a three-fold objective of economic, social and environmental betterment. Currently, the society is involved in three outreach programmes, *Sanitation Solutions*, *Project Akshar* and *Gramoddhar* whose details are mentioned below.

❖ **SANITATION SOLUTIONS**

**Need:** Project Sanitation Solutions is a social outreach initiative aimed at improving the sanitary conditions of women in slums and villages across India – and at the same time providing them an avenue to earn a sustainable livelihood and build a better standard of living.

**Community:** The target community is women in slums and villages between the ages of 13 and 45.

**Business model:** The business model of the project works at eliminating the middlemen in the whole process of acquiring sanitary napkins so that the sanitary napkins are obtained at a reasonable price and the profit margin can serve as

supplemental income for the entrepreneurs. Eventually we delink, and the women entrepreneurs are capable interact with the manufacturers directly and undertake the sales. We also partner with different governmental and non-governmental organizations to widen our reach.

**Impact:**

- To raise awareness about the benefits of using sanitary napkins, regular awareness camps and health check-ups are conducted in the outreach areas by Enactus SSCBS, where women are encouraged to talk freely about menstruation, associated stigmas, and diseases that may be caused by lack of hygiene during the period.
- For our entrepreneurs, we organize training camps with the objective of imparting financial skills relating to book keeping, saving and investing. Teaching aides like effective role plays and interactive demonstrations are also used to expose them to the different situations they may face on the job.
- From the sale of sanitary napkins, every entrepreneur's household income has been substantially increased, hence improving their standard of living. We currently have 85 entrepreneurs earning a monthly supplemental income of Rs.900 and have impacted a total of 35,747 women.

❖ **AKSHAR**

**Need:** Project *Akshar* aims at providing affordable educational resources to economically backward children while also empowering a marginalised community and promoting environment sensitization. The notebooks are made from recycled paper.

**Community:** The entrepreneurial model enables the communities of economically backward deaf individuals, physically handicapped people and victims of drug abuse, by setting up a low cost environment-friendly notebook production unit to be fully administered and run by the members of the target communities. The notebooks created are provided to rural children who do not have proper access to education.

**Business Model:** Our recycling partner collects paper from various sources such as corporates, schools and resident societies and after recycling it sends it to our entrepreneurs. Our entrepreneurs use these recycled sheets to make the eco-friendly Akshar notebooks. In our final step, we reach out to various corporates, schools, colleges and retailers with our notebooks, to ensure recurring demand.

**Impact:**

- i. Akshar has managed to save:
  1. 110 tonnes of carbon footprint,
  2. 1870 trees,
  3. 2000000 liter of water,
  4. 451000 kwh of electricity and

5. 29000 litres of oil.
- ii. An increase in each of our entrepreneur's income from Rs.5500 to Rs.7700 in 2014 for over 12 entrepreneurs.

❖ **GRAMODDHAR**

**Need:**

- i. *Income disparity:* 70% of income in village Ghamroj, Haryana, concentrated in 25% of population.
- ii. *Caste discrimination:* Geographically isolated community of Harijans denied the right to permanent residence.
- iii. *Gender discrimination:* Orthodox restrictions limit freedom of village women.

**Community:** The target community is the people of the village Ghamroj and we aim to ensure their social and economic upliftment.

**Business Model:** The team got the villagers involved in income generating activities and initiated and developed various business models to promote financial sustainability. **Shringaar** is one such business model wherein the team has identified women entrepreneurs and helped them set up their own beauty parlour. The other business venture, **Alankaar** (boutique), is an initiative that aims to uplift the standard of living of widows in the village by encouraging them to make bags from used cloths and providing a sales channel for the same. Backyard poultry farming, done with the "kuroiler" breed of birds is the third venture. The newest venture, which is currently being explored, and in the pilot stage, is biogas.

**Impact:**

- i. 4 Entrepreneurs earning an income of ₹ 1200 per month from poultry farming.
- ii. 3 entrepreneurs earning an income of ₹ 1700 per month from the initiative Shringaar (beauty parlour)
- iii. 3 entrepreneurs earning an income of ₹ 1500 per month from the initiative Alankaar (boutique)

**Kartavya (The Social Service Society)**

*Kartavya*, the social service forum of SSCBS, strives to reach out to those who are not as privileged as many of us and make whatever little difference in their lives we can in our own simple ways. The aim is to mobilize college students for helping people from the underprivileged sections of the society by providing them volunteer opportunities and engage them into simple acts of kindness. Since the inception of the college, Kartavya society has been involved in community service. Blood Donation camps, collection drives, awareness camps about social issues, promotion of NGOs are some of the regular activities undertaken by the college.

In September 2013, college started National Service Scheme (NSS) chapter of University of Delhi. Since activities of NSS and Kartavya were overlapping, both the societies were merged and renamed the society as NSS-Kartavya. Some of the major activities undertaken under NSS and Kartavya society are listed below:

- Blood Donation Camps: Every year, blood donation camps are organised in the college. Awareness about blood donation is spread across the college. Lot of student volunteers donate their blood enthusiastically. For last few years, the camp has been organised in association with Rotary Club.
- Collection Drives: Every year, collection drives of used material is organised with the help of Goonj NGO. Student volunteers and teacher-in-charge come up with new ideas of organising collection drives. In past, camps have been organised to collect stationary items, old books, fruits, old cloths etc. Collected items had been distributed to NGO Goonj, Deaf and Dumb School at Karkarduma, Manovikas charitable trust at Surajmal Vihar, Blind School at Shahdara, to name a few.
- Promote NGOs: Student volunteers and teachers-in-charge help various NGOs by putting them their stalls in college premises and in functions organised by college. NGOs promote their activities through this platform and display their work. Stalls of materials prepared by those NGOs are put up and college staff is motivated to help the NGOs.
- Awareness Campaigns: NSS- Karvatya team is actively involved in spreading awareness about social issues like dengue, swine flu, cleanliness and hygiene, blood donation etc.
- A major project undertaken by the team was to spread awareness about pension among senior citizens. Nearby colony in Jhilmil was chosen for this purpose.
- Philanthropy week: Every year, society organize philanthropy week of 5 days where various activities are performed including blood donation camp, plantation drive, campaign against social stigma, book stall, talks on issues like stress management etc.
- Trust Library: A library was created from the books donated by students of the college. Books were put up in the open rack in college premises where any student could pick the book, read it and keep it back when done. Students were encouraged to share books with others.
- Fund raising: Various innovative ways are adopted by the team to raise funds which is used for promotion of various NGOs.
- Responsible citizen: Team has been organizing awareness about rights of voting during election time. Lot of students volunteered for helping needy people in the elections during the voting in 2013-14 and 2014-15. Among many participants, 4 students of our college team got the privilege to attend

Asia Youth Leader Summit in 2013 to discuss about meaningful engagement of youth in democracy, governance and development processes.

- Community Involvement:
  - ❖ Entertainment evening for underprivileged: Every year, team organise a movie screening for underprivileged children for various NGOs. An evening full of entertainment is organized for those children.
  - ❖ NGO meet: An NGO meet is organized by the college where children of various NGOs participate and showcase their talent. Various competitions like Rangoli making, Singing, Dancing, Drawing and coloring, story writing etc. are organized. All the material is provided by the college team. Participants are encouraged by giving lots of prizes and gifts.
  - ❖ Conducting Workshops: College team has been organizing workshops for underprivileged children of various NGOs. Workshops on self-defence, story-telling, Vedic mathematics, best out of waste, flower making, clay modeling etc. have been organized in the past by the team. Expert people from various areas are chosen to conduct the workshops.
  - ❖ *Wish Tree*: An innovative way of bringing smile to underprivileged children was adopted. Team interacted with underprivileged children of various NGOs and collected a list of their wishes. Wishes were then put up on a tree in college premises. Staff of the college committed and fulfilled that wish. Kartavya team collected all the gifts and distributed to those children.
  - ❖ Inclusive Society: College team has been organizing events for differently abled people of the society. Team has been instrumental in promoting material prepared by children of *Manovikas* charitable trust where mentally challenged children are trained to prepare candles, cards, posters and similar stuff. Team also has been organising various competitions like chess competition for blind children along with NGO *Drishti*, *Udaan* event with Rotary club, Vivek Vihar, to name a few.
  - ❖ Collaboration: Students of our college have collaborated with Teach India program of Times of India. The purpose is to conduct classes on English conversation and personality development. Students of our college conduct these classes for needy students.

#### **Verve – The Street Play Society**

*Verve*, the street play society is a group of enthusiastic, energetic and informed youngsters who are interested in exploring the intricacies of the social structure through the inclusive medium of street theatre. Street Plays are chosen to communicate with the masses as they break away from the conventional preaching and instead present ideas in either satirical or humorous ways which are

popular and more easily understood. MANTHAN is the annual street play festival organized by Verve wherein it joins hands with the street play societies of various colleges across the country. It is an effort to transform the mind-set of the viewers with the belief that the power to do so lies within them.

**3.6.2 What is the Institutional mechanism to track students' involvement in various social movements/activities which promote citizenship roles?**

To track the activities of the students in various community projects taken up by the college, the teachers in-charge of the societies whose students are involved in such activities carefully monitor their contribution and only after satisfying themselves with the quality of work done by the students, provide attendance waivers for the time period devoted to social welfare activities.

**3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?**

To gauge the stakeholders' perception on the overall performance and quality of the institution, we use as indicators their willingness for pursuing association with us and extending support. For instance, KPMG has been associated with our social initiative projects in the past and continues to provide guidance and entrepreneurship. KPMG also provided a scholarship grant of Rs.4 lacs in the year 2013-2014 for students from weaker sections on a need-cum-merit basis. 44 students benefitted from this program. It also extended a scholarship grant of Rs.4.58 lacs (approx.) for a similar cause and 32 students benefitted from it. Our Social Entrepreneurship Project competed at National level and further as National Champions got an opportunity to represent the country at the Enactus World Cup held at Beijing in 2014. All these reflect stakeholders' perception on the overall performance and quality of the institution.

**3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.**

The college manages societies like ENACTUS-SSCBS and Kartavya (NSS) under which major extension and outreach programmes are organized. Some of the programmes undertaken by these societies have been listed in 3.6.1.

Impact of above programmes on the overall development of students:

- Increased sensitivity towards economic, social and environmental betterment of underprivileged sections of the society.
- Awareness towards importance of saving water, trees, electricity, oil
- Enhancement of entrepreneurial skills by developing business models
- More consciousness towards health care
- Development of interactive and communication skills

- Under NSS, we organize blood donation camps, social welfare workshops to reach out to the underprivileged sections of the society.
- Under Project *Hunar*, we reach out to the youth and impart training for increasing their employability. The college has tie ups with various NGOs and collaborate with them for collection drives. Tree plantation drives and collection drives are held throughout the year. The impact of these extension and outreach programmes has contributed to promote citizenship roles and thereby holistic development of students.

<b>BUDGETORY DETAILS FOR OVERALL DEVELOPMENT OF STUDENTS</b>											
Enactus/Sife (₹)				Kartavya+NSS (₹)				Verve+Manthan (₹)			
2014-2015	2013-2014	2012-2013	2011-2012	2014-2015	2013-2014	2012-2013	2011-2012	2014-2015	2013-2014	2012-2013	2011-2012
20000	20000	15000	10000	20000	35000	30000	25000	45000	40000	35000	20000

### **3.6.4 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International agencies?**

The institution encourages students and faculty to participate in extension activities by bringing awareness about one's duties towards mankind, and by giving recognition to their contributions. Students are motivated to work with the underprivileged by providing them value based education. The teachers at SSCBS maintain healthy communication channels with students and work towards inculcating a sense of social responsibility in them, exposing them to the ground realities and the problems of the poor and deprived through social welfare workshops. The NSS society of the college, *Kartavya*, has various flagship programmes like Project *Boond*, *Hunar*, *Nirvana* where the students are encouraged to participate and make contribution to the society. Apart from organizing such programmes/events, we also actively participate in initiatives taken by the University of Delhi/other agencies in this direction. Besides, we have been consciously appreciative of the efforts made by students towards social causes, and have been highlighting their contributions by honoring the best student in each society at the Annual Day of the college. A few steps taken by us to enhance participation in extension activities are listed below.

#### **➤ Gyanodya**

University of Delhi, to broaden the perspective of education and extend it beyond mere geographical boundaries, organizes the Gyanodya Trip. We have been enthusiastically participating in/contributing to this innovative and novel project which is aimed at comprehensive empowerment of the students by endowing

them hand-on knowledge of the world outside the classrooms. Details of this trip for the last two years are mentioned below.

- *2014-15*: The theme was based on study of the Demand and Supply of Handloom Industry. Students visited Assam.
- *2013-14*: The theme of was “Urbanisation Now and Then”. Sixteen students of the college got an opportunity to be a part of this trip. The team visited Kanpur, Varanasi, Bhopal, Ahmedabad and Surat during trip and chose the topic ‘Tourism Industry’ with specific topic as ‘Bhopal Tourism - A Potential Treasure’ as the subject of their study.

#### **Best all round Student award**

The college has instituted the best all-round student award. Each year the award is given to a student who has not only been an exceptional performer but has also made contributions to the college through initiatives in organizing and participating in college activities

#### ➤ **Society awards**

The college emphasizes on teaching both within the environment of a class room as well as by giving the students opportunities to explore their potential in various fields. The college thus boasts of myriad societies in the area of dramatics, music, dance, social initiative, finance, economics, marketing etc. These contribute to the overall learning and development of the students. The society awards are given to appreciate and recognize the exemplary contribution of the students towards their societies. A list of awards given to students of various societies in 2013-2014 is given in Table 1.\

#### ➤ **National/International Achievements**

The potential of our students has been recognized by various National/International agencies at many instances. This sets an example and boosts the morale of other students. A few such achievements have been listed below (International and National Achievements of other years may be referred to from the corresponding Annual reports).

##### • **International Achievements (2013-2014)**

- i. A BBS 2<sup>nd</sup> year student won all expenses paid seven days educational trip by The Institutions of European Union in Brussels, Belgium in recognition of having met the higher standards of excellence at the **ANTARAGNI LEADERSHIP INITIATIVE 2013**, a debating competition organized by IIT Kanpur in association with Delegation of European Union.
- ii. Two students from BBS 2<sup>nd</sup> year were selected for the Student Ambassadorship Program of SP Jain School of Global Management, Dubai.
- iii. A B.Sc. 2<sup>nd</sup> year student developed application for Blackberry; developed application for Tizen Mobiles, a product of Samsung and

received a cash award of \$100; he also developed an application on the Marmalade platform for Windows. He has received a number of awards for application development.

- **National Achievements(2013-2014)**

- A B.Sc. 2<sup>nd</sup> year student is a recognized developer for Microsoft. His applications have been featured on major blogs like wpcentral.com and phonearena.com. Some national achievements are, NOKIA YOUR WISH is MY App 2013, Student Ambassador for Firefox and Google, Application development in DVLUP for Nokia), 19 applications developed over Symbian and Windows platform, etc.
- Software developed by students of the college for time table has benefitted staff thereby improving the efficiency, service and record keeping.
- We believe above mentioned application developed by the students have contributed to product development in the industry and also in college.

Top performing student members of each society are recognized each year. List of 2013-14 awardees is as below:

<b>Society</b>	<b>Awardee</b>
Blitz	Shubhangi Rustogi
CDC	Damandeep Kaur
Communique	Rishabh Raj
Crescendo	Sakshi Gupta
Darkroom	Vishal Soni
Dhwani	Nikita Khanna
DUMUN	Surbhi Malhotra
Ecovision	Mayur Gupta
Enactus	Mrigank Sanghvi
FinX	Manu Gupta
Illuminati	Surbhit Ahuja
Kronos	Mayank Yadav
MIC	Apoorva Goyal
Mark-It	Dhruv Narula
Renaissance	Nakul Sehgal
Synergy	Pallavi Kaul

*Table: Society Awards*

**3.6.5 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?**

We understand that future lies in the hands of children and that education is every child's right. Educating young minds is indispensable for the overall growth of a nation. Realizing that children from under-privileged sections of the society lack guidance on the academic front because of scarcity of resources, our NSS volunteers interact with such students through social welfare workshops and motivate them. The college is involved in Project *Akshar*, which envisions providing educational aids to students in need. Details of activities undertaken as a part of this project are mentioned in 3.6.1.

**3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.**

In the present scenario, where a developing nation like ours has to keep pace with the ever growing global competitiveness, imparting only academic knowledge to our students is not adequate. Extension activities help the students grow into wholesome individuals and identify their purpose in life. With the aim of holistic development of our students and inculcating ethical values in them, we emphasize on supplementing the knowledge imparted to students with the real challenges of the outer world and sensitizing them towards their responsibility towards the society. Our students have been benefitting from the exposure obtained by active participation in various outreach programmes. They are fully conscious of their social responsibilities and stay ahead when it comes to extending services for noble causes.

**3.6.7 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?**

Various societies of our college are aimed at overall upliftment of socially and economically marginalized sections of society. The goal of various activities planned by these societies is to disseminate sustainable growth of targeted communities in all respects. To make this achievable, we involve the community in our out-reach activities. By working in collaboration with those whom we research, we are able to address real social problems better. This helps us help our subjects by providing promising and long lasting solutions to their problems, and overcoming their scarcities. Some of the initiatives taken by us in this regard are given below.

- The students of the college are engaged in social entrepreneurship projects (Enactus SSCBS) where they have adopted a village and promote awareness amongst the villagers and help them to augment their income.
- Under NSS, the students organize Blood Donation Camps. Training is given to the underprivileged youth in nearby areas for employment related skills. Collection drives are held wherein members of the community can come forward and give their contribution. Social welfare workshops are held to solicit participation of children and senior citizens.

**3.6.8 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.**

We understand that in order to work for the bigger goals of overall development of the nation, and upliftment of under-privileged sections of the society, we need to join hands with other bodies/organizations/agencies headed in the same direction. This not only enables us to nurture new techniques and methodologies through exchange of ideas, but also helps our students learn the traits of team work and collaboration. Therefore, to accelerate progress by mutual exchange of findings and observations, our institution has taken steps to build constructive relationships with other organizations. Some of these are listed below.

- The college under the Project *Hunar* has undertaken to train the youth living in the nearby area to increase their employability.
- Under NSS, the students organize Blood Donation Camps in collaboration with Rotary Club.
- Inclusive Society: College team has been organizing events for differently abled people of the society. Team has been instrumental in promoting material prepared by children of *Manovikas* charitable trust where mentally challenged children are trained to prepare candles, cards, posters and similar stuff. Team also has been organizing various competitions like chess competition for blind children along with NGO *Drishti*, *Udaan* event with *Rotary club*, Vivek Vihar.

**3.6.9 Give details of awards received by the institution for extension activities and /contributions to the social /community development during the last four years.**

The contribution made by our students towards social/community development has been recognized at many instances. A few such achievements have been listed below.

- Our ENACTUS team was winner in the social entrepreneurship competition called Bain seeds of Hope in 2013-2014

- Our ENACTUS team was the winner in iSEED competition (Walmart Women's Economic Empowerment Project Partnership)
- Our Social Entrepreneurship Project competed at National level and further as National Champions got an opportunity to represent the country at the Enactus World Cup held at Beijing in 2014.

### **3.7 Collaboration**

#### **3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.**

The significance of collaborative research in today's dynamic and competitive world cannot be over-emphasized. To enable free flow of innovative ideas, exposure to new/upcoming research methodologies and techniques, and making broader problem set available to our flourishing researchers, the institution has been supporting collaboration and plans to do so more aggressively in future. A small step in this direction is NSE certified capital Market Professional (NCCMP), a course launched jointly by Shaheed Sukhdev College of Business Studies (SSCBS) and National Stock Exchange of India Limited (NSE) to impart knowledge and awareness about the securities market and thereby upgrade the skills and proficiency of the participants of the course. It is a short term course of a batch of 40 students for 100 hours (80 hours theory, 20 hours practical) about 5-6 months.

#### **3.7.2 Provide details on the MoUs /collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.**

The college is a participant in the UKIERI (UK-India Education and Research Initiative), SIP (Student India Programme). Every year about 40 students from UK visit the SSCBS campus. As a part of the exchange program, in the year 2013-14, two second year students got an opportunity to visit UK academic institutions such as Oxford Brookes University and London South Bank University.

Many of our faculty members are engaged in collaborative teaching at different places.

#### **3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support,**

**infrastructure facilities of the institution viz. laboratories / library/  
new technology /placement services etc.**

The college takes initiative in organizing seminars, workshops and other events under various societies creating a platform for industry-institution-community interaction. This helps in creation and up-gradation of knowledge base, infrastructural facilities and placement services. Our Alumni society actively organizes for frequent interaction between present students and alumni. Such exchange of information with industry gives the students an opportunity to demonstrate their skills and talent to prospective employers thereby enhancing employment opportunities. A few years back the college launched a course, NSE certified capital Market Professional (NCCMP), jointly with National Stock Exchange of India Limited (NSE) to impart knowledge and awareness about the securities market and thereby upgrade the skills and proficiency of the Participants of the course.

YUVA (The Entrepreneurship Cell): The primary objective of the society is to promote entrepreneurship among young budding minds by providing a direct interaction in the form of internship with entrepreneurs thereby fostering the spirit of innovation. The society conducts WYSIWYG (what you see is what you get) through which students get an opportunity to have industry interaction.

Convergence: is an annual corporate convention that aids in the industry-institution-community interaction. MIC organizes industry visits to give hands-on practical exposure to the students.

The above societies contribute in the establishment/creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories/library/new technology/placement services etc.

**3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.**

Several Eminent corporate leaders and researcher have visited the college and interacted with students and faculty members during various seminars/lectures/interactive sessions, etc. Some of them are listed below:

➤ **Convergence 2014-15 (30th and 31st October, 2014)**

The event was based on the theme “Revolution is Evolution”. Some of the most eminent speakers were:

- Dr. V.P. Apan (Lawyer, Supreme Court)
- Dr. C.J. Rawandale (Director, Faculty of Law, Symbiosis, Noida)
- Mr. Yogesh Suman (Scientist ,CSIR)
- Mr. Rajiv Bajaj (Legal Head, Associate Director, Panasonic India)
- Dr. Alka Chawla (Associate Professor, Faculty of Law)

- Mr. Siddhartha Sharma (CEO, Success Monks Performance Consulting)
- Mr. Puneet Sethi (Founder, Director, Aaracle Solutions Pvt. Lim.)
- Mr. Sanjay Singh (President, Hero Cycles)
- Mr. Vikas Jain (CEO and Founder, Adhyan Innovative Learning)
- Mr. Kunal Arora (Co-founder, The Education Tree, University of Delhi).

➤ **Convergence 2013-14 (24<sup>th</sup> and 25<sup>th</sup> January, 2014)**

The event was based on the theme “India’s Way to Develop: Connecting the Dots”. Some of the most eminent speakers were:

- Mr. Sandeep Sanghal, Regional Director, Reserve Bank of India
- Mr. Mayank Malik, CEO, Jordon and Iraq, Citigroup Pvt Ltd
- Mr. Rakshit Tandon, Cyber Security Expert
- Mr. Ajay Prakash Mishra, Director, Emerging Markets
- Mr. Sujeet Panigrahi, CEO, Convergent Technologies Pvt Ltd.
- Mr. K.G. Suresh, Senior Fellow and Editor, Vivekanand International Foundation.

➤ Other eminent speakers in **workshops/Faculty Development Programmes** organized by the college include:

- Mr. Karthik Verma, lecturer and examiner for the National Security Database Empanelment Programs, 10<sup>th</sup> Oct 2014 at SSCBS.
- Mr. Alok Vijayant, Director of Cyber Security Operations, National Technical Research Organization, Government of India, 10<sup>th</sup> Oct 2014 at SSCBS.
- Mr. Mukesh Jain, Director, ST WebSoft, 10<sup>th</sup> Dec to 15<sup>th</sup> Dec, 2013 at SSCBS.
- Mr. Ankur Sardana, Design Manager, Samsung, 12<sup>th</sup> Apr, 2014.
- Mr. Sandeep Bhardwaj, Deputy General Manager, Tata Motors
- Mr. Neeraj Manik, Vice President (Finance), IBM India
- Mr. N.K. Goyal, President CMAI
- Ms. Suhasini Haider, Journalist, CNN-IBN
- Mr. Dharendra Kumar, CEO Value Research
- Dr. Vinod Kumar, Senior Dean, ICFP
- Mr. Suman Kumar, CS, SMC Global Securities
- Mr. Vijay Sethi, Vice President, IT A & Communications, Hero Motocorp.
- Mr. K.T. Chacko, Director, Indian Institute of Foreign Trade
- Mr. Ajay Seth, CFO, Maruti Suzuki India Ltd.
- Mr. B.V. Rao, Chief Editor, Governance Now

- Mr. Rajiv Makhni, NDTV TECHGURU
- Ms. Ishita Chawdhary (CEO, the YP Foundation)

**3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated -**

- a. Curriculum development/enrichment**
- b. Internship/ On-the-job training**
- c. Summer placement**
- d. Faculty exchange and professional development**
- e. Research**
- f. Consultancy**
- g. Extension**
- h. Publication**
- i. Student Placement**
- j. Twinning programmes**
- k. Introduction of new courses**
- l. Student exchange**
- m. Any other**

The college is a participant in the UKIERI (UK-India Education and Research Initiative) SIP (Student India Programme). Every year about 40 students from UK visit SSCBS campus. As a part of the exchange program, in the year 2013-14, two second year students got an opportunity to visit UK academic institutions such as Oxford University.

Though the industry community has been engaged in enhancing and developing curriculum, providing training to students, summer internship and research based activities with the college, no formal MOU/ agreement has been signed between the college and industry.

**3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations.**

- 4 The college through its interaction with academicians and other stakeholders solicits feedback which is incorporated into the development of curriculum, provision of training to students and organization of seminars in areas of contemporary interest. These initiatives have enabled the college to meet its objective of providing holistic development to the students. In particular, our collaboration with the National Stock Exchange is worth mentioning here.



## CRITERION IV: Infrastructure and Learning Resources

### 4.1 Physical Facilities

#### 4.1.1 What is the policy of the institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

Since its inception in 1987 the college has been functioning in a school building, maintained by the PWD. The building was shared between two colleges, viz., Shaheed Sukhdev College of Business Studies and Shaheed Rajguru College of Applied Sciences for Women. To meet the infrastructural requirements of the growing student base and need for labs etc., the college has tried to make the best of the available structure, within the building constraints. More rooms have been constructed; science labs have been converted into computer labs; some rooms have been merged to create rooms with larger space to accommodate larger audience and were equipped with audio-visual facilities to ensure effective communication. In the year 2012, when Shaheed Rajguru College of Applied Sciences for Women shifted to their own premises our college was able to acquire the premises occupied by them and use the same to meet our own infrastructural requirements to augment teaching – learning facilities. It goes without saying that throughout the time we were trying to get suitable land allotted for construction of our own, state-of-the-art building. This dream has also been fulfilled now. Our college has been allotted about 5 acres of land in Rohini, Delhi and a state-of-the-art building is under construction which is likely to be available to the college w.e.f. academic year 2016-17.

#### 4.1.2 Detail the facilities available for

**(a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, animal house, specialized facilities and equipment for teaching, learning and research etc.**

The college has the following facilities for curricular and co-curricular activities:

Table 4.1 (a) Facilities for Curricular Activities

S.No.	Facilities	Details
1	Building Infrastructure	<ul style="list-style-type: none"><li>• Administrative Block<ul style="list-style-type: none"><li>○ Classrooms</li><li>○ 26 lecture rooms fitted with LCD Projectors, screens and whiteboards</li><li>○ 3 multi-purpose rooms fitted with LCD Projectors, screens and audio system</li></ul></li><li>• Library<ul style="list-style-type: none"><li>○ An up-to-date, well-stocked, KOHA</li></ul></li></ul>

		<p>enabled Library with reading room, photocopier facilities and internet-enabled online resources.</p> <ul style="list-style-type: none"> <li>• 3 diesel generator sets of capacity 62, 75 and 82.5 KVA to ensure full power backup</li> </ul>
2	Computing Facilities	<ul style="list-style-type: none"> <li>• Wi-Fi enabled campus</li> <li>• 5 computer laboratories having computers with the latest configuration and LCD Projectors</li> </ul>

**(b) Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, public speaking, communication skills development, yoga, health and hygiene etc.**

Despite infrastructural constraints, the college has provided facilities for extra-curricular activities:

Table 4.1 (b) Details of Co-curricular Activities

S.No.	Facilities	Details
1	Space for Organizing Events	<ul style="list-style-type: none"> <li>• Two multi-purpose rooms are used by various students' societies/clubs for their activities.</li> <li>• Student societies also have access to separate rooms for individual society activities</li> <li>• One room is used for students' presentations, group discussions, debates etc.</li> <li>• Two rooms have been allocated specifically for use of the drama and music societies</li> </ul>
2	Organizing Events	<ul style="list-style-type: none"> <li>• Professional trainers are hired for grooming students for various student activities such as music, dance and drama</li> </ul>
3	Sports Activities	<ul style="list-style-type: none"> <li>• A table-tennis room for indoor sports</li> </ul>

**4.1.3 How does institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).**

At present the college is functioning in a school building. The building is owned by the Govt. of NCT of Delhi and is maintained by the Public Works Department. During the last two and a half decades the college has been expanding the infrastructure and creating facilities as per the needs, within the given constraints, for its academic growth.

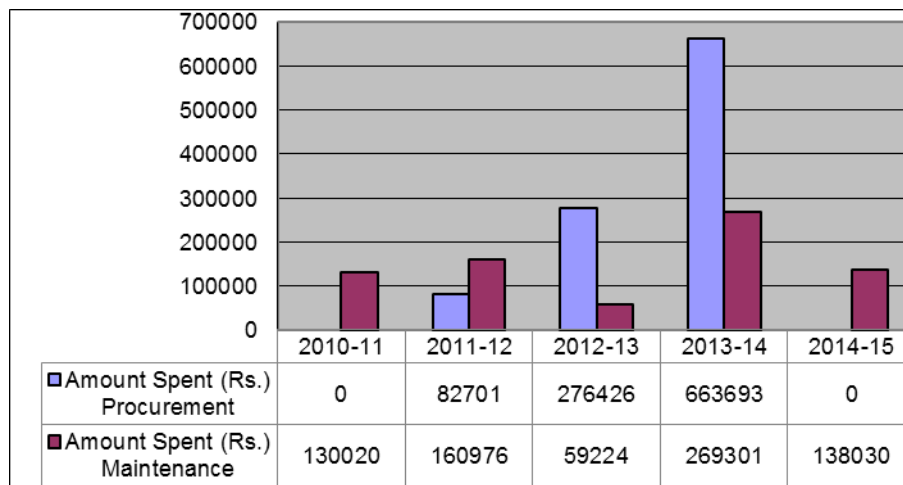
The college also caters to the activities of social outreach such as NSS and Enactus by offering space and the required equipment to organize and participate in the various events.

In the year 2012, when Shaheed Rajguru College of Applied Sciences for Women shifted from our campus to their own campus, the college could add:

- Four staff rooms for teachers;
- Six class rooms;
- Two activity rooms;
- One sports room;
- One electronics lab to our existing infrastructure.

The entire college campus has been made Wi-Fi and all the computers of the college are networked and are in turn connected to University of Delhi servers through an optical fibre link. The PWD spends on development of various infrastructure facilities required by the college.

Amount spent on procurement and maintenance of computers and accessories



Our own campus is coming up at Sctor-16, Rohini on a 5 acre plot. The Govt. of NCT of Delhi has sanctioned about Rs. 130 crores for construction of a state of the art building along with hostels for both boys and girls and a few staff flats. About 10% of the construction has already been done and it is scheduled to be completed by August 2016.

The facilities the new building would include:

<b>Highlights of the Building:</b>	<b>Green Building Concepts and</b>
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<ul style="list-style-type: none"> <li>• 60 State of the art Class rooms and 8 computer laboratories</li> <li>• 40 twin sharing faculty rooms</li> <li>• Library with designated areas for reading (reading cubicles and reading halls) and stack hall for 50,000 books</li> <li>• Conference &amp; Seminar Room</li> <li>• Centrally air-conditioned building</li> <li>• Fully modernized administrative block</li> <li>• 400 person Auditorium</li> <li>• 500 seat amphitheatre</li> <li>• Separate Hostel facility for 150 girls and 150 boys</li> <li>• Common rooms for students</li> <li>• Yoga centres</li> <li>• Multipurpose hall for indoor games</li> <li>• Designated area for sports</li> <li>• Under Ground Car Parking and eight stories high</li> <li>• Faculty and Staff Quarters</li> <li>• CCTV Security</li> <li>• 13 passenger lifts</li> <li>• Estimated project cost is over ₹ 130 Crores</li> <li>• Estimated time for completion is 22 months</li> </ul>	<p><b>Energy Efficiency features:</b></p> <ul style="list-style-type: none"> <li>• Use of adequate window areas for getting natural light and ventilation</li> <li>• Use of ultra star-rated electrical fittings, fans, A/c pumps and plants to save electricity</li> <li>• Use of CFL lights in circulation area and toilets</li> <li>• P. V. cell system for all street and compound lighting</li> <li>• Provision of Solar Water Heaters for supply of Hot-Water for various uses</li> <li>• Provision of sewage treatment plant and re-use of waste water for flushing and gardening</li> <li>• Rain Water Harvesting</li> <li>• Roof insulated with foam concrete to reduce heat gain</li> <li>• Use of Fly ash bricks</li> <li>• Use of ready mix concrete</li> <li>• Use of gypsum plaster to avoid curing and to save water</li> <li>• Granite stone cladding for external surfaces (up to first floor) and Aluminium Composite Panels cladding above for maintenance free external facade</li> </ul>
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<p><b>Highlights of the Building Plan:</b></p> <ul style="list-style-type: none"> <li>• Utilizing maximum FAR and Height as per Building Bye-Laws and Fire regulations</li> <li>• Modular planning by adopting grid system to achieve flexibility in design with basement car parking</li> <li>• Provision of facilities for differently-abled persons</li> <li>• Ramp has been provided for approaching plinth floor level</li> <li>• Adequate door width to enable wheel-chair users to visit any part of the building</li> </ul>
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**4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?**

The current facility for physically disabled students has certain infrastructural constraints. However, the college is soon to be shifted to a new location where all the requisites for students with special needs shall be provided.

**4.1.5 Give details on the residential facility and various provisions available within them:**

- **Hostel Facility – Accommodation available**
- **Recreational facilities, gymnasium, yoga centre, etc.**
- **Computer facility including access to internet in hostel**
- **Facilities for medical emergencies**
- **Library facility in the hostels**
- **Internet and Wi-Fi facility**
- **Recreational facility – common room with audio-visual equipments**
- **Available residential facility for the staff and occupancy Constant supply of safe drinking water**
- **Security**

Hostel facility is not available as of now. However, the same along with other above listed facilities shall be available in the new college campus at Rohini.

**4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?**

Health-care facilities are available to staff and students as per the University of Delhi rules. Further, within the college, a first-aid box is available for students and staff. In case of emergent medical needs, services of nearby nursing homes and hospitals are availed.

**4.1.7 Give details of the Common Facilities available on the campus – spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.**

Following common facilities are available on campus:

- Five staff rooms for teachers with safe drinking water facility in every staff room
- A separate room for placement unit
- The college provides a dedicated space for placement activities with office space for the Placement Officer; separate meeting room, multi-purpose room with audio-visual facilities and internet access for holding talks, written tests and interviews etc.
- A spacious canteen
- Four safe drinking water coolers
- Two activity rooms

- Two multi-purpose rooms are used by various students' societies / clubs for their activities. Student societies also have access to separate rooms for individual society activities
- One sports room
- Due to paucity of space the special units like Grievance Redressal unit, Women's Cell, and other committees use a common Conference Room for holding their meetings. The college does not have its own auditorium as of now.

## **4.2 Library as a Learning Resource**

### **4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiative have been implemented by the committee to render the library, student/user friendly?**

The library has an Advisory Committee named as "Library Committee". There are two departments in the college, viz., Department of Management Studies and Department of Computer Science. Teacher In-charge of the respective departments, student representatives of each department and Librarian, as Convener, are member of the committee. The basic objective of the Library Committee is formation of library polices for the smooth functioning of the library keeping in mind the interest of the all the students, faculty and staff of the college.

Library Committee has taken many initiatives for the betterment of the college library:

- Library Automation using the Open Source Integrated Library Management Software KOHA, which has the facility for open public access catalogue viewing and book reservation, etc.
- The library is enrolled as an Institutional member of the Developing Library Network (DELNET) for maximum resource accessibility
- In order to provide assistance and support to the students belonging to Economically Weaker Section (EWS) category, the library has purchased a set of books that are kept exclusively for the use of students belonging to the EWS category. The list is an ever-expanding one.
- There is a special section of books on Hindi literature
- Library committee ensures purchase of current titles, print & e-journals, and other reading material for the library
- Faculty recommendations are taken on a periodic basis and efforts are made to acquire as many as possible within University of Delhi guidelines.
- Stock verification
- Taking feedback from the students
- Responsible for decision on weeding-out of books

- Renewing, addition and deletion of subscribed journals/magazines list
- Library has started the process of bar coding of books and other documents.

**4.2.2 Provide details of the following:**

<b>Total area of the library (in Sq. Mts.)</b>	258 Sq. Mts.
<b>Total seating capacity</b>	31 Persons
<b>Working hours (on working days, on holiday, before examination days, during examination days, during vacation)</b>	9.00 A.M to 5.30 P.M (Monday to Friday) on all working days round the year
<b>Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)</b>	Circulation Counter, Reference Area, Reading Hall, Stack Area, Journal/Periodicals Section, Newspaper Display Area, Property Rack and Faculty Reading Room.

**4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last five years.**

The college faculty recommends books to be purchased by the library and the library also ensures the availability of current titles by consulting Book vendors, Publisher's catalogue and Publisher's website. Newly purchased books are displayed at the new arrival section of the library. The amount spent in the last five years under the different heads is as below:

Library Holdings		2010-11	2011-12	2012-13	2013-14	2014-15
<b>Books</b>	<b>Number</b>	611	840	846	705	
	<b>Cost (Rs.)</b>	317,327	409,154	386,344	332,916	
<b>Periodicals</b>	<b>Number</b>	41	41	43	48	
	<b>Cost (Rs.)</b>	69,902	86,702	105,416	106,202	
<b>Newspapers</b>	<b>Number</b>	13	13	13	13	
	<b>Cost (Rs.)</b>	13,611	16,959	18,824	20,184	
<b>E-Resources</b>	<b>Number</b>		Access to E-Resources of UGC-INFONET & DULS	Access to E-Resources of UGC-INFONET, DULS & DELNET	Access to E-Resources of UGC-INFONET, DULS & DELNET	
	<b>Cost (Rs.)</b>			16,500	11,500	
<b>Total</b>		400,840	512,815	527,084	470,802	

**4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?**

<b>OPAC</b>	Yes (One Terminal)
<b>Electronic Resources Management Package for e-journals</b>	Access to E – Resources of DELNET – Developing Library Network (User name and password provided by the same Institution) and Access to DULS & UGC-INFONET, E- Resources are provided in house through University of Delhi Website
<b>Federated searching tools to search articles in multiple databases</b>	As provided by UGC-INFONET (JCCC) and DULS (Knimbus)
<b>Library Website</b>	Locally accessible from Library
<b>In-house/remote access to e-publications</b>	Yes, in-house
<b>Library Automation</b>	Yes, Library uses KOHA
<b>Total number of computers for public access</b>	1
<b>Total numbers of printers for public access</b>	No
<b>Internet bandwidth / speed: 2 mbps / 10 mbps / 1 gbps</b>	10mbps
<b>Institutional Repository</b>	No
<b>Content management system for e-learning</b>	No
<b>Participation in Resource sharing networks/consortia (like INFLIBNET)</b>	Yes, DELNET & DULS

#### 4.2.5 Provide details on the following items:

<b>Average number of walk-ins</b>	Approx. 200 Per Day
<b>Average number of books issued/returned</b>	63 Per Day
<b>Ratio of library books to students enrolled</b>	16 Books Per Student
<b>Average number of books added during last five years</b>	813 (Per Annum)
<b>Average number of login to OPAC</b>	Approx. 60 Per Day
<b>Average number of login to e-resources</b>	Access to E – Resources of DELNET – Developing Library Network (User name and password provided by the same Institution) and Access to DULS & UGC-INFONET E- Resources are provided in house through University of Delhi Website.
<b>Average number of e-resources downloaded/printed</b>	Not Known
<b>Number of information literacy trainings organized</b>	4
<b>Details of weeding out of books and other materials</b>	64+35+30=129 books weeded out. 64 books were weeded out in (2007), 35 books were weeded out in 2008, and 30 books were weeded out in 2012. 90 Video cassettes (2009) + 61 Video cassettes - News track (2009) were also weeded out.

#### 4.2.6 Give details of the specialized services provided by the library

<b>Manuscripts</b>	Nil
<b>Reference</b>	Yes
<b>Reprography</b>	Yes, as per rules
<b>ILL (Inter Library Loan Service)</b>	No
<b>Information deployment and notification</b>	New arrivals are displayed in the library
<b>Download</b>	Yes
<b>Printing</b>	No
<b>Reading list/Bibliography compilation</b>	Yes
<b>In-house/remote access to e-resources</b>	Yes, Access to DULS & UGC-INFONET E- Resources is provided In-house/E-Resources of DELNET are accessible remotely.
<b>User Orientation and awareness</b>	This programme is usually held on Orientation Day of the new session every year
<b>Assistance in searching Databases</b>	Yes
<b>INFLIBNET/ IUC facilities</b>	Electronic Resources accessible through Delhi University Library System. <a href="http://crl.du.ac.in/sub.database/SUBS.E-RESOURCE.htm">http://crl.du.ac.in/sub.database/SUBS.E-RESOURCE.htm</a>

#### **4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college**

Following services are provided by the library to its users:

- Using of OPAC facility
- Reference Service
- Circulation service
- New Arrivals
- Photocopy
- Databases Search through DULS and DELNET
- Provide help in searching library catalogue and locating books at the library stacks
- Help in providing course material, syllabi and previous years question papers
- Article Alert

#### **4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.**

Differently-abled students are given extended time to retain library material.

#### **4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are**

**deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)**

Library receives students' suggestions/requests in person, through emails and suggestion box. Feedback received from the students is placed before the Library Committee for necessary action.

### **4.3 IT Infrastructure**

#### **4.3.1 Give details on the computing facility available (hardware and software) at the institution**

Number of computers with Configuration (provide actual number with exact configuration of each available system):

There are total of 166 Desktop PCs; 499 Laptops & 03 Servers as per the details given below:

##### (A) Hardware

<b>S. No.</b>	<b>Details of Desktop Computers with Configuration</b>	<b>Qty</b>	<b>LAN</b>	<b>Wi-Fi</b>
1	Acer Veriton M200 Series, 2.60 gigahertz AMD Phenom II X4 810/2, 2GB RAM, OS Ubuntu	80	Yes	Yes
2	HP Compaq Mini Tower DX2700, Intel core 2 Duo, E6600, L2 Cache 4 MB FSB1066 Mhz, Speed 2.40 GHz, 512 MB Ram, DDR-II, 80 GB HDD, 1.44 MB FDD, DVD Combo, 15" TFT Monitor. , OS : Windows XP	40	Yes	No
3	HP Desktop Elite 8300, Processor Intel Core i5-3470, 3.2 GHz, 2 GB RAM, 500 GB HDD, 18.5 Inch LED Monitor, OS: Windows 7 Professional	18	Yes	Yes
4	HP Desktop Elite 8200, Processor Intel Core i5-2400, 3.1 GHz, 2 GB RAM, 320 GB HDD, 18.5 Inch LED Monitor, OS: Windows 7 Professional	1	Yes	Yes
5	HP Desktop 3330, Processor Intel Core i3-3220, 3.3 GHz, 2 GB RAM, 500 GB HDD, 20 Inch LED Monitor, OS: Linux	2	Yes	No
6	HP Compaq DX 6120 MT (P-IV, 512 MB RAM, 80 GB HDD, Combo Drive), OS : Windows XP	25	Yes	No
<b>Total</b>		<b>166</b>		

<b>S. No.</b>	<b>Details of Laptop Computers with Configuration</b>	<b>Qty.</b>	<b>Internet Facility</b>
1	HP 4430s /Intel i5 processor, 4gb Ram, 500GB HD, DVD Writer, 14'' Screen, OS ubuntu	10	Yes
2	HP/Probook 445G1, 8GB RAM/AMD Elite A65350M 2.9 GHz Processor, Ubuntu	480	Yes
3	HP/Probook 445G1, 8GB RAM/AMD Elite A105750M 2.56 GHz Processor, Ubuntu	6	Yes
4	HP Note book 4431s, Intel core i7-2620 M, 2.7 GHz processor, 2 GB, Os Windows 7 Professional	1	Yes
5	HP Note book 4430s, Intel core i5-2430 M, 2.4 GHz processor, 2 GB, Os Windows 7 Professional	1	Yes
6	HP 455 Notebook, AMD Dual Core E1-1200, 1.4 GHz Processor, 2 GB	1	Yes
<b>Total</b>		<b>499</b>	
<b>Server Configuration</b>		<b>Qty</b>	
Acer Server Intel Xeon(R) CPU E-5620 @ 2.40 GHz (2 Processor) with windows 2008 (Server) R2 installed		2	
IBM Server XSeries 226, Xeon 3.20 Processor, 146 HDD, 2 GB RAM, DVD Combo, OS : Windows Server 2003		1	
<b>Computer-student ratio</b>	634 / 1197 = 1:2		
<b>Stand-alone facility</b>	Nil		
<b>LAN facility</b>	81 PCs are on LAN		
<b>Wi-Fi facility</b>	This facility is made available through 6 Access Points (11g) centrally managed by Router (Zone Director). As many as 603 Machines are having wireless access		
<b>Licensed software</b>	Details of Licensed Software are given below		
<b>Number of nodes/computers with Internet facility</b>	166 Desktop PCs + 22 PCs under process of condemnation		
<b>Any other</b>	The college has a total of 16 Printers; 03 Scanners; 11 UPS (5-10KVA); 02 Xerox Machine		

**B. Licensed Software:**

<b>S. No.</b>	<b>Software</b>	<b>Qty</b>	<b>License Holder</b>
1	MS-DOS ver 5.0	1	College
2	Turbo Pascal Ver. 7.0	1	
3	SCO-UNIX O.S. ver 3.2	1	
4	Oracle for Unix ver 5.0	1	
5	MS COBOL ver 5.0	1	
6	Clipper ver 5.2	1	
7	Turbo C++ ver 3.0	1	
8	BorlandnTurbo C++ for Windows ver 4.5	1	
9	Upgrade Dbase 4.1.0 50 1.5	1	
10	Upgrade Dbase 4.1.0 50 1.1	1	
11	Windows 95	1	
12	MS Office 97 Professional Edition	1	
13	Turbo C++ Windows version4.5	1	
14	Windows NT ver 4.0	1	
15	Windows SvrStd 2003 R2 English OLP D	1	
16	Windows Server CAL-2003 English OLP D User CAL	22	
17	Office Pro 2003 Win32 Indic OLP NL	4	
<b>Total number of Licensed Software</b>		<b>41</b>	

**4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?**

Computer and Internet facility is made available to the faculty and students on the campus. Out of a total of 499 Laptops, 480 laptops (Make: HP, Model: Probook 445G1, 8GB RAM/ AMD Elite A65350M 2.9 GHz Processor, Specs: Ubuntu 12) have been provided to students. 19 laptops have been given to Faculty which includes 16 laptops with AMD Elite A10 5750M 2.56 GHz Processor and 3 laptops with Intel i5, i7 & AMD Dual Core processor.

On campus, 166 Desktop Computers are available in various departments (details given below):

S. No.	Department	Number of PCs
1	Library	8
2	Computer Lab 1	39
3	Computer Lab 2	32
4	Computer Lab 3	33
5	Computer Lab 4	40
6	Placement Cell	1
7	Office	13

The College has 03 Servers, 16 Printers and 03 Scanners. The College is a part of National Knowledge Network's fibre optic Gigabit Network through University of Delhi with present Internet speed of 100 Mbps.

Students and faculty members avail computing & internet facility within their departmental laboratories as well as in common facility such as whole campus including Library area. The entire campus is Wi-Fi enabled. Students and faculty have been provided Wi-Fi authenticated User ID & Password for Internet access.

#### **4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

The college continuously upgrades the common IT Infrastructure facilities as well as ICT Infrastructure in the departments as per the need of the curriculum.

- In the beginning the college started with a few Intel 8086/286 processors based system having DOS environment without any LAN.
- Today, because of successful institutional plans and strategies, the college boasts of state-of-the-art computer centres equipped with Servers, Printers, Desktop Machines, Laptops, LCD Projectors, and Scanners of latest configuration.
- The college Library system is automated using KOHA, and soon we will develop an automated environment in administrative office.
- Students can access their attendance online with the help of the unique login Ids.
- Every financial year, requirement for purchase of new ICT equipment are invited from all the departments which are reviewed and then sent to Govt. of NCT of Delhi for seeking grants and approval of purchases.
- The regular upkeep, maintenance, deployment and upgradation work is being carried out through personnel of Computer labs.

As soon as we shift to our new building, the whole IT environment of the college will change. Large scale changes in infrastructure and automation of all the departments and processes are under way.

**4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)?**

**Amount Spent on Procurement & Maintenance  
of Computers and Accessories**

S. No.	Year	Amount Spent (Rs.)	
		Procurement	Maintenance
1	2010-11	0	130,020
2	2011-12	82,701	160,976
3	2012-13	276,426	59,224
4	2013-14	663,693	269,301
5	2014-15	0	138,030

**4.3.5 How does institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students?**

Computer aided teaching-learning material is available to staff and students in the classrooms, computer labs and library to facilitate extensive use of ICT resources.

Use of ICT resources in academic activities is encouraged through:

- Students' use of computer projectors for in-class presentations
- Faculty members use projectors for presentations and simulations etc.
- Internet connectivity allows the faculty to bring the corporate world a bit closer into the classroom in an effective manner
- Some students and teachers also utilize social media for interactions

**4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching – learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the center of teaching-learning process and render the role of a facilitator for the teacher.**

Learning activities revolve around class-room teaching in various forms such as Assignments, Class-tests, Project Reports and Presentations. They are supplemented by co-curricular activities involving seminars, workshops, conferences, summer training, Industrial Projects, quiz competitions etc. and extra-curricular activities such as debates, dramatics and those of Eco club, NSS, photography club, DUMUN club, Finance Club and Sports.

There are many ways in which teaching-learning resources have been deployed and made accessible for use by students to make them independent learner. Some

teachers send their assignments on the class group mail id which is easily retrieved by the students for their benefit.

ICT enabled class-rooms, Computer labs, and Library are the learning spaces through which teachers facilitate student-centred learning. Teachers too are encouraged and facilitated to use ICT equipment. Some faculty and students have been provided with individual laptops for better teaching-learning process. Access to software like SPSS, Mathematica, Capitaline, and Matlab is available through centrally connected university server.

The library has an Institutional membership of Developing Library Network (DELNET) and its databases are accessible through worldwide web using the web address <http://delnet.nic.in>. Most importantly, all our college library activities have been automated using the complete modern Web-based Open Source Solution-KOHA, an internationally renowned Integrated Library Management System (ILS). The basic objective of using the KOHA is meeting the needs of its users by providing easy access to the resources, viz., Books, Journals, Newspapers and Electronic resources.

Students, Faculty and Staff members can easily check the status of the library resources by accessing the Online Public Access Catalogue supports advanced search strategies by displaying enhanced catalogue using content from Amazon, Google, and Library Thing etc.

#### **4.3.7 Does the institution avail of the National Knowledge network connectivity directly or through the affiliating university? If so, what are the services availed of?**

Yes, the College avails the National Knowledge network connectivity through the parent university. There are various services that are being availed using NKN backbone namely:

- Delhi University Wide Area Network (WAN).
- College Local Area Network (LAN).
- Local Resource Sharing Services of Delhi University Library System.
- Internet Services through dedicated Fibre Optic Network presently with 100 Mbps speed.
- Library has an Institutional membership of Developing Library Network and its database is accessible through worldwide web using the web address <http://delnet.nic.in>.
- Video Conferencing and Virtual class room activities through the University developed app called Virtual Learning Environment (VLE).

#### **4.4 Maintenance of Campus Facilities**

**4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantial your statements by providing details of budget allocated during last four years)?**

The college has been spending on acquisition and maintenance of various assets / equipment as per requirement. Teachers in-charge of various departments submit requisition for required assets to the Principal. The Principal, after obtaining approval of the college Governing Body, forwards the same to the purchase committee, which procures the required items by following the prescribed General Financial rules (GFR).

Amount spent on maintenance of various equipment/assets, for the last four years, is as follows:

S. No.	Particulars	2010-11 (Rs.)	2011-12 (Rs.)	2012-13 (Rs.)	2013-14 (Rs.)	2014-15 (Rs.)
1	Building		13,08,029	1,14,72,394	32,95,519	
2	Furniture	43,902	99,940	93,885	1,45,097	1,18,980
3	Equipment	2,00,155	77,589	1,42,276	2,03,018	1,59,280
4	Computers	1,30,020	1,60,976	59,224	2,42,301	1,38,030
5	Vehicles	1,56,215	1,87,975	1,48,760	1,78,599	1,57,106
6	Any Other	68,198	11,595	2,610	26,166	34,446

**4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure facilities and equipment of the college?**

College building is maintained by the Delhi Government through PWD. The college Care Taker looks after routine maintenance of the college building. College has trained personnel (1 Scientific assistant, 3 Technical assistants and 5 Lab Attendants) to look after the smooth functioning of computer equipment and networking. Valuable/vital equipment, such as Generator sets, Computer equipment, UPSs, Photocopy machines, etc. are kept under annual maintenance contract.

**4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?**

We do not have equipment/instruments which require calibration and other precision measures.

**4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?**

College has full power back-up with three-phase electric supply, voltage stabilizers and UPSs. The college maintains computers and other facilities through its own staff and through the PWD, as applicable.

## CRITERION V: Student Support and Progression

### 5.1 Student Mentoring and Support

#### 5.1.1 Does the institution publish its updated prospectus/handbook annually? If yes, what is the information provided to students through these documents & how does the institution ensure commitment and accountability?

The college publishes its information bulletin every year. It provides information on the following:

- Vision and mission statement
- Brief history of the college
- Courses offered
- Admission procedure
- Attendance rules
- Examination and internal assessment rules
- Infrastructure available
- Faculty details of different departments
- The institution ensures its commitment and accountability by working through committees and taking into account feedback from students. Information regarding convenors of various societies and rules related to maintenance of discipline including those pertaining to sexual harassment and ragging is provided.

The information is also available on college website and is updated regularly.

#### 5.1.2 Specify the type, number & amount of institutional scholarships / freeships given to students during the last four years and whether the financial aid was available and disbursed on time?

Table 5.1.2 Details of Fee Concession, Scholarship and Wards

	2010-11		2011-12		2012-13		2013-14	
	No.	Amt. (₹)	No.	Amt. (₹)	No.	Amt. (₹)	No.	Amt. (₹)
KPMG scholarship	1	10350	26	400000	36	457540	44	400000
Financial Assistance	6	96250	4	33720	10	101800	NIL	NIL
Freeship for wards	NIL	NIL	3	50780	2	25050	1	5225

#### 5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

Students belonging to underprivileged sections of the society viz. SC/ST/OBC/Minorities and differently abled have received financial assistance from Govt. of NCT of Delhi and from the University of Delhi. The initiative is taken by the students for availing financial assistance and the college endorses and forwards their application. The assistance received is directly credited to the beneficiaries account and thus the information is not available with the college.

#### **5.1.4 What are the specific support services/ facilities available for?**

- ✓ **Students from SC/ST, OBC and economically weaker sections**
- ✓ **Students with physical disability**
- ✓ **Overseas students**
- ✓ **Students to participate in various competitions/ national and international**
- ✓ **Medical assistance to students: health centre, health insurance etc.**
- ✓ **Organizing coaching classes for competitive exams**
- ✓ **Skill development (spoken English, computer literacy, etc.)**
- ✓ **Support for “slow learners”**
- ✓ **Exposures of students to other institution of higher learning/ corporate/ business houses etc.**
- ✓ **Publication of students magazine**

The support services/ facilities available are:

- For students from SC/ST/OBC and economically weaker section the college provides scholarship and fee concession. Students from economically weaker section are also allowed to keep the books from the library for a longer duration. The college has collaboration with organizations like KPMG to aid economically weaker students through financial assistance in the form of scholarship on merit-cum-means basis. Additionally, the college supports economically weak students through provision of laptop and books.
- The college supports differently abled students by offering these facilities; 3% reservation of seats, giving extra time and providing readers or writers as per their requirements during examinations, not charging any tuition fee from them, putting up signage and special attention of the professors while in the class. The current facility of the college has certain infrastructural constraints; however, the premise is soon to be moved to a new location with all requisites to be made available for the differently abled. However, the premise is soon to be moved to a new location with all the requisites made available for differently abled students.
- Overseas students are provided support by teachers, staff and students of the college. They are provided guidance by teachers. Mentoring by buddies (student volunteers) is done to make the overseas students familiar and comfortable in the new environment.

- The College encourages students to participate in competitions both national and international. For local events transportation facility is provided to the students. At the beginning of the semester the college allocates a budget to each society which can be used for refreshments, registration charges and commuting during competitions. Students are also given 50% subsidy for travel during national competitions. Attendance waivers are given to students for participation in these activities. For international competition, college has no specified grant. However initiative is taken by the college to raise sponsorships from the corporates and University.
- There are two hospitals within one Km from the college and some private nursing homes within 3 kms. All students are registered with WUS to avail medical treatment at nominal rates as per the university rules. Within the college, a medical kit is also available.
- For enhancing inter-personal skills the college conducts Employability Skill Session (ESS). The college also facilitates spoken English course run jointly by Teach India and British Council. For computer literacy college organises ICT workshops, seminars and guest lectures.
- The faculty is sensitive to the needs of all the students and they make special effort to identify students requiring special attention. Continuous monitoring of students in terms of attendance, class participation and internal assessment is done by the faculty. In every teacher's time table there are designated counselling and interactive sessions during which the students can contact them and get personalised attention and academic support. Parents of students who are slow learners or are differently abled meet with the Principal and the faculty to discuss the special needs of such students.
- The college has organized trips to various institutions, corporate and business houses to provide exposure to other institutions of higher learning. Industrial visits have been organised to places like Mother dairy, Yakult, Coca-Cola and National Stock Exchange. The students also participate in inter college festivals like IIT, IIM, MDI and FMS and get an opportunity to interact with the students and faculty of these institutions. Compulsory summer internship after the 2<sup>nd</sup> year gives the student an experience of interacting with the industry and working on live projects. National Certified Capital Market Professional course (NCCMP) training in collaboration with National Stock Exchange (NSE) is offered to students for practical understanding of the financial concepts.

The college is a participant in the UKIERI (UK-India Education and Research Initiative), SIP (Student India Programme). Every year about 40 students from UK visit the SSCBS campus. As a part of the exchange program, in the year 2013-14, two second year students got an opportunity to visit UK academic institutions such as Oxford Brookes University and London South Bank University.

- Pathmanjari, the college annual magazine provides a platform to the students to showcase their literary skills and creativity. The students are on the editorial board of the magazine along with the teacher coordinator.

**5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.**

Entrepreneurship is a way of life where one learns to take initiative, be creative, solve problems, seek opportunities, and convert ideas into reality.

- The college students are provided with a platform to imbibe life skills like innovation, team building, conflict management, stress management and leadership by encouraging them to organise, participate and raise sponsorship for over 20 student societies. Support and encouragement is provided to the students coming up with innovative ideas for a new society.
- Entrepreneurship sessions are held to equip our students with entrepreneurial knowledge and skills. In these sessions industry practitioners, entrepreneurs and alumni are invited to interact and share their knowledge and experience with the students.
- YUVA, the entrepreneurial cell of the college has a primary objective of promoting entrepreneurship among young minds by providing a direct interaction in the form of internships/projects with entrepreneurs thereby fostering the spirit of innovation and providing a platform to convert ideas into reality. The college launched its incubation centre in September 2010 in association with National Entrepreneur Network (NEN). It is a setup which carries out the mission of promoting innovation and entrepreneurship to enable and seed business operations with guidance in product design, know-how acquisition, financial mobilisation for a young entrepreneur and providing network opportunities. Since its inception it has been known for churning out budding entrepreneurs and successful start-ups.
  - a) The first edition of ‘TEDx University of Delhi’ was organized by YUVA, which gathered some of the best creative and active thinkers from across the country.
  - b) Yuva is proud to have painted a 1200 sq. ft. scannable QR Code. The Limca Book of Records certified their QR code as the largest in the country. WYSIWYG an acronym for What You See Is What You Get is a conference being organised by YUVA, every year.
- The student society of ENACTUS-Entrepreneurial Action and Us has a threefold objective of economic, social and environmental betterment. Currently the society is involved in three outreach programmes:
  - a) Project Akshar incorporates recycling of waste paper and rehabilitation of drug addicts and victims of human trafficking. Akshar has managed to save 110 tonnes of carbon footprint, 1870 trees, 2000000 litre of water, 451000 kwh of electricity and 29000 litre of oil

- b) Project sanitation solution, has the objective of improving sanitation among women and creating women entrepreneurs in slum areas. They currently have 85 entrepreneurs earning a monthly supplemental income of 900 rupees and have impacted a total of 35,747 women.
  - c) Project Gramodhar has adopted village Ghamroj, Distt. Sohna, Haryana and aims to ensure the social and economic upliftment of the village by creating entrepreneurs out of the villagers in the areas of poultry farming, handicrafts and beauty solutions. 10 entrepreneurs are earning income between ₹ 1200-1700 per month.
  - d) KPMG has been associated with our social initiative projects in the past and continues to provide guidance and entrepreneurship. KPMG also provided a scholarship grant of ₹ 4 lakhs in the year 2013-2014 for students from weaker sections on a need-cum-merit basis. 44 students benefitted from this program. It also extended a scholarship grant of ₹ 4.58 lakhs (approx.) for a similar cause and 32 students benefitted from it. Our Social Entrepreneurship Project competed at National level and as National Champions, got an opportunity to represent the country at the Enactus World Cup held at Beijing in 2014.
- Some of the start-up ventures of the students of our college are as follows:
    - a) Dimensions India Networks Pvt. Ltd. was established in 1999 and is engaged in outsourcing services in the domains of Telecom, Energy and Content Services etc. Today it is a 200 people plus organization with revenues of over \$2 million.
    - b) Catapoolt founded in 2000 is India's fastest growing crowd-funding platform.
    - c) Strategic Moves founded in 2002 is a Market Research Company that did 9 extensive projects for AC Nielsen, UAE, Lintas, Bates India.
    - d) Success Monks founded in 2009 offers training and business consulting. More than 200,000 people have been trained and coached till date.
    - e) iKustomiz'd was founded in 2010 and offers a range of customized apparel which includes t-shirts, sweatshirts, hoodies and merchandise. Their clients include Google, Bain, St. Stephen's College, LSR College, Hansraj College to name a few. Total revenue till date is approximately ₹ 50 lakhs.
    - f) Carkhana founded in 2011 is a revolutionary youth driven organization that managed India's first e-commerce platform [www.carkhana.com](http://www.carkhana.com) for the automotive industry. The firm pioneered the use of online shopping platform for the aftermarket segment and created waves due to its large portfolio of products, industry partnership and customer experience.

- g) Chhotu.in founded in 2010 focuses on last mile logistics for e-Commerce and provides solutions to help their partners become great consumer brands with improved profit margins.
- h) White Magic Adventure Travel founded in 2011 is a specialised adventure travel company that organises treks and mountaineering expeditions across the Himalayas.
- i) Blah founded in 2011 aimed at providing readers with a wide range of articles to catalyse their thoughts and move their minds.
- j) AdWiser founded in 2011 is a social media and digital marketing firm which has designed and executed campaigns for various B2B and B2C clients including iDiscoveri, MINI Bird Automotive etc. The company is also into developing custom websites and has proficiency in multiple platforms such as Google AdWords, Facebook, You Tube and Twitter.
- k) Cogitans Designs founded in 2012 is a Design Studio providing complete range of creative and production services – development, design, production, web, interiors and print organisations.
- l) Addo founded in 2012 is a Marketing Services Firm that seeks to capitalize on the multi-faceted nature of Social Media and its potential as a tool for mass marketing. They have worked across various verticals including F&B, Hospitality, Education and also an International Conference on Bio Diversity.
- m) Owlorders founded in 2013 is a late night food delivery service based in the North Campus (DU) area targeting the outstation student population. The offerings are a variety of products ranging from full-fledged meals to over-the-counter drugs to other essentials.
- n) PGB Marketing Services founded in 2013 is a start-up in the field of online marketing, which offers services like email marketing, social media marketing, banner advertisements, search engine marketing, search engine optimisation, videos and content services.
- o) Contangrow founded in 2014 is a student run body formed with the sole aim and objective of helping a student figure out their career path through a series of corporate interactions.
- p) Contyxt founded in 2014 enables one to network with people sharing common interests and context and have meaningful conversations.
- q) DiscountKar.De founded in 2014 is a one stop for discounts across various food outlets. With a distinct mechanism of an online currency called discoin, it seeks to create an ecosystem of discounts for foodies, and thus change the way discounts work.

**5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, quiz competitions, debate and discussions, cultural activities etc.**

- ✓ **Additional academic support, flexibility in examinations**
- ✓ **Special dietary requirements, sports uniform and materials**
- ✓ **Any other**

Our College has over 20 student activities societies/clubs for organising different extra-curricular activities. These societies organise cultural, business, social and sports events and competitions throughout the year.

- Every society is allocated a budget at the beginning of the academic session. The students are encouraged to take initiative to plan, organise, raise sponsorship and execute the events under the guidance of a teacher coordinator.
- Professional trainers are hired for grooming students for various activities like dramatics, choreography and music.
- Intra college events are held regularly by various societies to encourage talent and prizes and certificates are awarded to the winners.
- Relaxation in attendance as per the rules is provided to students participating in inter-college/ university sports and ECA competitions.
- The College also provides refreshments to the students participating in sports and other extra-curricular activities. Transportation facility is also provided for inter college competitions.
- Society awards are given to students to recognize and appreciate the exemplary contribution of students towards their society.
- The college has also instituted the Best All Round Student Award. Each year the award is given to a student who has not only been good in academics but has also made contributions to the college through initiatives in organizing and participating in extra-curricular activities.

The faculty helps students who have missed classes during the counselling and interactive classes.

**5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appealified in various competitive exams such as UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / central/ state services, defense, civil services, etc.**

Most of the students opt for placement after graduation and go for higher studies after gaining some work experience. Some students do go for higher studies or prepare for central/state services but no formal record is maintained by the college.

**5.1.8 What type of counselling services are made available to the students (academic, personal, career, psycho-social etc.)**

- The college provides academic counselling through Entrepreneurial Sessions to second year students. These sessions aim at actively promoting entrepreneurship amongst college students. The 12 hour (per week) sessions inculcate in the minds of young students the need and the benefits of being an entrepreneur. The faculty members are trained entrepreneur educators certified by National Entrepreneur Network (NEN). In these sessions Industry Practitioners, Entrepreneurs and Alumni are also invited to interact and share their knowledge and experience with the students and guide and mentor them.
- Employability Skills Sessions (ESS) of twenty hours (per week) equips the students for all the requisite skills to join the corporate workforce. The behavioural traits learned through the workshops greatly enhance their potential for success in GDs/Interviews for PG courses. The basic ESS course focuses on communication skills both verbal and non-verbal, Resume and Cover Letter, Group Discussions, Written tests, Case Study and Guess Estimates and Personal interviews. The workshops are conducted by industry experts and certified trainers.
- There is also a structured mechanism for career guidance which help students identify job opportunities, prepare themselves for interviews and also make informed career choices. The college has a full-time Placement Officer providing career counselling and summer internship and placement services. This is also facilitated through AESS-Advanced Employability Skill Sessions. The 40 hours (per week) AEE sessions are aimed to bridge the gap between “*What the industry wants?*” and “*What the academics offer?*”. Workshops are conducted throughout the year, focusing on group discussion & interview skills, case studies, management, leadership development, problem-solving and negotiation, innovative and possibility thinking, corporate etiquettes, off-campus placement strategies and professional networking. The skill-set acquired by the students through the workshops makes them job-ready professionals for practical corporate scenarios. Our aim is to produce-“self-actualized knowledge professionals” whose winning potential grows to the best of its capacity.
- Other than this the faculty provides personal and psycho-social counselling in an informal manner to all the students as and when required. Counselling is done in several areas ranging from issues of abuse, domestic violence, career and stress related issues. The names of the help seekers are kept confidential.

**5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If yes, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).**

SSCBS was the first undergraduate college under the University of Delhi to have a full-fledged placement cell headed by a placement officer looking after provisions of final placements, internships and providing industry student interface.

The college has a career development cell (CDC) headed by a full time placement officer.

- The cell maintains a computerised data bank of companies that recruit management and computer science graduates and ensures that the placement is commensurate with their abilities and aspirations. A list of frequently asked questions and case studies are given to the students before the placement starts so that they are well prepared. Pre placement talks are conducted by the recruiters to apprise the students of what the industry is looking for. Once the students are selected they are encouraged to hold sessions with the junior batch and share their experiences.
- Companies from diverse industries have been recruiting and offering final placements and summer internships to our students. Our professional placements rank among the best in India, with growing number of reputed companies visiting our campus every year and the placement exercise setting new benchmarks each time. Companies from 15 different sectors that include marketing, consulting, banking, real estate, shipping, insurance, media, IT and knowledge research offer a diverse mix of profiles that include strategic consulting associates, business analyst, equity and research oriented positions. The efforts of the CDC team in the form of corporate presentation and alumni connect resulted in 162 offers from 33 companies in 2013-14. The highest package of ₹ 10 lakhs per annum was offered by Reckitt Benckiser. The largest number of offers have been made by Ernst and Young (EY) and Smart Cube. The average package of the year was ₹ 5.5 lakhs per annum.
- All students are required to undergo a six to eight week summer internship at the end of their 2<sup>nd</sup> year. This gives the students practical exposure to the corporate world. They are required to submit a project report with a certificate from the industry mentor at the end of the internship. A viva-voce validates their learning. Students have undertaken summer internship at leading companies like BCG, Airtel, Bain Consulting, Coca- Cola, Google, Hindustan Times, Pepsico, Nokia, NTPC etc.

There is a structured mechanism for career guidance which helps the students identify job opportunities, prepare them for interviews and make informed career choices. This is facilitated through Employability Skills Session (ESS), Advanced Employability Skill Sessions (AESS), Entrepreneurship sessions and Knowledge and Research Cell.

- a) ESS and AESS are conducted to bridge the gap between the industry needs and academics and gives a competitive edge to our students. These sessions

- include resume building, cover letter writing, case studies, guess-estimations, group discussions, personal interviews and interactive session with recruiters.
- b) Workshops are conducted to enhance the employability skills focussing on management and leadership development, business communication, problem solving and negotiation, innovation, corporate etiquettes and time management. These are conducted by industry experts and alumni.
  - c) The entrepreneurship sessions are conducted to equip our students with entrepreneurial knowledge and skills. The resource persons engaged are trained entrepreneur educators certified by National Entrepreneur Network (NEN). Industry Practitioners and Entrepreneurs are invited to interact and share their experiences. They also guide and mentor our students.
  - d) The Knowledge and Research Cell (KRC) has been created keeping in mind the industry expectations and giving maximum learning exposure to the students. It has undertaken live projects like Launching a Pan DU Website which aims to act as a platform where students across DU get to know about various industries, the economy and fundamentals that govern it. They also learn strategies and innovations in the market and gain from the knowledge and experience of the best professionals from the industry. It also plans to publish research papers in the areas of marketing, finance, entrepreneurship, leadership, communication and organizational behaviour. Efforts are also directed at arranging fellowships for students with reputed business houses and industry forums.
- NSE Certified Capital Market Professional course (NCCMP) is run by the college jointly with the National Stock Exchange of India Limited (NSE) with the objective to impart knowledge and awareness about the securities market and thereby upgrade the skills and proficiency of the participants of the course. Since its inception in 2010 five batches have successfully completed this programme.
  - Case studies: Matching theory and practical exposure is imperative in the world of management. Our faculty strives to utilize relevant case studies- both of national and global relevance to help our students understand and enhance their understanding of various concepts and apply this knowledge.

The following companies have visited the college during the last 4 years:

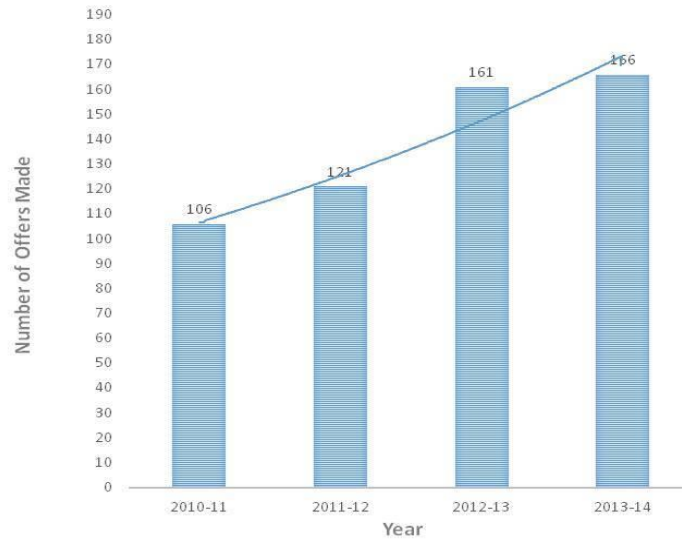
1. Bain Capability Center	23. McKinsey Knowledge Centre	45. SAP
2. AT Kearney	24. CBRE-GSS	46. Cians
3. Reckitt Benkiser	25. Jones Lang LaSalle	47. Viacom 18
4. KPMG	26. ROC Search	48. Ken Research
5. Ernst & Young		49. Green Thumbs
		50. Wieden & Kennedy

6. American Express	27. Affle	51. Worlds Window Group
7. CBRE	28. SVG Media	52. Spire Research and Consulting
8. DE Shaw	29. WONE	53. HCL
9. UBS Verity	30. VMock	54. Max Life
10. Google India	31. Capital IQ	55. Decathlon Sports India
11. ICAP Shipping	32. NODWIN	56. Axiosm
12. Zomato	33. Protivity	57. Assocham
13. Nomura	34. ARM Digital Media	58. Zeus Capital
14. Aon Hewitt	35. Den Networks	59. DLF
15. Smart Cube	36. Eos Capital	60. Manaar
16. Max Life	37. Rescon Partners	61. Towers Watson
17. Axis Risk Consulting	38. Technopark	62. Bootstrap
18. Blackrock	39. Boring Brands	63. Mettl
19. Bloomberg	40. Adept Media	64. D&G Consultants
20. Inflexion Point	41. Module One	65. Car Dekho.com
21. Baring PE	42. ZS Associates	66. Ace Insurance
22. Boston Consulting Group	43. Egon Zehnder	
	44. Knowcross Solutions	

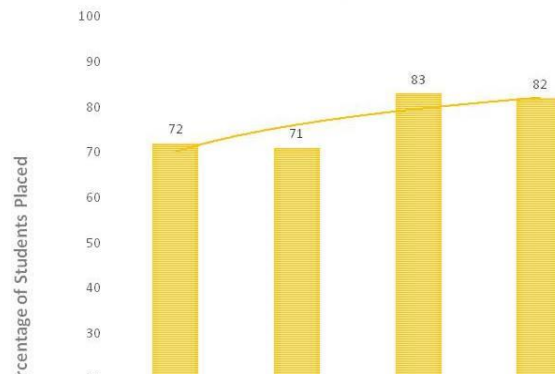
The percentage of students selected during campus interview by different employers is given below:

Year	No. of students enrolled for campus Placements	Number of students who received placement offers	% of students selected during placement drive
2010-2011	148	106	71.62%
2011-2012	171	121	70.76%
2012-2013	191	161	82.72%
2013-2014	202	166	82.17%

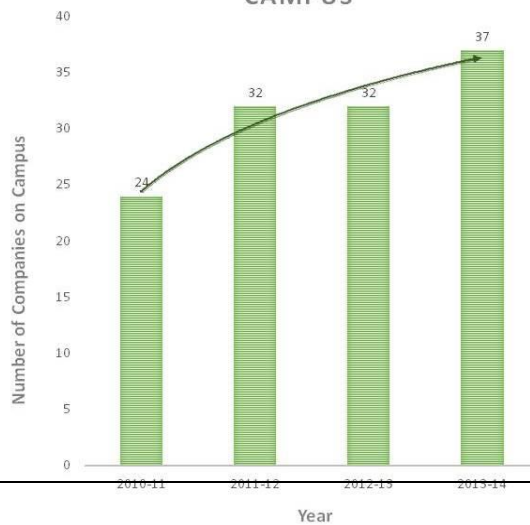
### NUMBER OF OFFERS MADE/ STUDENTS PLACED



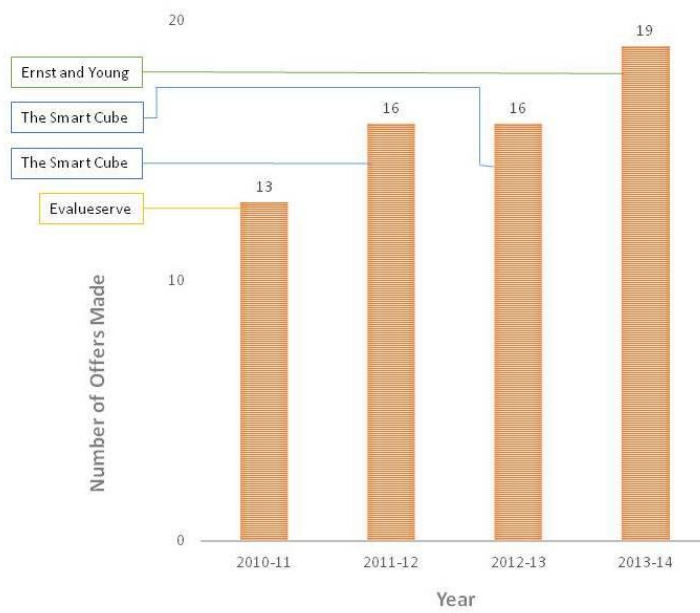
### PERCENTAGE OF STUDENTS PLACED



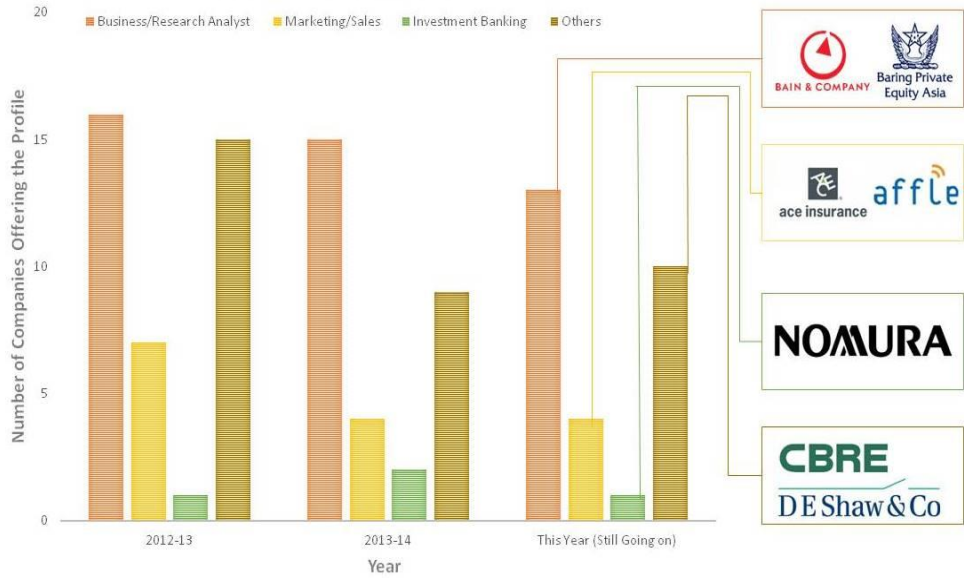
### NUMBER OF COMPANIES ON CAMPUS



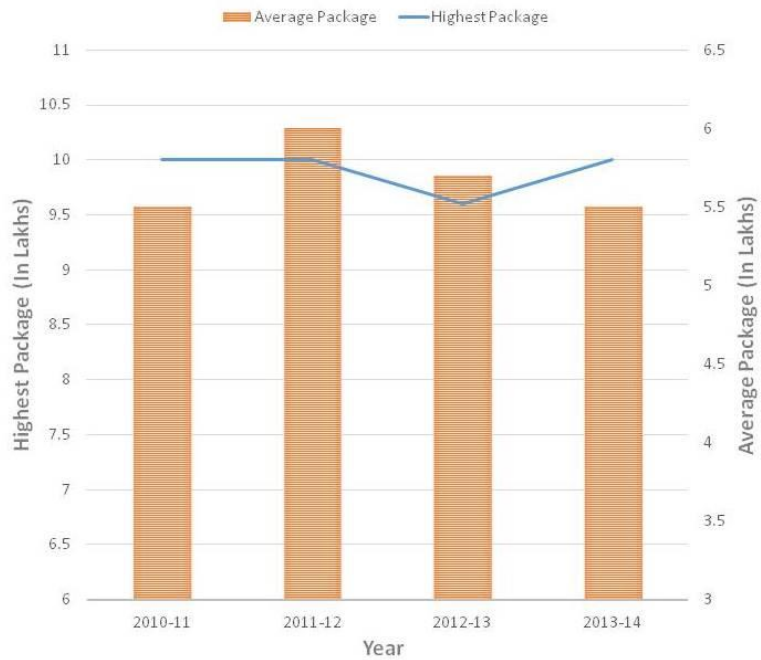
### NUMBER OF OFFERS MADE BY LARGEST RECRUITERS



### COMPANY PROFILES



### SALARY PACKAGE



**5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) grievances reported and redressed during the last four years.**

College has a student council which comprises of class representatives from each section, teacher in charges of all the departments, lab in charges, librarian, placement officer, care taker, system network administrator and is chaired by the Principal. A student council meeting is held regularly to take feedback and suggestions for improving the learning environment.

- Formal student feedback is taken twice during a semester-mid semester and end of semester. This can be submitted online or directly to the office.
- A suggestion/ complaint box is also placed in the campus.
- Necessary action is taken for timely redressal of grievances of the students.
- There is also a specific email-id for receiving suggestions, grievances, feedback and recommendations of the students.
- Personal grievances are also handled carefully in a sensitive manner during counselling sessions by the faculty.

**5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment**

- As per the directives of the university, the college has constituted a committee against sexual harassment. It involves representation of two teachers, two members of non-teaching staff, two students and two eminent persons from outside the college such as advocates, professors etc.
- The committee has more than 50% women members.
- The college also organizes lectures, workshops and street plays to sensitize staff and students on these issues.

**5.1.12 Is there any anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?**

- The college has constituted an anti-ragging committee consisting of experienced teachers from different departments. Contact details of all the committee members are prominently displayed on the notice board and the same information is also available on college website.
- In the beginning of the academic year the committee members visit each and every classroom to create awareness about ragging issues and its consequences.
- No cases of ragging have been reported in the college during the last four years.

**5.1.13 Enumerate the welfare schemes made available to students by the institution.**

Welfare facilities in the form of monetary assistance and educational tools are made available by the college:

- Scholarships and financial assistance is given to students from economically weaker sections. College has collaborated with KPMG to aid economically weaker students through financial assistance in the form of scholarships on a merit-cum-means basis.
- Students from economically weaker sections are allowed to keep books from the library for a longer duration.
- All students are registered with WUS to avail medical treatment at nominal rates as per the university rules. Within the college, a medical kit is available.
- No fee is charged from differently abled students.
- Freeship is given to wards of the staff members. Besides the wards of staff members get preference in admission on supernumerary seats in B.Sc. Computer Science course.
- Laptops have been provided to all students as per the university policy.

**5.1.14 Does the institution have a registered Alumni Association? If yes, what are its activities and major contributions for institutional, academic and infrastructural development?**

- The college has a registered alumni association.
- Regular feedback is taken from Alumni and recruiters for improving the curriculum and teaching pedagogy. After receiving feedback and suggestions from them for the need of a finance focussed under graduate program, the college started Bachelor Of Finance and Investment Analysis course in 1999. BFIA curriculum was developed by the college and approved by the University of Delhi. Since its inception the course has undergone 3 curriculum revisions based on feedback from Alumni, Recruiters and some senior academicians.
- The Alumni also conduct workshops, guest lectures and career counselling session to apprise the students about the latest trends in the industry.
- The alumni also come back as recruiters and offer job placements and summer internships to the students.
- Many alumni help the students raise sponsorships for various society activities.
- To facilitate alumni interaction a web based system has been developed by the students and faculty of the college wherein an alumnus (mentor) can connect to the current student (mentee) through a website for academic and professional guidance. The website is under testing phase.

- The Knowledge and Research Cell (KRC) was set-up based on the feedback received from our alumni. It has been designed to give maximum learning exposure to students keeping in mind the industry expectations.

## 5.2 Student Progression

5.2.1 Provide the percentage of students progressing to higher education or employment (for the last four batches) highlights the trends observed.

### Student progression %

- UG to PG
- PG to M.Phil
- PG to Ph.D.
- Employed
  - Campus selection
  - Other than campus recruitment

Most of the students opt for placement after graduation and go for higher studies after gaining some work experience. Some students do go for higher studies but no formal record is maintained by the college.

The percentage of students selected during campus interview by different employers is given as below:

Year	No. of students enrolled for campus placements	No. of students who received placement offers	% of students selected during placement drive
2010-2011	148	106	71.62%
2011-2012	171	121	70.76%
2012-2013	191	161	82.72%
2013-2014	202	166	82.17%

**5.2.2 Provide the details of the programme wise pass percentage and completion rate for the last four years (course-wise/ batch-wise as stipulated by the university)? Furnish programme – wise details in comparison with that of the previous performances of the same institution and that of the college of the affiliating university within the city/district?**

Course Name	No. of students		Pass %
	Appeared	Passed/Promoted	
<b>Result 2010-11</b>			
Bachelor of Business Studies	113	110	97.35%
Bachelor of Financial and Investment Analysis	38	35	92.11%
B.Sc. (H) Computer Sciences	23	22	95.65%
<b>Result 2011-12</b>			
Bachelor of Business Studies	161	160	99.38%
Bachelor of Financial and Investment Analysis	47	45	95.74%
B.Sc. (H) Computer Sciences	26	25	96.15%
<b>Result 2012-13</b>			
Bachelor of Business Studies	185	173	93.51%
Bachelor of Financial and Investment Analysis	50	50	100.00%
B.Sc. (H) Computer Sciences	26	25	96.15%
<b>Result 2013-14</b>			
Bachelor of Business Studies	189	178	94.18%
Bachelor of Financial and Investment Analysis	71	64	90.14%
B.Sc. (H) Computer Sciences	30	29	96.67%

**5.2.3 How does the institution facilitate student progression to higher level of education and / or towards employment?**

College facilitates student progression to higher level of education and/or towards employment through ESS and AESS workshops, seminars, workshops and guest lectures by corporate practitioners and alumni.

- ESS equips the students for all the requisite skills to join the corporate work force. Also the behavioural traits learnt through the workshops greatly enhance their potential of success at GDs/interviews for PG courses.
- AESS conducts workshops throughout the year to make our students job-ready professionals for practical corporate scenarios. ESS and AESS are conducted to bridge the gap between the industry needs and academic and gives a competitive edge to our students. These sessions include resume building, cover letter writing, case studies, guess-estimations, group discussions, personal interviews and interactive session with recruiters.
- The entrepreneurship sessions are conducted to equip our students with entrepreneurial knowledge and skills. The resource persons engaged are trained entrepreneur educators certified by National Entrepreneur Network (NEN). Industry Practitioners and Entrepreneurs are invited to interact and share their experiences. They also guide and mentor our students.
- The college has a placement cell for on-campus placements. It works constantly to provide employment opportunities and student-industry interface.
- Summer internship: All students are required to undergo a six to eight week summer internship at the end of their 2<sup>nd</sup> year. This gives the students practical exposure to the corporate world. They are required to submit a project report with a certificate from the industry mentor at the end of the internship. A viva-voce validates their learning. Students have undertaken summer internship at leading companies like BCG, Airtel, Bain Consulting, Coca- Cola, Google, Hindustan Times, Pepsico, Nokia, NTPC etc.
- Case Studies: Matching theory and practical exposure is imperative in the world of management. Our faculty strives to utilize relevant case studies to help our students understand and enhance their managerial capabilities.
- Workshops: Management training is also experiential in nature. By having industry practitioners interact with our students in theme oriented workshops, we provide a platform through which students can learn from the experience of these practitioners. Special classes and workshops have been held in college to keep up with the requirements of the industry. Lectures on topics like cloud computing, cyber security, android apps, SPSS, TALLY etc. have been conducted both for staff and students.
- NCCMP: NSE Certified Capital Market Professional course is run by our college jointly by National Stock Exchange of India with the objective to impart knowledge and awareness about the securities market and thereby upgrade the skills and proficiency of the participants of the course.
- Innovation Projects: Our college encourages staff and students to participate in Innovative Projects. The prospective participants formulate teams which comprise of 10 students and 3 teachers. Each team then presents its research

proposal. The University Innovation Cell offers grants to a few selected teams from the university based on the proposals. Going through this rigorous process of selection helps the students inculcate scientific temper/aptitude.

- Student research projects: The sanction of budget for student projects is need-based and is subject to the Governing body's approval. Besides, we also meet the financial needs of such projects by appealing to the industry. Such support from the industry not only addresses the financial requirements but also encourages the students and provides them insight into the current needs of ever growing industry. Some of the grants we have received in the recent past for Enactus SSCBS are: Dell Innovation Grant, Mahindra Ethics Grant and Walmart Women Entrepreneurship Grant.
- Project Guidance: Faculty members are actively involved in research activities in terms of guiding student research, leading research projects, collaborative research activities etc. Guiding projects is done as a part of curriculum requirement. All faculty members are involved in guiding students in their respective areas of specialization/elective/papers/projects.

#### **5.2.4 Enumerate the special support provided to students who are at the risk of failure and drop out?**

The faculty is sensitive to the needs of all the students and they make special effort to identify students requiring special attention.

- Continuous monitoring of students in terms of keeping track of attendance, class participation and internal assessment is done by the faculty.
- In every teacher's time table there are designated counselling and interactive sessions during which the students can contact them and get personalised attention and academic support.

### **5.3 Student Participation and Activities.**

#### **5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar**

Among the many things that sets SSCBS apart, the college societies and the involvement of the students in extra-curricular activities is ranked very high. With over 20 societies, the college gives ample opportunity to students to explore their potential and apply their leadership, innovative and creative skills. The list of societies/activities is given below.

**CONVERGENCE:** The college has been organising 'Convergence', the annual corporate convention every year in the month of September/ October. The convention is based on a contemporary theme which takes into account various functional areas of management like finance, marketing, human resources and information technology. The discussions in the convention update the knowledge

of the students making them aware of the latest developments. The conference witnesses sessions conducted by many eminent speakers from academics and industry.

**CRESENDO:** The college organises its two days annual cultural cum business festival every year in the month of February/March. It provides a platform to the students to showcase their talent and creativity in events like dance, music, art, photography, quiz, debates, LAN gaming and various business events such as Ad-Mad, business quiz, case study competitions etc. Colleges from Delhi University, the NCR region and other private colleges participate in large numbers.

**BLITZ:** Blitz & Jhankar the dance society of college brings together all kinds of dance forms both Indian and western. Professional choreographers are hired to enhance the skills of the students. Throughout the year students participate in various inter college and inter university festivals like IIT Kanpur, SRCC, JMC, RAMJAS, IIT Delhi and Youth nexus, a dance competition organised by HT City. In February – March they have an event called “Encore” which is a part of the annual college festival Crescendo.

**COMMUNIQUE:** The Promotion Cell of the college is on a constant endeavour to take ‘brand’ SSCBS to great heights by serving as a medium of communication between the college and the public. This is done by generating awareness and a constant buzz about the college and its courses through media and corporate correspondences. The society organises its annual flagship management event PRODIGY every year in the month of September/October. School Students from different cities like Amritsar, Hyderabad, Lucknow, Hissar, Agra, Jaipur etc. participate in this event.

**DARKROOM:** Darkroom endeavours to make students more than just photographers. Along with photography this society encourages graphic designing and creativity. The society members hold exhibitions and photo walks for budding photographers, attend workshops and also organise film and photography competitions. The society has won a number of inter college competitions at SRCC, JMC, KMC, DRC, Miranda house etc.

**DHWANI:** The music society of the college has been actively taking part in Delhi University and other inter-university competitions. The students participate in various categories like Indian Classical and Semi-classical Solos, Indian and Western Instrumental, Indian and Western Group, Western and Fusion Band and Western Solo. Every year Dhvani composes its own Western and Indian group music production. To encourage students interested in music, the society hires professionals to train them. The society also organises Octaves and Mridanga, the annual Western and Indian music competition of the college every year in the month of March.

**DUMUN:** University of Delhi Model United Nations organizes an annual conference which tests the delegate's skills of diplomacy, negotiation, their spontaneity and level-headedness in a crisis situation. In 2010, a group of our

college students presented the first ever pan-Delhi University MUN. With over 800 applications, it was the largest MUN held in Delhi till date. DUMUN 2011 proved itself to be even better, and the UEFA Congress, simulated for the first time in the world. DUMUN 2012 took place in Beijing, China from 26-29th July' 12, in association with the Expo and our students interacted with students from Universities like Harvard, Yale and Boston. After three conferences, the society organised The DUMUN Crisis Summit. The simulated committees included a Triple Joint Crisis; the Research & Analysis Wing (R&AW) of India, the UNDAC, and the UN General Assembly Emergency Special Sessions.

**ECOVISION:** Eco-vision aims to amalgamate fun with learning by conducting games, quizzes, debates and presentations so as to familiarize students with economic concepts, micro and macro-economic theories and principles, and development of Indian and global economies. The main events of the society include ECOMINIA (the economics quiz), WAR OF WORDS (the economics debate), BUDDING ECONOMIST (a test of knowledge of economic concepts and current economic trends) and a panel discussion generally held in the month of February and March.

**ENACTUS:** Enactus SSCBS is the social entrepreneurial cell of the college. With a team of 62 members, Enactus SSCBS is currently involved in 3 social outreach models namely, Sanitation Solutions, Project Akshar & Gramoddhar.

Project Sanitation Solutions deals in spreading awareness on hygiene amongst women living in the slums and villages of our country. Project Akshar involves the welfare of victims of drug abuse & trafficking by instilling entrepreneurial skills in them by teaching them book binding. The team's latest venture, Gramoddhar, involves the adoption of Ghamroj, a village in Haryana, and conducting regular work on income-generating and trust-building activities in the village.

**FinX:** FinX, the finance society works to generate financial awareness among the students through a variety of competitions and workshops. Finomenon, the finance week of the college organized in the month of September consists of competitions like 'The Wolf of Wall Street' a game based on maximizing returns, with the finals as 'Banker's Insight' and Mock stock.

The society's flagship event, FinWiz held in February is a pan university event packed with games about banking, foreign exchange, personal finance, equity and commodity trading, professional quizzing, etc. FinWiz witnesses participation from colleges of Delhi and NCR. Along with this, financial experts participate in a number of competitions held at graduate and post graduate institutions of the nation and win laurels. The society also publishes its e-magazine named PULSE, which gives insights into the latest financial trends in the industry.

**FOURTH WALL:** Fourth Wall, the Dramatics Society is a judicious mix of creative, imaginative, expressive and enthusiastic members. Apart from their annual production being performed at various events and competitions, they are

also involved in watching and discussing theatre performances by eminent theatre groups in the city and regular screening of various movies.

The students prepare their own production and also develop plays based on adaptations. They conduct workshops with eminent theatre personalities like Salim Shah, Arvind Gaur etc. The society has performed plays (in both English and Hindi) at Prithvi Theatre Thespo, Atelier Theatre Festival, IIT Mumbai, BITS Pilani, St. Stephens College, LSR College, Gargi College, SRCC etc.

**GRANDEUR:** This society undertakes live research projects with companies under the guidance of faculty members. A consulting club has been established to develop acumen and spread knowledge about management and consulting profession.

**ILLUMINATI:** The quizzing society of the college participates and organizes quizzes in the fields of economics, business, sports, Indian history, entertainment and politics among others. Quizzing festival is organised in the month of February/march. The members of the society have won accolades at the inter college events of Delhi university and other institutions like IITs, AIIMS.

**KARTAVYA:** The social service society of the college exists with the motive of reaching out to the less fortunate and under privileged sections of the society. Kartavya is not a just charitable venture; instead its rationale is simply to do small things that can bring about huge difference in some lives if not all. It aims to inculcate a sense of social responsibility in the students. Projects like rain water harvesting, pitcher irrigation, vermi-compost and Child Development Khazana as Child Credit and Saving Union Scheme are some of the initiatives undertaken by the society. The society also organises VIVANTE, the philanthropy week which features blood donation camp, Goonj Book Stall and O-Lympics (an event with under-privileged children) every year in the month of March.

**KRITI:** The art society works to open new avenues for students to help them discover and unleash their creativity and power of innovation. The society organizes events like Kaleidoscope – an art extravaganza which includes bag making, chunni designing, doodle making, jewellery making, painting t-shirts, masks, comic strips, graffiti etc. The society has been regularly participating in various art competitions & won awards in Delhi University Colleges, IITs etc.

**KRONOS:** The IT Society endeavours to promote a technology oriented attitude and an urge to delve deeper into the developments in the sector that affect our daily lives. The society has been extremely successful in organizing gaming events like LAN Battle which attracts a crowd of 250-300 students from Delhi university colleges as well as from other universities and institutions. Kronos organizes Sanganak – the annual tech festival of the college in association with major IT giants in the month of February/march. The event witnesses a large footfall of students from various colleges and includes quizzing, gaming events, crosswords, programming and application development.

**LAWERENCE:** The Law forum of the College marks the initiation of a new era of inclination towards attaining knowledge of law of the land and imbibing legal literacy among students. The society organises its flagship event Advocase and Jurisprudence in the month of October and comprises of several rounds to test the aptitude of all contenders.

**MANAGEMENT INTERACTION CELL:** The management and corporate exposure cell of the college was formed in the year 2007 with the aim of bridging the gap between classroom learning and the industry. MIC organizes industrial visits to provide hands-on practical exposure to students. Every year an intra-college management event ‘Promethean’ is organized. It has three competitions: Boardwalk Empire (a resource allocation game), Spinsin (a gambling based management quiz) and Rundown (a managerial treasure hunt). Apart from this, another annual event Confluence is organized in the month of March to highlight current important issues affecting the business environment. One of the recent themes was “A fight against smuggling and counterfeiting” and it was organized with the support of Federation of Indian Chambers of Commerce and Industry (FICCI). Members of Team MIC have also been actively participating in various competitions organized by various universities and colleges.

**MARK IT:** The marketing society of the college organizes events like Exuberance – the Euphoric Inception, Excelsior - the New Ancient and Excelsior 2.0 – the Global Crusade in the month of January/ February. Events like Ad Mad, Best manager, Best Marketer and Marketing Uniting Notions witness participation from several enthusiastic students from different universities. In 2013, they were the National Runners up at St. Xavier’s College, Kolkata.

**PARISHARAM:** The sports society organizes sports activities to gear up the competitive and team spirit among the students throughout the year. It organizes the flagship annual sporting extravaganza ADRENALINE in the month of March which includes sports like Chess, Badminton, Cricket, Tennis, Volley Ball, Foot Ball, and Relays at the college level. As a part of the event, Parishram also organized a special chess event for blind students from various NGOs. It also took initiative to organise athletics for blind students of Seva Kutir.

**RENAISSANCE:** The society has qualified for and triumphed in various Parliamentary debates organized by colleges and universities across the country. The society has also won some of the very prestigious conventional debates. The society organises events like Renaissance Debating Festival (RDF), a three day inter college event in the month of February and Perorate - a one on one parliamentary debate. The society has won many inter college competitions at University of Delhi, Punjab Engineering College, Chandigarh, IIT Kanpur and BITS PILANI etc.

**SYNERGY:** Founded in the year 2009, Synergy, aims at developing skills that help students to realize their corporate aspirations. It organizes summits, events and undertakes initiatives that break away from the conventional formats of

business events and delivers a transformational way of learning. Synergy hopes to integrate theoretical learning with on-the-job requirements of the corporate world through initiatives and events designed and executed with the contribution of industry experts. The events address pertinent issues integral to corporate culture like innovation, delegation, management and leadership, hence bridging the gap between academics and industry. The society has been organising national events like The Summit of Olympus, D'Apprentice, Adelanto and Empezar every year in the month of February/ March.

**VERVE:** The Street Play society of SSCBS is a group of enthusiastic, energetic and informed youngsters who are interested in exploring the intricacies of the social structure through the medium of street theatre. Street plays are chosen to communicate with the masses as they break away from the conventional preaching and instead present ideas in either satirical or humorous ways which are popular and more easily understood. Verve has developed street plays on themes such as whistle-blowing, Civic sense indifference, political consciousness and religious fanaticism.

They have been winners at IIT Kanpur, IIT Bombay, IIM Ahmedabad, SGTB Khals College, Kamla Nehru College, Hansraj College, IP College for Women, Keshav Mahavidyalaya, DCAC, Zakir Hussain College and Lady Irwin College.

MANTHAN is the annual street play festival held in the month of March. From its humble beginnings at the Jantar Mantar in 2007, it has today become the largest street play festival in India. Currently in its 9<sup>th</sup> iteration, it is spanning 30 cities, 30 villages' and featuring 2000 artists across universities all over India.

**YUVA:** The Entrepreneurship Society of the college aims at actively promoting entrepreneurship among the students. It seeks to provide a platform to the students to convert their ideas into reality.

The college launched its Incubation Centre in September 2010, in association with the National Entrepreneur Network (NEN). It is a setup, which carries out the mission of promoting innovation and entrepreneurship to enable and seed business operations with guidance in product design, know-how acquisition, financial mobilizations for a young entrepreneur and providing networking opportunities. The society organised a conference WYSIWYG (What You See is What You Get) in the month of March.

**5.3.2 Furnish the details of major student achievements in co-curricular activities, extracurricular activities and cultural activities at different levels: university / state / zonal / national / international, etc for the previous four years.**

**(2013-2014)**

**Major Achievements**

- Mahima Dissoria, BBS second year student won all – expense paid seven day educational trip to the institutions of European Union in Brussels, Belgium in recognition of having met the highest standards of excellence at the ANTARAGNI LEADERSHIP INITIATIVE 2013, a debating competition organised by IIT Kanpur in association with the delegation of European Union.
- Sidharth Kapoor and Akhil Ahuja of BBS second year, were selected for the student ambassadorship Program of the S.P.JAIN SCHOOL OF GLOBAL MANAGEMENT, DUBAI.
- Aviral Aggarwal, B.Sc second year student developed application for Blackberry, Tizen mobiles, a product of Samsung and Intel and received a cash award of \$ 100.
- Garvit Gupta, B.Sc second year student is a recognized developer of Microsoft. His applications have been featured on major blogs like wpcentral.com and phonearena.com.

#### **National Achievements**

- Nitibha Kaul, BBS third year student participated in the ‘NOKIA Your Wish is MY APP 2013’ contest, a national hunt for a revolutionary app idea. Her app “Pepper Cam” was shortlisted from over 40,000 entries across the country. She won the grand finale with a cash prize of 1 million rupees to fund the app.
- Kushal Jain, a B.Sc student has been chosen as a student partner for MICROSOFT and also a student ambassador for FIREFOX and GOOGLE.
- Aviral Aggarwal, a B.Sc student has developed four applications for Nokia Asha Cellphone. He has also developed application in DVLUP for NOKIA.
- Kunal Sindhvani, a B.Sc student has created 19 applications over Symbian and windows platforms. He has also developed application in DVLUP for NOKIA.

#### **(2012-2013)**

#### **Major Achievements**

- Harsh Tayal (BFIA 3<sup>RD</sup> Year) along with three other participants from Kazahakistan, El Salvador and Denmark presented the business plan on an “Online Swapping and Renting Model” in Cologne, Germany during XVth World Business Dialogue. He was selected amongst 30 students from more than 3000 applicants from across the world.
- Six students from BFIA, Narottam Garg, Lakshay Kalra, Abhishek Jain, Adish Jain, Chirag Abrol and Ambuj Kukreja participated in Vistas’12 the Annual Management festival of IIM Bangalore and bagged third position in Ad Honchos – a marketing competition.

- Abhishek Jain and Adish Jain participated in Vistas'12 the Annual management festival of IIM Bangalore and bagged third position in PRATIBIMB – a business strategy competition
- Harshit Bassi of BBS won the Best Marketer award and Ritika Shah of BFIA won the Best Business Law award in Symulate, a Management festival at Symbiosis, Pune.
- Suhasini Bakliwal and Shrestha Narula participated in the Annual business festival – Xaviers Management Convention at St. Xavier's College, Kolkata and stood first in flagship event JUGAAD.
- Team of students of our college also participated in the Annual management festival, INSIGNIA at St. Xavier's College, Kolkata, and bagged first position in entrepreneurship and Carbon Credit.
- In IIT Kanpur the debating team was judged the best literary team. The Music society bagged the first prize in the acoustic band category. The Dance society was given the second position in group dance.
- Shrutika Nagpal came first in Mridaksh, the personality hunt in IIT Kanpur.

**(2011-2012)**

#### **International Achievements**

- Vasudha Wadhwa, BBS third year was an invitee at Skoll World Forum on Social Entrepreneurship, Oxford University. She represented SIFE SSCBS in the forum.
- Ankit K. Dugar, BFIA third year, was chosen from the college to be a part of team of ten students from University of Delhi colleges to visit Australia India Institute and the University of Melbourne as a part of a Young Leaders Programme. This was a dedicated program developed by the Australia India Institute that engaged talented students with the opportunities and challenges of Global Citizenship.
- Venika Wadhwa, BFIA third year student, participated in conference organised by Harvard University in partnership with Yonsei University in South Korea, under Harvard Project for Asia and International Relations (HPAIR).
- Pragya Gupta, BFIA third year student participated in conference organised by Harvard University. This was under Harvard Project for Asia and International Relations (HPAIR).

#### **National Achievements**

- A team of SSCBS participated in the Global Business Challenge by CIMA (Chartered Institute of Management Accountants) London in association with Barclays. The team called 'TEAM NOVARAM' was the second runner up and also qualified for the Nationals.

- Abhishek Rathi, BBS third year student, was awarded Best Intern under CSR/Non Profit Category under India's Promising Young Professional Awards. His internship report got published online.
- A team of SSCBS participated in Annual business festival- Xaviers Management convention at St. Xaviers, Kolkata and secured fourth position and first position in the North Zone.
- Manisha Goel, Shivya Gupta, Yakeen Agarwala of BBS second year won first prize in business plan competitions in Deen Dayal Upadhaya College and Shri Guru Gobind Singh College of Commerce.
- Tushar Garg and Gaurav Garg were the finalists in Delhi round of TATA CRUCIBLE- the biggest campus quiz in INDIA.
- Aavrit Singhal and Ashish Pal won first prize in computer programming in TechMelange – IT festival at Shaheed Rajguru College of Applied Sciences for Women.

**(2010-2011)**

**International Achievements**

- Pragya Gupta, BFIA second year student participated in business plan competition held at the National Cheng Kung University, Taiwan, representing Team India. She was awarded the second prize. She was also selected as an International Climate Champion, held by the British Council, London and attended a camp with 37 people from across the world in Goa.
- Pragya Gupta with Venika Wadhwa, BFIA second year participated in Marshall International Case Competition (MICC) organised by Marshall School of Business, University of South California.
- Sudhanshu Tyagi, Ashish Aggarwal, Manu Sharma, students of BFIA second year and Prachi Grover of BBS first year participated in Rubicon Contest held in Germany. It was a business competition for undergraduate students from all around the world.

**National Achievements**

- Verve, the street play society of SSCBS won the first prize in 'Halla Bol', the street play competition of the Management festival at IIM, Ahmedabad which had teams from IIT Bombay, MDI Gurgaon, NSIT and PEC.

**5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?**

- Constant interaction and discussion with the corporate and alumni help to keep our students up to date with the latest trends in the industry.
- Case study workshops, seminars and guest lectures are also organised for the students.

- Pre-placement talks are given by the corporates to apprise the students about what the industry is looking for.
- The college collects feedback from the industry and alumni through feedback forms which are provided to them when they come to the campus for recruitment.
- A feedback report and completion certificate from the company is required to be submitted by the students who complete their summer internship.
- Suggestions from the alumni are taken regarding industry requirements from time to time and efforts are made to incorporate them when the syllabus is revised. Regular feedback is taken from the alumni and recruiters for improving the curriculum and teaching pedagogy. After receiving feedback and suggestions from them for the need of a finance focussed under graduate program, the college started Bachelor of Finance and Investment Analysis (BFIA) course in 1999. BFIA curriculum was developed by the college and approved by the University of Delhi. Since its inception the course has undergone 3 curriculum revisions based on feedback from the alumni, recruiters and some senior academicians.

**5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.**

Pathmanjari, the college magazine (published annually) provides a platform for the students to showcase their literary skills and creativity. The students are in the editorial board of the magazine along with the teacher coordinator. The students of each society also come up with creative posters, brochure and magazine for their event and also design websites for the same.

Student publications: (guided by and in conjunction with faculty members)

1. Thomas, C.B., Singh, R. and Porwal, H.K. (2012). Performance Analysis of Balanced Indian Mutual Funds. *SS International Journal of Business and Management*, 2(6).
2. Singhal, S., Singh, R. and Porwal, H.K. (2012). The Month of the Year Effect in Indian Stock Market: an Analysis of impact of market, industry and size of firm. *International Journal of Management, IT and Engineering, International Journal of Multidisciplinary Research Academy*, 2(12), pp.193-208.
3. Singh, P.K., Singh, R. and Porwal, H.K. (2012). *FDI in India-Response and Challenge*. Presented by Singh, P.K. in seminar organized by Shaheed Bhagat Singh College, University of Delhi on November 5-6, 2012.
4. Sharma, T., Singh, R. and Porwal, H.K. (2014). Impact of Microfinance on the Living Standards, Poverty Alleviation and Empowerment of the

- Poor Women in Delhi. *International Journal of Research in Social Sciences(IJRSS)*, ISSN: 2249-2496, 4(4), pp. 95-117.
5. Chawla, A., Singh, R. and Porwal, H.K. (2013-2014). Calendar Effects in Indian Stock markets. *Business Analyst*. Indexed in Ulrich's, ISSN 0973-211X, 34(2), pp.139-151.
  6. Gulati, S., Porwal, H.K. and Singh, R. (2012-2013). Testing the Validity of the Capital Asset Pricing Model for the Mid-Cap Stocks on the Bombay stock Exchange. *Business Analyst*. Indexed in Ulrich's, ISSN 0973-211X, 33(2), pp.25-35.
  7. Anand, N., and Singh, R. (2011). Inverted Yield Curve and Performance of Stocks of Different Market Capitalizations. *Asia Pacific Business Review*. ISSN 0973-2470, VII(3), pp.7-17.
  8. Jyoti, S. and Singh, R. (2009). Market Reaction to Bonus Issues in the Indian Stock Market. *Asia Pacific Business Review*. ISSN 0973-2470, V(3), pp.56-62.
  9. Deepak, G., Anand, A. and Singh, R. (2008). Empirical Testing of Strong Form of Market Efficiency. *Asia Pacific Business Review*. ISSN 0973-2470, IV(3).
  10. Sehrawat, N., Dang, D.K. (2014). A study on the impact of Harmonization of Indian GAAP with International Financial Reporting Standards: Empirical Evidence from India. *4<sup>th</sup> India Finance Conference organized by IIM B, IIM A and IIM C*.
  11. Mittal, P. and Haldia P. (2015). Green Marketing Relevance on organizations of tomorrow. *7th International Conference on Managing organizations of tomorrow by capitalizing Generation Next, Vol 1 ISBN 978-93-85000-01-0*.
  12. Mittal, P. Solution to Environmental Degradation- Green Marketing. *Making India Climate Resilient: A National Conference on Climate Change Adoption and Resilience by International Development Centre & Ministry of Science and Technology & Ministry of Earth Sciences*.
  13. Mittal, P. and Haldia P. (2015). Mezzanine Finance for the Indian Microfinance Industry. *International Journal of Management Research and Business Strategy (IJMRBS)*, Vol. 4.
  14. Bhambri, L., Rohella, H., Sharma, S., Gupta, A. (2015). Management Systems for an Educational Institute. *CSI sponsored National Conference on Innovations in IT, Management and Education – Digital India Initiative*, Maharaja Surajmal Institute, IP University, Delhi.
  15. Joshi, J., Choudhary, A., Singh, D. and Gupta, A. (2015). E-Mentoring: A platform for alumni connect. *CSI sponsored National Conference on Innovations in IT, Management and Education – Digital India Initiative*, Maharaja Surajmal Institute, IP University, Delhi.

**5.3.5 Does the college have student council or any similar body? Give details on its selection, constitution, activities and funding.**

The college has a student council whose members comprises of class representatives and deputy class representative who are elected by the students of the respective classes. The body also comprises of head of the department, computer lab in charges, librarian, placement officer, caretaker, system network administrator and the principal who is the chairperson. The council meets regularly to take feedback from the students regarding issues related to academics, infrastructure and any other grievances. Necessary action is taken regarding any grievance raised by the students.

**5.3.6 Give details of various academic and administrative bodies that have student representatives on them.**

Academic bodies	Administrative bodies
<ul style="list-style-type: none"><li>• Finance society</li><li>• Marketing society</li><li>• Law society</li><li>• Economics society</li><li>• IT society</li><li>• Knowledge and Research Cell</li><li>• Innovation Project Cell</li><li>• Magazine committee</li></ul>	<ul style="list-style-type: none"><li>• Student council</li><li>• Library committee</li><li>• Canteen committee</li><li>• Equal opportunity cell</li><li>• Committee against sexual harassment</li></ul>

**5.3.7 How does the institution network and collaborate with the alumni and former faculty of the institution.**

An alumni meet is organised every year. Since the inception of the college connection with alumni has been very strong.

- Regular feedback is taken from Alumni and recruiters for improving the curriculum and teaching pedagogy. After receiving feedback and suggestions from them for the need of a finance focussed under graduate program, the college started Bachelor of Finance and Investment Analysis (BFIA) course in 1999. BFIA curriculum was developed by the college and approved by the University of Delhi. Since its inception the course has undergone 3 curriculum revisions based on feedback from Alumni, Recruiters and some senior academicians.
- The Alumni also conduct workshops, guest lectures and career counselling session to apprise the students about the latest trends in the industry. This helps the college in bridging the gap between what the college teaches and what the industry is looking for.
- The alumni also come back as recruiters and offer job placements and summer internships to the students.

- Many alumni help the students raise sponsorships for various society activities.
- To facilitate alumni interaction a web based system has been developed by the students and faculty of the college wherein an alumnus (mentor) can connect to the current student (mentee) through a website for academic and professional guidance. The website is under testing phase.

## **CRITERION VI: Governance, Leadership and Management**

### **6.1 Institutional Vision and Leadership**

**6.1.1. State the Vision and the mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?**

**The Vision** of the college is to create a centre of excellence for learning, dedicated to meet the aspirations of the society.

**The Mission** of the college is to explore new frontiers of knowledge so as to nurture value driven, socially responsive, committed and ethical citizens of the globe.

**The Goal** of the college is:

- To provide learning and teaching environment to prepare responsive and ethical managers, technocrats, entrepreneurs and researchers.
- To develop decision making skills and administrative competence of our students and teachers through innovative and cutting edge education and research.
- To establish linkages with industry and academia fostering leadership in quality education, research and consultancy.
- The college translates its vision statement by providing a conducive environment which enables the students and the faculty to enhance their ability of learning and growing. For this the college on a regular basis conducts activities such as orientation programme for the students, systematic planning for each semester, regular monitoring and evaluation of student performance and organising workshops and trainings for students and faculty in advanced and contemporary areas.

**6.1.2 What is the role of top management, Principal and Faculty in the design and implementation of its quality policy and plans?**

- For designing and implementing its quality policy and plans effectively, the college has an efficient co-ordination internal management system under the leadership of principal.
- The Principal constitutes various committees for overall management of the various operations of the college, such as, admission, academic coordination, conduct of examinations, promotion of research, development of infrastructure-facilities, appointment of staff, maintenance of service records, encouraging cultural activities, implementation, healthy practices in the college.

- The principal forms committees under the convener ship of a teaching or a non-teaching staff with members from both and students for effective monitoring and decision making.
- The Top Management encourages the process of acquiring knowledge by the staff through research by allowing and supporting the faculty to attend seminars, conferences and workshops.
- An environment of professional development is created that inspires the faculty to do research by provision of infrastructural and library facilities.
- Whenever, the support is not available from Govt. agencies, the management i.e. the Governing Body of the college provides financial support by way of provision of Travelling Allowance & reimbursement of registration fee.
- The Governing Body of the college encourages faculty to organize and participate in various professional activities and supports the same whenever necessary.

### **6.1.3 What is the involvement of the leadership in ensuring:**

- **The policy statements and action plans for fulfillment of the stated mission**
- **Formulation of the action plans for all operations and incorporation of the same into the institutional strategic plan**
- **Interaction with stakeholders**
- **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**
- **Reinforcing the culture of excellence**
- **Champion organizational change**

The college has had a culture of encouraging initiative and has created an environment where faculty is encouraged to actively participate in decisions of the management of the college. This allows the faculty to play an active and leadership role in formulation of every action plan. For instance:

- The Principal encourages extracurricular activities. For every activity a committee comprising of students and faculty is formed under the mentorship and leadership of the Principal.
- College on recommendation of the Governing Body encourages the faculty and the students to conduct research and provides all necessary support needed for the same.
- The College invites eminent personalities from the corporates and academia to share their ideas. This bridges the gap between academics and industry exposing the students and the faculty to the latest developments and trends in the corporate world and the field of research.
- Any expansion plan of the department also originates from the concerned department through the faculty meetings and is discussed in Staff Council.

- Proposals for new courses designed by the departments are approved by the staff council and forwarded to the Governing Body and University for necessary approvals.

**6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?**

- The College functioning is governed by the University of Delhi Statutes and Ordinances. For effective implementation of these policies the College has been constituting committees comprising of faculty members and administrative staff and a Governing Body members wherever applicable. The Principal is ex-officio chairperson of the committees. The same committees review and suggest improvements which are forwarded to the concerned authority after approval by the Principal.
- To build and maintain the atmosphere of continuous learning, a detailed plan of activities to be organized, innovative ways of teaching and learning, platforms for providing industrial exposure to the students are discussed periodically through faculty meetings.

**6.1.5 Give details of the academic leadership provided to the faculty by the top management?**

The chairperson of the Staff Council is the Principal. The staff council of College, through its various sub-committees, is committed towards achievement of academic and research excellence. The staff council monitors and reviews the academic growth of each department/faculty and creates an environment of collaboration and learning among the faculty and departments.

The members of the Governing Body are invited on events organized by the college such as seminars, orientation programs and annual day celebration. These occasions enable interaction of faculty with the members of Governing Body. The Governing Body in the past through their appreciation of the faculty and acknowledgement of their achievements has been inspiring and motivating. They have provided support both through their valuable inputs as well as financial assistance in encouraging academic growth. Thus making the environment of the institution, healthier and more enjoyable.

**6.1.6 How does the college groom leadership at various levels?**

- There is total decentralization of the administrative system for promoting cooperation, sharing of knowledge and empowerment of the faculty. Several committees are constituted by the Principal for overall management of admissions, making of time table, conduct of examination, encouraging cultural activities and maintenance of healthy campus life.

- The college emphasizes on learning and building leadership quality in the students both within the environment of class room as well as by giving opportunities to students to explore their potential in various fields. The college thus boasts of myriad societies in the area of finance, economics, marketing, IT, social initiative, dramatics, dance, music etc.
- The students have the freedom to select the societies they want to participate or become members of. Each team of students has members from all three years. The third year students act as an advisory, the second year works as a core committee and the first year as working committee. This way they develop the qualities of working in a team as well as nurturing the new team members.
- The students are given freedom to organize and manage events under the guidance of the faculty coordinators. The faculty coordinators act as a link between the students and the college administration.

**6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?**

The college has a healthy culture of democratic decision making. Every department has its own teacher-in-charge to coordinate its activities for a period of two years. The appointment is made by rotation in order of seniority. The functioning of the college (organization of the admissions, examination, extra-curricular activities and sports etc.) is through different committees constituted by the Staff Council. Each committee selects its own convener/coordinator who is a faculty member. The convener is given full freedom to plan the activities and events within the budget allocated to them by the college.

**6.1.8 Does the college promote a culture of participative management? If 'Yes', indicate the levels of participative management.**

The college promotes a culture of participatory management at all levels.

- In the highest decision making body i.e. the Governing Body there are ten nominees of the Delhi Govt. along with two representatives of the University, two representatives of the teachers, one representative of the non-teaching staff as special invitee and Principal as a member secretary.
- The Provident Fund committee constituted by the Governing Body also has representation of two elected subscriber's nominee, one from teaching and one from non-teaching staff.
- There is representation of faculty in the Finance Committee and the Committee for hiring of external agencies for Housekeeping & Security work.
- All important decisions pertaining to student admission, organization of student activities, time-table is taken by the Staff Council.

- Appointment of canteen contractor is done through a canteen committee which consists of teachers, non-teaching staff and student representative. The management normally accepts the recommendation of canteen committee.
- All purchases in the college are done through the Purchase Committee, consisting of faculties and one member from the administration. For all the purchases, General Financial Rules (GFR) is followed. If the value of the purchase is above rupees one lakh, approval from the treasurer of the Governing Body is needed. Generally recommendations of the Purchase committee are accepted by the management.
- All the academic matters are discussed and decided by the Staff Council of the college (members are all faculty members and librarian with Principal as the Chairperson). The recommendations of the Council are forwarded to the Governing Body for their approval whenever needed.
- Since the college has a new campus under construction at Rohini, a Building Committee has been formed to suggest and oversee the requirements of the campus. The Bursar, teacher - in charge of all departments and Staff Council Secretary are members of this Committee along with the Principal as an ex-officio chairperson.

## **6.2 Strategy Development and Deployment**

### **6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?**

The IQAC is recently formed however it will start function post accreditation.

### **6.2.2 Does the Institute have a perspective plan for development? If so , give the aspects considered for inclusion in plan .**

The college is currently functioning out of a school building and has some infrastructural constraints. To overcome the infrastructural shortcoming a well-designed campus is under construction at Rohini, on the land allotted by the Delhi Government. The main highlights of the new building are:

- 60 state of art class rooms
- 6 computer laboratories
- common rooms for students
- 40 faculty rooms.
- 400 seating capacity auditorium
- Amphitheatre with seating capacity of 500
- Conference and seminar rooms.
- Library with designated area for reading cubicles, reading halls and stack halls for 50,000 books.
- Designated area for sports- multipurpose hall for indoor games and a yoga center.

- Hostel facilities for girls and boys for 300 students and staff quarters.

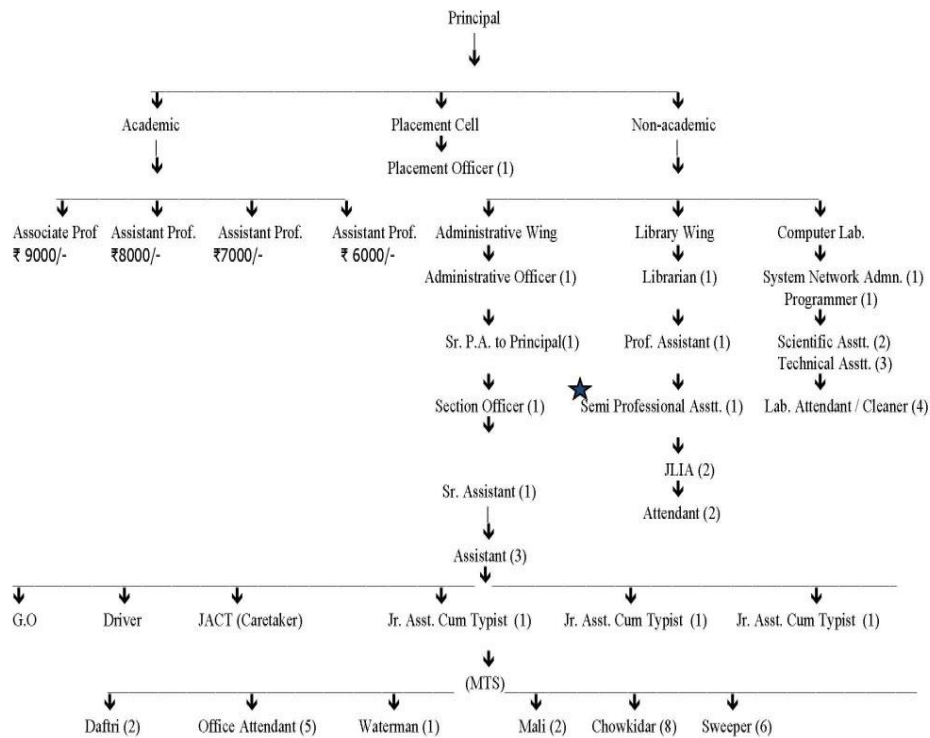
### 6.2.3 Describe the internal organizational structure and decision making processes.

Principal is the Academic and Administrative Head of the college. She is responsible for overall administration and organization of teaching and extra-curricular activities in the college. The organizational structure of the teaching and administrative staff is given:

#### SHAHEED SUKHDEV COLLEGE OF BUSINESS STUDIES

#### ORGANIZATION CHART (31/03/2014)

Reference: Audit A.G.C.R. Memo No.- 2, Sr. No.- 2(1).



★ Semi Professional Assistant is a promotional post.

- Governing body of the college at least thrice a year to discuss issues relating to the finance, infrastructure, faculty requirement and matters relating to overall development of college.

- Decisions regarding admissions, extracurricular activities, preparation of college time table, college events, purchase of library books and laboratory equipment are taken by staff council subject to the provision of Act, Statutes and Ordinances of University of Delhi.
- Departmental meetings are held regularly to discuss issues related to the functioning of the particular department.
- There are various other committees for the smooth and efficient functioning of the academic, administrative, curricular and extracurricular activities of the college.

**6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following :**

- **Teaching and Learning**
- **Research and Development**
- **Community engagement**
- **Human resource management**
- **Industry interaction**
- The college is equipped with modern teaching aids like white boards, computers, computer linked projectors, Wi-Fi enabled campus. The institution facilitates research by students and faculty members by organizing seminars, workshops and individual interaction with academic and professional experts.
- The college provides financial assistance to faculty members to attend seminars and workshops.
- As a result of encouragement given to the faculty, 5 innovation projects have been undertaken by faculty and students, which have received funding from the University of Delhi.
- An annual national corporate convention “Convergence” is organized every year which provides an interface between faculty, students and experts in different disciplines from industry and academics
- NSS, Kartavaya society of the college and Enactus provide a platform to the students for making them aware of their social responsibilities and encouraging them to undertake projects to fulfil their social responsibilities.
- Industrial visits and industry interaction is facilitated through the Career Development Cell.

**6.2.5 How does the head of the Institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the Institution?**

- The Governing Body meetings are held from time to time in which the Head of the institution, the Principal appraises the Governing Body about the following:
  - Faculty requirement in each department of the college
  - Purchases made in the college
  - Result of the students
  - Activities organised by various Student Activity Societies
  - Recommendations of Provident Fund committee/library committee/purchase committee
- The college obtains feedback on the curriculum and teaching from students through interaction and questionnaire/ forms. The feedback is analyzed by faculty members and relevant suggestions are communicated to the top management.
- Alumni and parents also visit college from time to time and give suggestions and feedback.

**6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional process?**

- The Governing body regularly meets the faculty representatives. The college Governing Body includes two representative of the faculty and one representative of non-teaching staff. They suggest steps for modification and improvement in result oriented decision making process.
- The Governing Body gives full responsibility and freedom to the college administration and staff members for taking initiatives for improving the functioning of the institution.

**6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.**

During the last year, the governing body of the college has passed a resolution regarding the formulation of purchase committee, budget approval of Career Development Cell (CDC) and providing grants to faculty members for paper presentation in seminars and conferences and attending workshops. All recommendations of the governing body are being implemented in letter and spirit.

**6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If yes, what are the efforts made by the institution in obtaining autonomy?**

We are a constituent college of University of Delhi and the University of Delhi does not accord autonomous status to its constituent colleges.

**6.2.9 How does the Institution ensure that grievances/complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder relationship?**

- The Principal, Chairman of the Governing Body and its members are accessible. They ensure that grievances/complaints are promptly attended to and resolved by regularly meeting the students, faculty members and non-teaching staff of the college.
- The college has a Grievance Redressal Committee which looks into individual grievances in a sensitive manner and whenever required, counselling is done by the teachers.
- A suggestion box is placed at a prime location inside the campus in which the students have the freedom to drop any problem or grievance in writing. The box is opened periodically and necessary actions are taken to address grievances. Also, the college has designed online feedback form for the students. Students have an open access to give their feedback by using a unique email id provided by the college.
- Sexual harassment Cell, SC-ST grievance cell and anti-ragging cell cater to specific problems in campus.

**6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these.**

Details of Court Cases During the Last Four Years Against College

S. NO.	NAME	CASE NO.	V/S	REMARKS
1.	Mr. S. K. Jain, Ex-A.O.	CWP No.6901/2010 July 26, 2013, High Court	S. K. Jain v/s GNCT of Delhi	Dismissed
2.	Ms. Sonia Sareen, Ex-Placement Officer (Adhoc)	Writ Petition (Civil) No.746/2014 High Court	Sonia Sareen v/s SSCBS	Prayers cannot be granted.
3.	Ms. Isha Khanna, Student	LPA 806/2013	Isha Khanna v/s University of Delhi & others	Granted admission in BMS 2013-14.

4.	Mr. Atul Bhardwaj, Technical Assistant	W.O.(c) No. 755/ 2012	Atul Bhardwaj v/s SSCBS and another	Case dismissed with costs of Rs.5000/- to the respondent no.1
5.	Mr. Tribhuwan, Semi Professional Assistant	Civil Misc. Petition No. 16793/2014 and writ petition (civil) 5590/2012	Tribhuwan Kumar v/s SSCBS & another	Next date of Hiring 13/05/2015
6.	Delhi University SC/ST/OBC Teachers Forum & another	Civil Misc. Petition no.1605/2014 & writ petition (c ) no.8031/2014	D.U. SC/ST/OBC/ Teachers Forum & Another v/s University of Delhi & others	Next date of Hiring 09/04/2015
7	Before the National Green Tribunal, Principal Bench, New Delhi	M.A. No. 16 of 2014 & M.A. No. 368 of 2014 in Original Application No. 08 of 2014	Mahendra Pandey vs Union of India & Ors.	Application Dismissed by the National Green Tribunal

No case has been filed by the institution.

**6.2.11 Does the Institution have a mechanism for analysing student feedback on institutional performance? If ‘yes’, what was the outcome and response of the institution to such an effort?**

The college has several methods for receiving and analysing student’s feedback on institutional performance.

- Students fill a feedback form during the semester which can be submitted on line or directly to the office. There is a specific e-mail ID for receiving suggestions, grievances, feedback and recommendations of the students.

- In addition, the college has a suggestion box through which students, teaching and non-teaching staff can submit their ideas and suggestions for improving the working and learning environment of the college.
- The college has formed a Student Council consisting of Principal, teachers in charge of all departments, teachers in charge of laboratories, administrative officer, librarian, placement officer and system network analyst and a student representative of each class and section. This council meets once a month to discuss matters related to academics and infrastructural support or any other grievance.
- The principal meets the teachers through departmental and staff council meetings. The problems faced and suggestions made are discussed through these meetings and the decisions taken are implemented.

### **6.3 Faculty Empowerment Strategies**

#### **6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?**

As an institution we zealously adhere to the idea of consistently and continuously enhancing professional expertise of our teaching and non-teaching staff. The following steps are taken by the college to enhance the professional development of its teaching and non-teaching staff.

- Permanent faculty members are encouraged to attend orientation and refresher courses as and when due.
- Permanent as well as ad-hoc teachers are encouraged to attend training programmes / workshops in specialized areas.
- The college provides financial support through University Grants Commission/University of Delhi/DST/DRDO for attending International seminars/ conferences/ workshops etc.
- The college provides reimbursement of travel allowance and registration charges for attending UGC recognized conferences.
- The college reimburses outstation travel expenses and registration charges for attending seminars/ conferences/ workshops.
- For Paper presentation in International conferences, expenses towards 50% of the round trip airfare by the shortest route are eligible for reimbursement. This may be availed once in three years.
- Reimbursement is done in case of Paper presentation in national conferences. This may be availed once a year.
- The college deputed the non-teaching staff for various computer training/finance/administration skill enhancement programmes organized by Delhi University/ Delhi Government.

- Moreover, college organizes on campus Faculty Development Programmes on a regular basis, latest being FDP on ‘Financial Econometrics’ organized from 06 Oct to 11 Oct, 2014.

**6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?**

- The institution sends the various employees from the office and computer labs for training to Delhi University and also to trainings organised by the Govt. Of NCT of Delhi.
- The college organizes on campus Faculty Development Programmes from time to time latest being FDP on ‘Financial Econometrics’ organized from 06 Oct to 11 Oct, 2014. On the job training for various subject streams and software like Linux, Free Open Source Software (FOSS) is also provided as and when required.

**6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.**

The performance appraisal proforma has been designed for getting information on the following activities:

- Teaching and related academic activities.
- Upgrading of knowledge/ or skills including research activities.
- Extension work/ Contribution to corporate world.
- Contribution to administrative work and co-curricular activities.
- Participation in examination and evaluation process.
- Result evaluation.

**6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?**

The self-assessment from filled-in by the staff members are evaluated and if there is a point of difference on any parameter the same are communicated to the staff members in writing within a month

**6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?**

- College has several welfare schemes for its teaching and non-teaching staff members like Group Insurance Scheme (GIS), Children Education Allowance, Medical Reimbursement and Leave Travel Concession, Auto loans, loan for purchasing computer/ laptop etc.
- Besides the wards of staff members get preference in admission on supernumerary seats in B.Sc Computer Science. They are also given full fee concession.
- These schemes/benefits offered are as per the rules of the Government or University of Delhi.

#### **6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?**

- The recruitment of faculty is governed as per rules and regulations of the University of Delhi. Whenever a vacancy arises in the college, it is advertised in National dailies, and on college and University of Delhi websites. The interviews are conducted by a selection committee as per the Ordinances of the University of Delhi.
- Ad-hoc appointments are made through interviews after displaying the vacancies on the college and Delhi University website.
- The appointments made are purely on merit.

### **6.4 Financial Management and Resource Mobilization**

#### **6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?**

- To monitor the effective and efficient use of the available financial resources, the college seeks the requirement of purchase from the various departments like library, computer laboratories and departments, in the very beginning of the semester.
- The requisitions are discussed in the Purchase Committee and the matter is referred to the Governing Body wherever necessary. The college purchase committee facilitates the purchases and strictly follows the GFR.
- Income/Expenditure are closely monitored by the bursar and section officer (accounts) headed by the Principal.
- Proper procedure is adopted for all purchases quotations are called for prices are compared. The institution has a purchase committee for this purpose.
- Auditing is done by internal as well as external bodies like ELFA, AGCR by following the due processes. The audit objections, and compliances are handled by the accounts department.

**6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.**

- Internal audit is done annually by statutory auditor, chartered account, which is placed before and approved by college governing body subsequently it is approved by the University of Delhi and Delhi Govt.
- The external audit is conducted by Directorate of Audit, Examiner Local Fund Accounts (ELFA), Govt. of Delhi and Office of the Principal Accountant General (Audit), Delhi.
- The last external audit was done for the financial year 2012-2013. Internal audit was done for the financial year 2012-2013. No major objections were raised by the auditors.
- Academic audit is done internally.

**6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.**

The college is fully funded by Delhi govt. It also gets grant in the form of LCD projector for class rooms, computers for laboratories, laptop for students and teachers from University of Delhi.

**6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).**

The College has received grant from UGC under merged scheme and development assistance during XI plan.

**6.5 Internal Quality Assurance System (IQAS)**

**6.5.1 Internal Quality Assurance Cell (IQAC)**

- a. Has the institution established an Internal Quality Assurance Cell (IQAC)?. If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**
- b. How many decisions of the IQAC have been approved by the management/ authorities for implementation and how many of them were actually implemented?**
- c. Does the IQAC have external members on its committee?**
- d. How do students and alumni contribute to the effective functioning of the IQAC?**

**e. How does the IQAC communicate and engage staff from different constituents of the institution?**

- The institution has recently formed Internal Quality Assurance Cell (IQAC) which will start functioning post accreditation.
- However the college has been endorsing the spirit of IQAC through its various sub-committees viz. student council, internal assessment monitoring committee, discipline committee, attendance committee, feedback mechanism through which the college consistently monitors the quality at all levels.
- The external members, alumni and students of the college consistently contribute to effective functioning of such parallel committees and thereby monitoring the quality at all levels.

**6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalization.**

- At SSCBS we have various practices in order to ensure high quality of academic and administrative activities.
- Academic and administrative records are maintained systematically and are easily accessible.
- The college has Performance appraisal system for the faculty, Result analysis of students at the end of each semester, remedial classes for weak students, end-semester student feedback.
- Through all these measures we try to ensure high quality of academic experience for our students.
- The College has policies for upkeep of infrastructure facilities and optimum use of the same to maintain the quality of academic and other programmes on the campus.
- The College conducts skill oriented courses, training programmes and FDP to achieve core competencies and enhance knowledge and skills.
- The College has several facilitating mechanism like Career development Cell, Remedial coaching classes, Grievance Redrassal Cell and welfare measures to support students.

**6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.**

We are in process of formulating norms for quality assurance as required for IQAC; however the college encourages their staffs to attend such training programmes which help them in effective implementation of quality assurance procedures.

**6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?**

- There is a provision of Academic audit in the Statutes of University of Delhi wherein every college is supposed to be audited every alternate year.
- The recommendation of the Academic audit is placed before the Governing Body and their suggestions are implemented. This has immensely helped the college in growing its infrastructural facilities along with ensuring high quality of teaching.
- Besides this, the college ensures academic excellence through its mechanism like result analysis, feedback from their various stake holders etc.

**6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?**

The spirit of IQAC had been followed since long and the college is in process of formalizing the same.

**6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

- The learning teaching process is regularly reviewed through Academic Development Committee, Internal assessment committee, Attendance committee, Courses of committee, staff council meetings, departmental meetings and meetings of the student council. Based on the recommendations of these committees' changes improvements, improvisations and amendments are earnestly adopted.
- Some committees have members as per the University statutes and regulations. The composition of other committees is decided by Governing body/ Principal/Staff Council.

**6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?**

- The quality assurance policies, mechanisms and outcomes are communicated to various internal and external stakeholders through college prospectus, notice board, information bulletin, print media and college and university websites.
- Attendance is available online.
- Parents/students are regularly informed about the performance and attendance of their wards.

- Meetings of the student council are held regularly for the exchange of ideas between Principal, Teachers and students
- The College information bulletin provides extensive and detailed information about the various activities of the college.
- The college website is updated regularly.
- New students are made aware of college policies and regulation through a well conducted orientation programme.

## **CRITERIA VII: Innovations and Best Practices**

### **7.1 Environment Consciousness**

The Administration, staff and students of SSCBS are highly sensitive towards environmental issues. The college endures environment friendly practices, the social service club, Kartavya, of the college and NSS chapter of the college are proactively maintaining and preserving a clean ambience in college.

#### **7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?**

No formal green audit is conducted in the campus. However various measures are adopted to keep the campus eco-friendly. Consciousness about environment is created among the staff and the students. The green cover of the college is nurtured and properly maintained. The garden of the college campus is maintained by experienced and efficient gardeners.

#### **7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?**

- \* **Energy conservation**
- \* **Use of renewable energy**
- \* **Water harvesting**
- \* **Check dam construction**
- \* **Efforts for Carbon neutrality**
- \* **Plantation**
- \* **Hazardous waste management**
- \* **e-waste management**

The College is dedicated towards maintenance of eco-friendly campus. Various initiatives taken by the NSS chapter and social service society, Kartavya, to make the campus eco-friendly by are:

- To keep college and its premises clean, several cleanliness drives are organised in the college from time to time. Different coloured dustbins with poly bags are put up in the college premises so as to ensure proper garbage disposal. Refillable bottles of hand wash are also placed in the washrooms in order to reduce use of plastic made objects.
- To make college campus free from smoking, banners on “No Tobacco” and “No smoking” are displayed at various places in the college campus. Also, the selling of tobacco and cigarettes is prohibited within 100 meters of college campus. And besides these, the college is strictly vigilant on prohibiting use of these products in the college.
- To encourage recycling of the used paper, collection drives are organised and collected material like used papers, old newspapers, magazines etc. are donated to various NGOs. NGOs further use them for making notepads, envelopes etc.

- To encourage reuse policy, use of two-sided sheets is promoted in college. Also, students and staff are encouraged to take prints on both sides of the sheet so as to avoid wastage of paper.
- Paper consumption has been drastically reduced by prohibiting the print-outs of computer practicals. Instead of hard copy, a soft copy on the computer is maintained for assessment purpose, thereby ensuring that we save lots of paper.
- Implementation of online - attendance and internal assessment has reduced drastically the amount of paper used.
- To conserve the energy, awareness about conservation of electricity is spread among college staff and students. We make sure that the lights and other electrical appliances are switched off while leaving the staff rooms and classrooms. In the computer labs, the computers remains switched off when not in use. In this way, we conserve an ample amount of energy.

Our college is coming up with new building at sector-16, Rohini. Huge amount of emphasis has been given on conservation of energy. Some of the energy efficiency features are listed below:

- a) Ultra star rating electrical fittings, fans, A/C to save electricity.
- b) Provision of solar water heater.
- c) Use of CFL lights in circulation area and toilets.
- d) P.V. cell system for all streets and compound lighting.
- e) Rain Water Harvesting

The new building is following the norms of green building. Some of the important features are listed below:

- a) Insulated roof to reduce heat gain.
- b) Adequate window areas for natural light and ventilation.
- c) Provision of sewage treatment plant and recycling of waste water.
- d) Use of local materials, fly ash bricks and ready mix concrete.
- e) Use of gypsum plaster to avoid curing and save water.
- f) Maintenance free external façade.

## **7.2 Innovations**

### **7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.**

Purpose of innovations is to enhance learning by making it more effective and interesting. Some of the Innovations used by the college during last few years which exercised very positive impact on the functioning of the college are listed below:

- The college extended the facility of filling up exam forms online which saves the time of both the staff and the applicants. This enhances paper saving and makes process more transparent and swift.

- As part of attendance management, the complete system of filling in attendance and internal assessment has been automated. Teachers can fill-in the attendance online every month and students can view the same using their login id and password. This makes the process of showing attendance record convenient for both students and teachers as it creates faster access and transparency in the process.
- Online mechanism of feedback from the students has been adopted by the college so as to have an effective incorporation of student's feedback into the learning practices.
- To encourage academics - industry interaction, students and teachers are encouraged to participate in university innovation projects. It is a practice by the university in which faculty and students are provided research opportunities with interdisciplinary exposure. Each team in innovation project include three teachers from different departments, 10 students and a mentor from industry. University provides grant and other required support to each team for conducting the research.
- Some of these projects taken by teams of the college are:
  - a) Predicting the financial crisis of companies based on Cash Flow Statement: An innovative approach
  - b) Health Insurance scheme for Domestic Workers: Public Private Partnership
  - c) E-mentoring in DU
  - d) Financial Inclusion-Issues & Challenges: An Empirical Study
  - e) The relationship between Investor Sentiment, Corporate Fundamentals and Price Multiples: An empirical Study
  - f) Dynamics of Virtual Banking: Measuring Effects and Efficiency in the Changing
  - g) Banking Environment
- College library has been automated using online and open-source library management system, KOHA.
- College is moving towards use of open source software. Most of the computer systems are on Linux operating system. The use of open source software is encouraged. Open source software advantages include high quality, no vendor lock-in, and lower software costs.
- To provide easy access to online resources, college campus has been given Wi-Fi connectivity. All students and staff are provided access to Wi-Fi which creates an effective learning environment.
- Innovative approaches are used by teachers while evaluating students. Innovations in pedagogy are reflected in practices like class presentations, assignments, tests, case-studies etc.

- Innovative techniques are used while delivering lectures like use of audio-video, graphical presentations, real-life examples etc. Theoretical knowledge is complemented with practical exposure wherever possible.
- To bridge the gap between classroom learning and industry, a separate cell, Management Interaction Cell (MIC), has been formed in the college. The MIC organizes industrial visits to provide hands-on practical exposure to students. The cell organizes an annual event also to highlight current important issues affecting the business environment.

### **7.3 Best Practices**

#### **7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.**

The main goal of our college is to enhance the learning in terms of academics, professional and personal growth of its stakeholders which includes students, teachers and administrative support staff. In our college, all colleagues apply the set of best practices for the ultimate welfare of the learners. Faculty sets high standards for the students and engages them in an ambitious course of study with clear goals and use their knowledge and experience to prepare all students for excellence in their academics and success in their prospective workplace. Administrative staff helps in providing the appropriate resources in the college to implement the approaches and techniques adopted by faculty members. Faculty and non-teaching staff members work in tandem with each other to improve the performance of the students. Although every practice followed by the teaching and non-teaching staff is worth mentioning, but we focus here on two practices followed by all the staff members.

#### **Best Practice 1: Holistic Development of Students**

##### **Goal**

To enhance physical, social, intellectual, creative and spiritual potential of students of the institute.

##### **Context**

In the contemporary environment, which changes continuously, the challenge for the college is to create academically sound, highly employable, value driven and socially responsible students.

##### **Practice**

In the college, students, teachers and non-teaching staff work together to achieve the mutual goal. The college has a culture of promoting a variety of activities to bring out the best in each student keeping in mind their varied interests and potential. College encourages students to organize and participate in a wide variety of extra-curricular activities, provides funds and institutional support for the same, recognizes and appreciates their contributions.

The list of activities carried out by the college is listed below:

- a) **Academically oriented Activities:** College has eight societies to cover different academic areas. Finance society aims to spread financial awareness among the students. Economics society aims to familiarize students with economic concepts, micro and macro-economic theories and principles, development of Indian and global economies. IT society aims at inculcating knowledge in the field of information technology. Marketing society aims to explore the capabilities and creativity of marketing enthusiasts of the college. Law society marks the initiation of a new era of inclination towards attaining knowledge of the law of land. Quizzing society provides an environment which enriches student's taste in anything that revolves around them. Debating society provides a forum through which students can hone their oratory and analytical skills. DU model united nations (DUMUN) is a platform to test the delegate's skills of diplomacy, negotiation, their spontaneity and level-headedness in a crisis situation.
- b) **Entrepreneurship Oriented:** Entrepreneurship society carries out the mission of promoting innovation and entrepreneurship to enable and seed business operations with guidance in product design, know-how acquisition, financial mobilizations for a young entrepreneur and providing networking opportunities. Another society Synergy, aims at developing skills that will help the students to realize their corporate aspirations and make them forces to be reckoned with in the business world. It organizes summits, events and undertakes initiatives that break away from the conventional formats of business events.
- c) **Performing Arts and Visual Arts Societies:** The Dance Society, Blitz & Jhankar, is a platform for expressing artistically through body movements. The Photography Society, Darkroom, aims to make students appreciate visual excellence and the magnificence this world has to offer. The College Music Society, Dhvani, is an endeavour for dissemination and enjoyment of music. The Dramatics Society, Fourth Wall, is a judicious mix of creative, imaginative, expressive and enthusiastic members. The Fine Arts Society, Kriti, works to open new avenues for students to help them discover and unleash their creativity and power of innovation.
- d) **Industry Interaction:** The management and corporate exposure cell of the college aims to bridge the gap between classroom learning and the industry which in turn helps the students to hone their skills and gain the upper hand when they step out into the fiercely competitive corporate world.
- e) **Socially Responsible:** The Street Play Society is a group of enthusiastic, energetic and informed youngsters who are interested in exploring the intricacies of the social structure through the inclusive medium of street theatre. The Social Service Society, NSS and Kartavya, exists with the motive of reaching out to the marginalised sections of the society which are deprived

of even the fundamental necessities of life. The Social Entrepreneurship Society, Enactus is the social entrepreneurial cell of the college. Enactus SSCBS is currently involved in 3 social outreach models namely, Sanitation Solutions, Project Akshar & Gramoddhar.

- f) **The Sports Society:** Society organizes sports activities and ensures that competitive sports activities along with academics forms an integral part of the student's lives thereby ensuring holistic development. As a part of the event, Parishram also organizes a special chess event for blind students from various NGOs.
- g) **Literary Society:** The literary society provides an environment to promote creative exchange and development. It manages the college newsletter CBSight and the annual college magazine Pathmanjari.

### **Contribution to Institutional objectives**

In consonance with the college vision and mission, we are providing multiple platforms to help students develop and reinforce their physical, social, intellectual, creative and spiritual potentials.

### **Evidence of Success**

The overall learning and development of students include:

1. Innovative themes and fresh ideas for events to be held every year
2. Event management skills- Teamwork, fund raising, venue selection, inviting speakers/judges, venue management, advertising and publicity using print and electronic media, designing and printing of brochures /invitations / banners /trophyes/ etc.
3. Self-confidence from organising/ participating/performing or speaking on stage/winning.
4. Soft skills: Students learn to work together, work under pressure, leadership, networking, communication and application of creativity in real situations.
5. Students organize many inter-university events every year. Universities across the nation participate in these events.
6. Many students have won prizes in national and international competitions held in other colleges and universities.
7. There is an increasing trend of students turning entrepreneur and starting their own ventures besides doing their graduation.
8. Placement of the students in industry in reaching new heights every year. Positive feedback from the employers speaks highly of the soft skills and academic expertise acquired by the students during their college life.

### **Problems Encountered and Resources required**

Lack of infrastructure in the college is a major constraint. The college does not have an auditorium. For most events students search for a suitable venue. The college provides funds for venue acquisition and students raise funds for other requirements. This problem will be solved once we shift into our new campus.

Constraint on financial resources is another problem in holding big events. College allocates certain amount of money for holding the events. Rest of the money is collected by the students in the form of sponsorship from corporate.

## **Best Practice 2: Web Based Processes**

### **Goal**

To streamline the processes and procedures of the college to adopt user-friendly, flexible, cost-effective and transparent solutions.

### **Context**

Information has been the key to success in every era. Use of technology in receiving, processing and disseminating for information is doing wonders in the contemporary world. Our college strives to make use of technology to its optimum so as to adopt a transparent and effective system for imparting information and knowledge.

### **Practice**

- i) For more a decade, library of the college had been using a library management system developed in-house by the library and lab staff. Recently, it has been replaced by a web based library management system, known as KOHA, developed by openLx Technologies.
- ii) The college has a fully functional and informative web site which was developed by the faculty and students of the college and continuously has been maintained in-house. The web site is continuously upgraded with new features.
- iii) A web based system has been developed by the students and faculty of the college where class-wise time table is entered by the administrator and corresponding day-wise and teacher-wise time table is produced on -demand.
- iv) A web based system has been developed by students and faculty of the college. Faculty can enter their monthly attendance from anywhere, anytime and students can immediately see that in their login.

Our college has different social, academic and cultural societies to promote extra-curricular activities. Through the web based system, teacher-in-charge of the society can manage the database of its students and attendance waiver record of each student. Each student can see the waivers as soon as they are entered.

The web based system also has the facility to enter the internal assessment record of all students. Each faculty can see the students list of classes they teach and enter the marks which are visible to students when they log in their account.

- v) To facilitate alumni interaction, a web based system has been developed by the students and faculty members of the college wherein an alumnus (mentor) can connect to current student (men tee) through a web site and exchange messages and chat online. Each men tee is matched to appropriate mentor and can seek guidance for higher

education, career opportunities, technical problems, entrepreneurship etc. The web site is currently under testing phase.

**Contribution to Institutional objectives**

This practice is enabling the college to provide easy access of information to its stakeholders. Since most of the projects are developed and managed by staff and students, it provides them with a platform to learn and work on real life projects. It will also help in conserving paper and help in reducing duplication of record keeping for various purposes.

**Evidence of Success**

All the projects are online and are currently in use.

**Problems Encountered and Resources required**

The developer team learnt new technologies on their own and implemented the above mentioned web solutions. At some places, team got stuck up at some technical issues related to programming and had to struggle a lot in finding the solutions. The college can plan to collaborate with industry experts of this area and gain knowledge from them. Another problem faced by the team was the selection of the web server. The web servers used for some of the projects had technical problems. In future, college may plan to have their own web server to avoid any break down.

## **Evaluative Report of the Departments**

**1. Name of the Department:** Management Studies

**2. Year of Establishment:** 1987

**3. Name of the course offered:**

Bachelor of Business Studies (BBS)

Bachelor of Business Administration (Financial Investment Analysis)\*

Bachelor of Management Studies (BMS)

\* formerly the nomenclature was Bachelor of Financial and Investment Analysis (BFIA)

**4. Names of Interdisciplinary courses:**

BBS/ BMS are interdisciplinary courses. First four semesters offer subjects like Accounts, Economics, Legislation, Business Communication, Statistics, Operations Research, Human Resource Development, Organizational Behavior, Consumer Behavior, Information technology etc. In addition, all students are offered Environmental Science as a paper. In last two semesters students specialize either in Finance, Marketing or Human Resource Management.

**5. Annual/semester/choice based credit system (Program wise):**

All three courses (BBS, BBA(FIA) and BMS) are of three years duration divided into six Semesters.

**6. Participation of the department in the courses offered by other Departments:**

Faculty of the management department contribute to the Computer Science Department of our college and other departments of University of Delhi at Postgraduate levels like Department of Business Economics, Department of Financial Studies through cooperative teaching.

**7. Courses in collaboration with other universities, industries, foreign institutions, etc. :**

The college runs NSE Certified Capital Market Professional (NCCMP) course of 100 hours in collaboration with National Stock Exchange of India Ltd (NSE). The department also encourages collaborative teaching by inviting eminent speakers from industry and academia and is exploring opportunities of more collaborative course with foreign universities and other eminent industry players.

**8. Details of courses discontinued (if any) with reasons:**

BMS is discontinued from 2014-15 as per the directives of University of Delhi due to the roll back of FYUP.

**9. Number of Teaching Posts:**

	Sanctioned	Filled
Principal		01
Associate Professors		08 (promoted from Assistant Professor)
Assistant Professors		20
Total	37	29

**10. Faculty Profile:**

**Faculty Leaders in Thought - Their Profile:**

S. No.	Name	Qualification	Designation	Specialisation	Exp. (years)
01.	Poonam Verma	Ph.D, M.Phil, M.Com	Principal	Marketing	29
02	Sanjay Kumar Goyal	Ph.D, M.Com	Associate Professor	Finance	29
03	Preeti Rajpal Singh	Ph.D, MBA	Associate Professor	Marketing	30
04	Hamendra Kumar Porwal	Ph.D, MBA, CA	Associate Professor	Finance	27
05.	Kavita Kapur	MBE	Associate Professor	Computer Application	26
06.	Rohini Singh	Ph.D, PGDM	Associate Professor	Finance	23
07.	Taranannum Ahmad	Ph.D, MBE	Associate professor	Human Resource Management	23
08	Anuja Mathur	Ph.D, MBE	Associate professor	Marketing	22
09.	Shalini Prakash	M.Phil, MA	Associate Professor	Economics	22
10.	Neeraj Kumar Sehrawat	M.com, MBA	Assistant Professor	Finance	5
11.	Kishori Ravi Shankar	M.Phil, MBA, LLB	Assistant Professor	HR and Law	22

12.	Kumar Bijoy	Ph D, MA, CFA	Assistant Professor	Finance	24
13.	Rishi Rajan Sahay	Ph.D, M Phil, M.Sc.	Assistant Professor	Operational Research	8
14.	Amrina Kausar	Ph. D, M.Phil.	Assistant Professor	Operations Research	5
15.	Ramesh Kumar	M.Phil, M.Com.	Assistant professor	Marketing	2
16.	Mona Verma	Ph.D, M.Phil, M.Sc..	Assistant Professor	Operational Research	8
17.	Madhu Totla	M.Com, C.A.,C.S.	Assistant professor	Tax and finance	2
18.	Nidhi Kesari	Ph.D, M.Com.	Assistant Professor	Corporate Laws, HRM	8
19.	Paridhi	M.Com, MBA	Assistant Professor	Finance	3
20.	Sushmita	Ph.D, MA	Assistant Professor	Economics	2
21.	Tushar Marwaha	MA , PGDM	Assistant Professor	Business Communicatio n	5
22.	Narander Kumar Nigam	M.Com	Assistant Professor	Finance	3
23.	Neetu Yadav	Ph.D, MBA	Assistant Professor	Strategic Mgmt	1
24.	Abhishek Tandon	Ph.D, M.Sc.	Assistant Professor	Operations Research	3
25.	Amit Kumar	M.Com	Assistant Professor	Taxation	4
26.	Neha	MBA	Assistant Professor	HR	4
27.	Raj Kumar	MA	Assistant Professor	Economics	3
28.	Abhimanyu Verma	MBA	Assistant Professor	Marketing	2
29.	Saumya Jain	M.Com	Assistant Professor	Finance	3
30	Srishti Gupta (Ad-hoc)	MA	Assistant Professor	Economics	1

Note: So far no guidelines were available with the college regarding guiding research scholars for their M Phil / Ph.D programs. As a result the college faculty has not guided any such research scholars.

**11. List of senior Visiting Faculty:**

The department makes special efforts to invite senior corporate officials like CEOs/CFOs/VP/GM and academicians from universities on a regular basis for special lectures on concurrent topics. In addition there are others who take entire paper in the courses run by the Department. Some senior visiting faculty who have been associated with this department for the last few years and having more than 10 years of teaching experience are listed below:

**A. Visiting Faculty from University of Delhi:**

- i. Dr. O M Agarwal, Shaheed Bhagat Singh College
- ii. Dr. Rakesh Sahini, Dr. Bhim Rao Ambedkar College
- iii. Dr. Amrendra Kr Singh, Shyam Lal College
- iv. Dr. Rajeev Ranjan Singh, Shyam Lal College
- v. Dr. Namita, Delhi University Computer Centre

**B. Visiting Faculty from other Academic Institutions:**

- i. Dr. Kriti Bhaswar Singh, Birla Institute of Technology, Mesra, Noida Branch
- ii. Dr. S L Gupta, Birla Institute of Technology, Mesra, Noida Branch
- iii. Dr. Ashish Verma, IMT Ghaziabad

**C. Visiting Faculty from Industry:**

- i. Mr. A.Gopalakrishnan, retired banker from Indian Overseas Bank
- ii. Dr. Harpal Singh- Legal Expert
- iii. Dr. V.K.Mehta- retired Indian Economic Services Officer (Secretary Level) of Planning Commission of India.
- v. Mr. Jayendra Malhotra- a practicing Chartered Accountant
- vi. Mr. Sanjay Kapoor- an Entrepreneurial Consultant
- vii. Mr. Rishi Mehra a Financial Consultant.
- viii. Mr. Harishwar Sharma- an independent Corporate Consultant

**12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:**

**BBS/BFIA/BMS**

<b>July 2013</b>	<b>64% (20/31)</b>
<b>Jan 2014</b>	<b>55% (17/31)</b>

<b>July 2014</b>	<b>6% (2/31)*</b>
<b>Jan 2015</b>	<b>6% (2/31)*</b>

\* Permanent appointment of 19 Assistant professors was made in June 2014.

**13. Student Teacher Ratio of the Department: 20:1**

**14. Number of academic support staff (technical) and administrative staff:**

Sanctioned and Filled

<b>Technical staff #</b>	<b>Administrative staffs#</b>
Sanctioned: <b>20</b>	Sanctioned: <b>38</b>
Filled: <b>18</b> Library: 07 Computer Lab: 10 Placement Cell: 01	Filled: <b>30</b>

# The above mentioned details include the staff for the college as a whole.

**15. Qualification of Teaching Faculty with D Sc/D.Litt/Ph.D/M.Phil/PG**

<b>Qualification</b>	<b>Number of Teaching Faculty</b>
D.Sc. /D.Litt.	NIL
Ph.D.	<b>15</b>
M.Phil.	<b>06</b>
PG	<b>29</b>

**16. Number of faculty with on-going projects from National and International funding agencies and grants received:**

Dr. Kumar Bijoy has been involved as a resource person in the following two projects from national funding agency:

A. Study on ‘**Unaccounted Income and wealth both within and outside country**’ (Study on Black Money) launched by Department of Revenue, Ministry of Finance

B. Study on ‘**The Central Autonomous Bodies of Government of India**’ conducted by **the Department of Expenditure, Ministry of Finance.**

**17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received:**

In recent years college has not been involved in any projects from Government agencies. However, in past, two research projects funded by UGC got successfully completed:

I. Targetted Public Distribution System in 2006 (worth Rs 25000) by Dr. Preeti Rajpal Singh

II. Intervention for Socio Economic Well Being of underprivileged women in Delhi for Delhi Commission for Women in 1999 (worth Rs 60000) by Dr. Preeti Rajpal Singh.

**18. Research Centre / facility recognized by the University:**

University of Delhi is trying to gear up research in the undergraduate constituent colleges through the scheme of Innovation projects. The main objective of the university is to encourage a culture of research by establishing better facilities and orient the teachers and students for meaningful research at college level.

University has awarded five Innovation projects (one in 2012-13 of Rs 1million and four in 2013-14 of Rs 0.3million each) worth Rs 2.2 million to the college in last two years.

**19. Publications:**

<b>Publication per faculty</b>	<b>4.7</b>
<b>Number of papers published in peer reviewed journals (national/ international) by the faculty and students</b>	<b>142</b>
<b>Number of publication listed in International Database (For Eg: web of science, Scopus, humanities international complete, dare database- international social sciences directory, EBSCO host, etc.)</b>	<b>NIL</b>
<b>Monographs</b>	<b>NIL</b>
<b>Chapter in Books</b>	<b>08</b>
<b>Books Edited</b>	<b>03</b>
<b>Books with ISBN/ISSN numbers with details of publishers</b>	<b>02</b>
<b>Citation Index</b>	<b>NIL</b>

**20. Areas of consultancy and income generated:**

The students of the consulting and knowledge cell of SSCBS “Grandeur” have completed a joint study research with NNA Consultancy Services Pvt. Ltd. related to Real Estates in NCT of Delhi. This collaboration has led to the establishment of the company’s real estate research wing called **Home Makers**, allowing individuals to make informed decisions. The students provided the firm with analysis and research on home grown indices to quantify and evaluate prevailing real estate market and project the path for future. Though no income has generated to college or students, a good amount of learning for the students is inbuilt.

**21. Faculty as members in (a) National committees (b) International committees (c) Editorial Boards:**

Dr. Poonam Verma (Principal) is member in the following committees:

- i. Appointed as UGC observer to oversee the selection process for promotion from Reader to Professor in Alagappa University, Alagappa Nagar, Karaikudi under CAS vide letter dt. 18<sup>th</sup> Nov, 2008
- ii. Member of the Nodal Advisory Body for the UGC proposal for introduction of e-governance in the University system nominated by the Vice Chancellor, DU vide letter dt. Nov 1, 2014.
- iii. Nominated as a member of the Advisory Committee of Vigyan Prasar, an autonomous organisation under the Dept. of Science & Technology, Govt. of India vide their letter dt. 8 July, 2011 to give directions and finalize the various programmes, review collaborative proposals and develop a roadmap for next three years
- iv. Nominated as Chairperson of the Expert Committee nominated by the UGC to evaluate the performance and academic attainments for the extension of autonomous status of Chhatrapati Shahu Institute of Business Education & Research (CSIBER).
- v. Member of the committee constituted by the Vice Chancellor, DU to propose change in nomenclature of Bachelor of Business Studies to Bachelor of Business Administration and Master of Financial Control to M.Com (Finance Control).
- vi. Member of the expert committee constituted by UGC to assess the proposals received under the schemes of Bachelor of Vocation (B.Voc.) and Community Colleges (CC).
- vii. Member of the Advisory Committee of Directorate of Hindi Medium Implementation, University of Delhi w.e.f. 23<sup>rd</sup> July, 2011 for a period of two years.
- viii. Member of the Advisory Council of Centre for Education Growth and Research (CEGR).

## **22. Student Projects:**

### **A. Percentage of students who have done in-house projects including inter departmental/programme:**

It is mandatory for every Student to undertake a project based on primary/secondary data in their sixth semester as partial fulfillment of their graduate degree. Every student has to complete their respective project under mentorship of one of the faculty members. The project report are evaluated by external subject experts also.

## **B. Percentage of students placed for projects in organizations outside the institution i.e. In Research laboratories / Industry /other agencies**

The design of the course is such that every student has to undergo 6-8 weeks of summer internship/ training with industry during their study. They work under the guidance of corporate guide who helps them in bridging the gap between theory and practice. They at the end of the training prepare a report based on their learning which get evaluated at two stages: one at the organization where they work and second at college where they have to submit the reports and share their learnings. Some of the students even get stipend from the organizations for the period which they intern with the industry. Many a time students also receive final placement offer from companies.

### **23. Awards/ Recognitions received by faculty and students:**

1. Dr. Anuja Mathur was awarded 'Best Teacher' in the year 2011. The award instituted by Directorate of Higher Education Govt. Of NCT Delhi .
2. Dr. Hemendra K Porwal was rated "Outstanding" for 2000/2001 and 2001/2002 based on overall evaluation by appraiser and reviewer for his performance in University Tenaga National, Kualalumpur, Malaysia.

**Awards received by students:** The college concentrates on all round development of students and encourage the students to participate in various competitions which is evident from their achievements both at International and National levels as given below:

#### **International Achievements (2013-2014)**

1. **Mahima Dissoria** (BBS second year) won all – expense paid seven days educational trip to the institutions of European Union in Brussels, Belgium in recognition of having met the highest standards of excellence at the ANTARAGNI LEADERSHIP INITIATIVE 2013, a debating competition organised by IIT Kanpur in association with the delegation of European Union.
2. **Sidharth Kapoor and Akhil Ahuja** (BBS second year) were selected for the student Ambassadorship Program of S.P.JAIN School of Global Management, Dubai.

#### **National Achievements (2013-2014)**

1. **Nitibha kaul** (BBS third year) won the grand finale with a cash prize of 1 million rupees to fund the app "Pepper Cam" in the 'NOKIA Your Wish is MY APP 2013' contest.

#### **International Achievements(2012-2013)**

1. **Harsh Tayal** (BFIA third Year) along with three other participants from Kazakistan, El Salvador and Denmark got selected for presenting the business plan on an "online swapping and renting model" in Cologne, Germany during XVIth World Business Dialogue.
2. **Shrutika Nagpal** (BBS) got First prize in Mridaksh, organized by IIT Bombay.

3. Team of students got many prizes in INSIGNIA, an annual management festival at St. Xavier's colleg, Kolkata: First Position in entrepreneurship and carbon credit; First position in flagship event JUGAAD; Third position in Ad honchos a marketing competition,
4. Team of students got Third position in PRATIBIMB- a business strategy competition at Vistas' 12 Annual management festival of IIM Banglore;
5. Team of students won Best marketer and Best Business law events at Symulate, management festival at symbiosis Pune.

#### **International Achievements (2011-2012)**

1. **Vasudha Wadhwa** (BBS third year) represented SIFE SSCBS at Skoll World Forum on Social Entrepreneurship, OXFORD UNIVERSITY.
2. **Ankit K. Dugar** (BFIA third year) was chosen from the college to be a part of team of ten students from Delhi University colleges to visit Australia India Institute and The University of Melbourne as a part of a Young Leaders Programme.
3. **Venika Wadhwa** (BFIA third year) participated in conference organised by Harvard University in partnership with Yonsei University in South Korea, under Harvard Project for Asia and International Relations (HPAIR).
4. **Pragya Gupta** (BFIA third year) participated in conference organised by Harvard University. This was under Harvard Project for Asia and International Relations (HPAIR).

#### **National Achievements (2011-2012)**

1. **Abhishek Rathi** (BBS third year) was awarded Best Intern under CSR/Non Profit Category under India's Promising Young Professional Awards. His internship report got published online.
2. A team of Students participated in the Global Business Challenge by CIMA (Chartered Institute of Management Accountants) London in association with Barclays. The team called 'TEAM NOVARUM' was the second runner up.
3. A team of students secured Fourth position at the national level and First position in the North Zone in Annual Management Convention at St. Xaviers, Kolkata.
4. **Manisha Goel, Shivya Gupta, Yakeen Agarwala** (BBS second year) won First prize in business plan competitions in Deen Dayal Upadhaya College and Shri Guru Gobind Singh College of Commerce.

#### **International Achievements (2010-2011)**

1. **Pragya Gupta** (BFIA Second Year) represented Team India and got Second Prize in business plan competition held at the National Cheng Kung University, Taiwan.
2. **Pragya Gupta** (BFIA Second Year) was selected as an International Climate Champion, held by the British Council, London and attended a camp with 37 other participants from across the world in Goa.

3. **Pragya Gupta and Venika Wadhwa** (BFIA second year) participated in Marshall International Case Competition (MICC) organised by Marshall School of Business, University of South California.

4. **Sudhanshu Tyagi, Ashish Aggarwal, Manu Sharma** (BFIA second year) and Prachi Grover (BBS first year) participated in Rubicon Contest held in Germany. It was a business competition for undergraduate students from all around the world.

**National Achievements (2010-2011)**

1. Verve, the Street Play society of SSCBS won the first prize in ‘HALLA BOL’ organized by IIM Ahemdabad.

**24. List of eminent academicians and scientists/ visitors to the department:**

The college has an established practice of inviting eminent academicians and scientists/ visitors on a regular basis on various occasions like Seminar, Workshop, Conferences, and Annual Day function. In past years the person of repute who graced the college functions and blessed the students with their wisdom are: The then Chief Ministers like Shri (late) Saheb Singh Verma, Smt. Shiela Dixit; Central Government and state level ministers Shri Nitin Gatkari, Shri Ajay Makan, Smt. Krishna Tirath, Smt. Kiran Walia; Member of Parliaments Shri JP Agarwal; Dr. Ashok Tanwar; Vice -Chancellors and Pro-Vice Chancellors of Central and State universities Prof. Upendra Baxi; Prof. V S Mehta; Prof. Deepak Pental; Prof. Dinesh Singh; Prof. S L Malik; Prof. Girishwar Mishra, Dr. Kavita Sharma; Prof. Vivek Suneja.

Several Eminent corporate leaders and researcher have also visited the college and interacted with students and faculty members during various seminars/lectures/interactive session, etc. Some of them are listed below:

1. Dr. V.P. Apaan (Lawyer, Supreme Court)
2. Dr.C.J. Rawandale (Director, Faculty of Law, Symbiosis, Noida)
3. Mr. Yogesh Suman (Scientist ,CSIR)
4. Mr. Rajiv Bajaj (Legal Head, Associate Director, Panasonic India)
5. Dr.Alka Chawla (Associate Professor, Faculty of Law)
6. Mr. Siddhartha Sharma (CEO, Success Monks Performance Consulting)
7. Mr. Puneet Sethi (Founder, Director, Aaracle Solutions Pvt. Lim.)
8. Mr. Sanjay Singh (President, Hero Cycles)
9. Mr. Vikas Jain (CEO and Founder,Adhyan Innovative Learning)
10. Mr. Kunal Arora (Co-founder, The Education Tree)
11. Mr. Sandeep Bhardwaj (Deputy General Manager, Tata Motors)
12. Mr. Neeraj Manik (Vice President-Finance, IBM India)
13. Mr. N.K. Goyal (President CMAI)
14. Ms. Suhasini Haider (Journalist, CNN-IBN)
15. Mr. Dhirender Kumar (CEO Value Research)

16. Dr. Vinod Kumar (Senior Dean, ICFP)
17. Mr. Suman Kumar (CS, SMC Global Securities)
18. Mr. Vijay Sethi (Vice President, IT a& Communications, Hero Motocorp)
19. Mr. K.T. Chacko, (Director, Indian Institute of Foreign Trade, Delhi)
20. Mr. Ajay Seth (CFO, Maruti Suzuki India Ltd)
21. Mr. B.V. Rao (Chief Editor, Governance Now)
22. Mr. Rajiv Makhni (NDTV TECHGURU)
23. Ms. Ishita Chawdhary (CEO, the YP Foundation).

**25. Seminars/ Conferences/ workshops organized and the source of funding:**

The College is actively involved in conducting workshops/seminars/faculty development programs that are aimed at nurturing a culture of research among the faculty members and students. College organizes annual seminar ‘CONVERGENCE’ and several other workshops and conferences. The source of funding is sponsorship raised from industry and through college from the funds allocated for this purpose. The details of these programs are as follows:

1. **Faculty Development Program** on Financial Econometrics (Oct.06 to Oct.11, 2014) where participants were both from our own college and also from other colleges of the University of Delhi.
2. **Convergence:** Convergence is the Annual Corporate Convention of the College. The college has been organizing this convention since the inception of the college. The convention is based on a contemporary theme which takes into account various aspects of the corporate world like Finance, Marketing, Human resource, and Information technology. The discussions in the convention update the knowledge of participants making them acquainted with the latest development in the respective field.

**Convergence 2014 (Theme: Revolution is Evolution)**

**Convergence 2013 (Theme: India’s way to develop: Connecting to dots)**

**Convergence 2012 (Theme: India’s route to success: Transforming potential into performance)**

**Convergence 2011 (Theme: Exploring contemporary vistas: Road ahead to success)**

3. **Faculty Development Program** on SPSS in 2012 focused on capacity building for research works..

**26. Student Profile Programme/Course Wise: Admission details**

Year	Name of the	Applications Received	Selected	Enrolled	Pass Percentage

	Course			Male	Female	(%)
2014-15	BBS	22563	196	130	66	94.18 (2011-2014)
	BFIA		69	50	19	89.86 (2011-14)
2013-14	BMS	22690	323	195	128	93.51(BBS 2010-13) 90.91 (BFIA 2010-13)
2012-13	BBS	15727	204	113	91	99.38 (2009-2012)
	BFIA		67	46	21	97.83 (2009-2012)
2011-12	BBS	15409	199	94	105	100 (2008-2011)
	BFIA		67	42	25	94.74 (2008-2011)

### 27. Diversity of Students:

Year	Name of the Course	% of Students from the same state NCT of Delhi	% of Students from other states	% of Students from abroad
2014-15	BBS	81.63	18.37	NIL
	BFIA	79.71	20.29	NIL
2013-14	BMS	70.59	29.41	NIL
2012-13	BBS	69.12	30.88	2 students
	BFIA	80.60	19.40	2 students
2011	BBS	78.39	22.11	NIL

-12	BFIA	68.66	31.34	2 students
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**28. How many students have cleared national and State Competitive Examinations such as NET, SLET, GATE, Civil Services, Defense Services etc?**

The College does not have any practice of recording the information on this aspect.

**29. Student Progression:**

The department is running two courses BBS and BFIA and the basic objective of these courses is to make them employable and encourage them for entrepreneurial activities. Over the years more than 80% students get placed with industry as given in the following chart for last four years.



A total of 68 companies have visited the campus in last 4 years. For the current placement session which would go on till May’ 15, a total of 30 companies have already visited the campus and 42% of the batch has been placed so far. A good number of our students have set up their own entrepreneurial startups. Amongst many we have 17 successful startups to the credit of our students (details are given in 5.1.5 of Criterion V).

College has endeavored to continuously develop and enhance the skills of our students and to make them well equipped to handle the challenges of the industry and the environment. The college takes pride in its august and eminent alumni who are today in positions of reckoning in the corporate world. Details of our alumni are given below:

<b>NAME</b>	<b>YEAR</b>	<b>PRESENT POSITION</b>
Dhirendra Kumar	1990	CEO, Value Research India
Jaismin Pant	1990	Vice President, Credit Suisse Services India Pvt Ltd
Naresh Priyadarshi	1991	Head of Business Consulting, Synovate India
Harmeet Ahluwalia	1995	Director of Research, Global Banking and Insurance at McKinsey & Company
Nikhil Ganju	1995	Country Manager - India at TripAdvisor
Anuraag Sunder	1997	Managing Consultant at PricewaterhouseCoopers
Shwaita Vaish	1997	Sr Vice President & Head - Investment Advisory Services at HSBC
Rahul Mathew	1998	Creative Head, DDB Mudra West
Shivam Sethi	1998	Senior Vice President -Global Online Wealth Management Business at Citibank
Mridula.M	1999	Manager,Treasury , ICICI Bank
Tarun Mehta	1999	Director at Bank of America Merrill Lynch (London)
Pranav Chaturvedi	2003	Co-founder IIFM limited
Sumit Chugh	2003	Senior Product Manager at Amazon
Mayank Jain	2003	Consultant, Nokia Siemens, Singapore
Pragya Bansal	2003	Associat Director, Fitch Rating
Upasna Kapoor	2003	HR Manager, Deloitte
Asit Sharma	2003	Senior Consultant at Roland Berger Strategy Consultants
Sameer Kumar	2005	HR Business Partner at Amazon
Ankur Jain	2005	Secondary market Analyst, Everbank, Florida

Sugam Dhall	2006	Head - Fashion Brands at Snapdeal
Rahul Chada	2007	Associate Vice President at Langham Capital
Varun Sharma	2007	Research Analyst at Franklin Templeton India
Komal Makkar	2007	Analyst at Goldman Sachs
Prashant Gupta	2007	Associate Director, Beryl India
Himanshu Jain	2008	Associate at McKinsey & Company
Rachna Biyani	2009	Associate at Barclays
Aparajita Bharti	2010	Project Manager, Strategic Partnerships, Snapdeal
Tulika Jajoria	2010	Senior Specialist at Fidelity Investments
Sidharth Sharma	2010	Founder, Success Monks
Manav Narang	2011	Business Development Analyst at Essex Lake Group
Himanshu Bhalla	2012	Creativa India Founder
Nakul Khanna	2013	Campaign Manager, Google

Since the college is primarily focusing on under graduate courses, exact information regarding students pursuing M Phil and Ph.D is not available.

### **30. Details of Infrastructure Facilities:**

- i. Library-Library is enriched with wide variety of books and journals on management and technology. Library subscribes large number of reputed journals through Delhi University library system and DELNET.
- ii. Internet facilities for Staff & Students-The campus is wi-fi enabled and a free access is provided to the students and staff.
- iii. Class rooms with ICT facility- All the class rooms are equipped with LCD projectors

- iv. Laboratories- There are 5 laboratories providing ample computing facilities both on Linux and Windows platform. These facilities are shared by all the students across both the department.  
(The complete infrastructural details are provided in criteria 4 of the SSR)

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Year	2010-11	2011-12	2012-13	2013-14
No. of Students availing KPMG Scholarship	1	26	36	44
Amount of KPMG Scholarship	10350	400000	457540	400000
No. of Students availing Financial Assistance from Delhi Govt.	6	4	10	**
Amount of Financial Assistance from Delhi Govt.	96205	33720	101800	**
No. of Students availing free ship	nil	3	2	1

The above mentioned details include the students from both the departments.

\*\* College is now only forwarding the applications for the financial assistance received from the students to the Govt. Of Delhi and the students are directly receiving the assistance from the govt. Therefore college has no records for the same.

**32. Details of student enrichment program (special lectures/ workshops/ seminar) with external experts:**

The college effectively and persistently organizes enrichment programs for students through Entrepreneurship and Employability Skills Sessions (ESS). The entrepreneurship sessions for the students aim at actively promoting a culture of entrepreneurship amongst students. The 12 hour sessions during the semester ignite in the minds of the students the need and the benefits of being an entrepreneur. The faculty members are trained entrepreneur educators certified by National Entrepreneur Network (NEN). In the ESS special attention is to bridge the gap between – “What the industry wants?” and “What the academics offer?” The 20 hours ESS session during the semester equips the students for all the requisite skills to join the corporate workforce. The behavioral traits learned through the workshops greatly improves their communication and interpersonal skills. The basic ESS course focuses on

communication skills both verbal and non-verbal, resume writing, Group Discussion and personal interview, case study and guess estimates. The workshops are conducted by industry experts and certified trainers. In addition to this teachers also provide personal and psycho-social counseling in an informal manner to all the students on regular basis. The Advanced Employability Skills Sessions (AESS) further prepare the students at advanced level for company specific interview.

The Career Development Cell, the placement cell of college, is dedicated to foster placements / recruitments in a very structured manner. The cell pitches to various companies across diverse industries for holding pre-placement talks and recruiting students from the college .

Workshops for students are conducted focusing on: Management & Leadership Development, Managerial Oral Communication, Problem-solving and Negotiation, Innovation and Critical thinking, Corporate Etiquettes, Time-management and others.

### **33. Teaching methods adopted to improve student learning:**

- Teaching pedagogy is interactive through case studies, inviting speakers from industry and conducting workshops on contemporary and relevant areas of technology.
- Motivating students to undertake projects so that they have hands on training and experience in the desired area of their interest.
- Encouraging students to use e- journals and other e-resources.
- Encouraging students to give presentations in the class to hone their communication and presentation skills.
- Knowledge research cell of the college promotes students to initiate research activities

### **34. Participation in Institutional Social Responsibility (ISR) and Extension activities:**

College has a rich culture of laying emphasis on the holistic development of the students. Department encourages students to participate in activities of the various students societies of the college which are working for the marginalized section of the society . College has a social service forum, “Kartavya” which organizes various social activities like Blood Donation camps, collection drives, awareness camps about social issues etc. Enactus SSCBS is the social entrepreneurial cell of the college. A team of students from both the departments, under Enactus SSCBS is currently involved in 3 social outreach models namely, Sanitation Solutions, Project Akshar & Gramoddhar. In September 2013, college has started National Service Scheme (NSS), a chapter of University of Delhi. The details are given at 3.6.1 of criterion III. In addition, the students are engaged in social entrepreneurship projects where they have adopted a village, to

promote awareness amongst the villagers and help them to augment their income. The Project *Hunar* has undertaken to train the youth living in the nearby area to train them and increase their employability.

### **35. SWOC analysis of the department and future plans.**

#### **Strengths**

##### **College with ‘professional culture ab initio’**

This college was established in 1987 with the objective of creating a generation of young management professionals to cater to the needs of emerging India. This is the first college in the country to impart Management Education at the undergraduate level with the introduction of Bachelor of Business Studies (BBS) and has evolved with a culture of Innovation. The college is committed to provide various platforms to the students for an enriched holistic educational experience. The second course started by the college in 1999, Bachelor of Financial and Investment Analysis (BFIA), was a step ahead with super specialization in the area of Finance. Till date no other college of University of Delhi is offering this course. The syllabus of the courses have been revised periodically to maintain its relevance with changing corporate requirements.

##### **Faculty and Technical Staff**

The college has dedicated, hardworking, industry experienced and professionally qualified like CA, CS, CFA, LLB, MBA faculty, in addition, to their essential academic qualification. 50% of the faculty are Ph.D and the others are working towards it. Through the enriched Industrial experience of the faculty the gap between theory and practice is bridged in the class rooms.

##### **Students**

Students are our pride. Their learnings get transferred to environment and society, care and contribution to economy. The students are nurtured to face the cutting edge competition which enables them to fare better in coping up with the challenges of the world. The achievements of the students and position of the alumni in the industry is an evidence of the same.

##### **Innovation Projects**

Innovation projects taken up by the college are yet another strength where students along with teachers and industrial mentors work on new ideas and conclude to implementable projects. Students are motivated to undertake inter departmental innovation projects along with the faculty members enabling them to have hands-on experience in implementing new ideas.

##### **Entrepreneurial Culture**

College since inception, has focused on developing the students to take the challenges of the society, work for economic development and contribute as an entrepreneur. The college further put its continuous efforts, to cultivate the

entrepreneurial culture among students. This has resulted into increasing number of Young Entrepreneurs year after year.

**Mentor-ship/Personal counseling**

Each teacher makes himself or herself available to the students for their professional as well as personal problems through the counselling sessions on a regular basis and students take benefit of them in shaping their future and resolving their personal and professional issues.

**Holistic Development**

The college has a rich culture of laying emphasis on holistic development of students. To strengthen this every teacher heads at least one society of the students and work towards imparting life skills to students in addition to their class room learning.

**Corporate recognition**

Our college is a preferred choice amongst the recruiting companies which is evident from their repeated participation in the placement process. The continuous and collective effort of all teachers have put this college on premium brand which get reflected through the continued patronage of the recruiters, both Multinational and National Corporations.

**Social recognition**

The grand acceptance of this college by the society is reflected at the time of admission, by becoming the first choice of all aspirants, who are selected on the basis of national level entrance exam plus the interview and group discussion.

**Weakness:**

The college is running for last 27 years in a small school building which has limited Infrastructural capacity. The absence of Auditorium, Hostels and Staff quarters also limit the fuller utilization of this institution. Because of this we are also restricted to have any international collaboration and giving the students a global experience.

However, this limitations will be overcome in the next two years by moving to its new building campus by the year 2017.

**Opportunities:**

Indian Economy is evolving and progressing at faster pace which provides tremendous opportunities to this college for national and international collaborations with other institutes and universities; starting of new courses to cater the emerging demands of professional skills; more thrust on entrepreneurial culture among students and establishment of Incubation center; Partnership with private equity, venture capitalists and other institutions for funding new ideas, etc.

**Challenges:**

The students of 21<sup>st</sup> century are different from the previous generation. Mere sharing of Information with students is not going to work. Ocean of Information is available in every handset in technologically revolutionized world. So, teachers have to learn to keep pace with it and must learn to transform information into Knowledge and further carry that knowledge to the level of Application. They must learn to connect the theory with practice and evolve with evolution of technology. Curriculum wise the college has to keep pace with the global dynamics according to the needs of multinationals. In addition to this, another challenge is to maintain the ethics and moral value system among the students. This is possible only through the collective effort and holistic approach of teaching learning process. The college has to see that Students should know and respect the rich cultural heritage of India and contributes towards its further enrichment and spread throughout the globe.

The long term plan is to make this college as a center of excellence through high end learning, innovative and research oriented activities in the field of Management along with high moral value and ethos.

## Evaluative Report of the Departments

1. **Name of the department:** Computer Science
2. **Year of Establishment:** 1991
3. **Names of Programmes /Courses offered(UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.):**  
B.Sc.(H) Computer Sc., B.Tech.(Comp. Sc.)(only for 2013 batch)
4. **Names of Interdisciplinary courses and the departments/units involved:**
  - Interdisciplinary courses like Technical Documentation, Operations Research, Statistics, Mathematics and Economics are offered to the all the students of Computer Science
  - 11 foundation courses like Entrepreneurship, Management, Governance and Citizenship, Philosophy, Psychology, Communication and Life Skills, Socio-Economic Diversity, Indian History and Culture were offered to the students of B.Tech. course.
  - All the B.Sc.(H) students are offered environmental Studies paper.
5. **Annual/semester/choice based credit system (programme wise):**  
B.Sc.(H) is of 3 years duration divided into 6 semesters.  
B.Tech.(Comp. Sc.) is of 4 years duration divided into 8 semesters.
6. **Participation of the department in the courses offered by other departments:**  
The department contributes in teaching courses in the Management Studies department whenever required.
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**  
The department encourages collaborative teaching by inviting eminent speakers from industry and academia and is in the process of exploring an opportunity of starting a collaborative course with the industry/foreign university.
8. **Details of courses/programmes discontinued (if any) with reasons:**  
The following courses have been discontinued by University of Delhi
  - Post Graduate Diploma in Computer Sc. started in the year 1991 and discontinued in 2012.

- B.Tech.(Comp Sc.) started in the year 2013 and discontinued in 2014 due to roll back of FYUP.

9. **Number of teaching posts:**

	<b>Sanctioned</b>	<b>Filled</b>
Professors	Nil	Nil
Associate Professors	Nil	Nil
Assistant Professors	07	07 out of which 1 has been promoted as Associate Prof

10. **Faculty profile with name, qualification, designation, Specialization, (D.Sc./D.Litt./Ph.D./M.Phil.etc.):**

Name	Qualification	Designation	Specialization	No.of Yrs Experience	No. of Ph.D. Students Guided for the Last 4 yrs
Kavita Rastogi	M.Sc.(Comp. Appl)	Associate Professor	Software engineering,	23	nil
Anamika Gupta	MCA , Ph.D.	Assistant Professor	Computer Science	13	nil
Ajay Jaiswal	M.Sc.,M.Tech.(CSE)	Assistant Professor	Pattern Recognition	14	nil
Shikha Gupta (on study leave)	MCA, M phil.	Assistant Professor	Social network analytics	13	nil
Sameer Anand	M.Sc., M.Phil., Ph.D.	Assistant Professor	Software reliability,	10	nil
Onkar Singh	M.Sc.(Comp.Sc.)	Assistant Professor	Information Security	5	nil
Sonika Thakral	MCA, M.Phil.	Assistant Professor	Theoretical Computer	9	nil

Gurjeet Kaur (on leave vacancy)	M.Sc, M.Phil, P.hd	Assistant Professor	Operational Research	2	nil
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**11. List of senior visiting faculty:**

Department invites the experts on various topics on a regular basis. To name a few:

- Dr. Manoj Aggarwal, Department of Comp Sc., Hansraj College, University of Delhi
- Dr. Rajeev Ranjan Singh, Department of Comp Sc., Shyam Lal College, University of Delhi
- Dr. Arvind, Department of Mathematics, Hansraj College, University of Delhi
- Dr. Puneeta Saxena, Department of Mathematics, Shaheed Raj Guru College of Applied Sc., University of Delhi
- Dr. Ratnesh Saxena, Department of Mathematics, Deen Dayal Upadhyaya College
- Mr. O.S. Srivastava, Retired programmer, Computer Centre, University of Delhi
- Mr. Basant Mishra, Department of Comp Sc., Ram Lal Anand college, University Of Delhi
- Mr. Ashish Jha, Department of Comp Sc., College of Vocational Studies, University Of Delhi
- Mr. Saifuddin Ahmad, Department of History, University of Delhi

**12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:**

BSc(H)/B.Tech Theory classes : approximately 3% classes taken by temporary faculty

Practical classes: None by the temporary faculty

Classes of the additional sections of B.Tech. course (created due to extra admissions in the year 2013- 2014) are handled by guest/temporary faculty.

**13. Student-Teacher Ratio (programme wise) BSc(H)/B.Tech: 19:1**

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

<b>Technical</b>	<b>Administrative staff</b>
Sanctioned: 20	Sanctioned: 38
Filled: <b>18</b> Library: 07 Computer Lab: 10 Placement Cell: 01	Filled: <b>30</b>

The above mentioned staff supports courses across both the departments.

**15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.:**

<b>Qualification</b>	<b>Number of Teaching Faculty(Total 7)</b>
D.Sc /D.Litt	NIL
Ph.D	<b>4</b>
M.Phil	<b>5</b>
PG	<b>7</b>

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**  
Nil

**17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:**

The following projects have been funded by University of Delhi and total grant of Rs.16 Lakhs has been given for the following inter-departmental innovation projects

- Financial Inclusion-Issues and Challenges: An Empirical Study 2013-2014
- e-Mentoring in University of Delhi 2013-2014
- Investor Sentiment in the Indian Financial Market: An Empirical Study 2012-2013

**18. Research Centre/facility recognized by the University:**

University of Delhi is gearing up the undergraduate colleges to establish research facilities and orient the teachers and students for research at college level. To achieve this objective, the University has extended financial support towards inter-departmental innovation projects undertaken by the colleges under Innovation Project Scheme.

Details are given in 3.4.1 of Criteria III

**19. Publications:**

a) **Publication per faculty** 28/7=4

b) **Number of papers published in peer reviewed journals (national/international) by faculty and students**

Faculty name	International Journals	National Journals	National/International Conferences
Dr. Sameer Anand	12	0	
Dr. Ajay Jaiswal	4	0	
Dr. Anamika Gupta	1	0	4
Sonika Thakral	1	0	3
Onkar Singh	0	1	
Dr. Gurjeet Kaur	6	0	

Detailed list of publications of the individual faculty members is given in ANNEXURE...1B

**\*Number of publications listed in International Database(For Eg: Web Of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.) NIL**

**\*Monographs: NIL**

**\*Chapter in Books 03**

Dr Anamika Gupta:

1. Vasudha Bhatnagar, Anamika Gupta, Naveen Kumar, Algorithms for Association Rule Mining, [Encyclopedia of Artificial Intelligence](#), Information Science Reference, IGI Global, 2008, pg 76-84, ISBN 9781599048499

<http://www.informatik.uni-trier.de/~ley/db/reference/ai/ai2009.html#BhatnagarGK09>

2. Anamika Gupta, Shikha Gupta, Naveen Kumar, Mining Frequent Closed Itemsets for Association Rules, Handbook of Research on Innovations in Database Technologies and Applications, Information Science Reference, IGI Global, 2009, ISBN 9781605662428, pg 537-546

<http://www.igi-global.com/chapter/mining-frequent-closed-itemsets-association/20738>

Dr. Ajay Jaiswal:

Kumar N., Agrawal R. K., Jaiswal A. "A Comparative Study of Linear Discriminant and Linear Regression Based Methods for Expression Invariant

Face Recognition” Advances in Signal Processing and Intelligent Recognition Systems Advances in Intelligent Systems and Computing ISBN: 978-3-319-04959-5, Springer, Vol 264, pages: 23-32, 2014.

**\*Books Edited:** Nil

- \* Books with ISBN/ISSN numbers with details of publishers
- \* Citation Index
- \* SNIP
- \* SJR
- \* Impactfactor
- \* h-index

**20. Areas of consultancy and income generated:**

Nil

**21. Faculty as members in**

a) National committees b) International Committees c) Editorial Boards

Dr. Anamika Gupta:

1. Selected as member of International Program committee of the 4<sup>th</sup> International Conference on Computational Collective Intelligence Technologies and Applications (ICCCI 2012), organized by University of Information Technology, Vietnam National University HCM and [Wrocław University of Technology](#) in Poland, held at Vietnam.
2. Selected as member of International Program committee of the 5<sup>th</sup> International Conference on Computational Collective Intelligence Technologies and Applications (ICCCI 2013), organized by [University of Craiova](#) in Romania, and [Wrocław University of Technology](#) in Poland, held in Romania.

**22. Student projects a) Percentage of students who have done in-house projects including interdepartmental/programme:**

- Every student undertakes at least one in-house project as a part of the curriculum.
- The other in-house projects undertaken by students under the guidance and mentorship of the faculty are - college website, time table management tool, attendance and internal assessment management tool, and

E-mentoring and alumni interaction tool.

i) College website development:

College web site was developed by the students under faculty guidance and is being maintained by the systems and network administrator of the college.

ii) Time table management tool:

A web based system has been developed by the students and faculty of the college where class-wise time table is entered by the administrator and corresponding day-wise and teacher-wise time table is produced on demand.

iii) Attendance management tool:

A web based system has been developed by students and faculty of the college. Online entry of monthly attendance is done by the faculty; students can view their attendance record through their respective logins.

iv) Internal assessment management tool:

The web based system also has the facility to enter the internal assessment record of all students. Each faculty can see the students' list of classes they teach and enter the marks which are visible to students when they log into their account.

v) E-mentoring and Alumni interaction tool:

To facilitate alumni interaction, a web based system has been developed by the students and faculty members of the college wherein an alumnus (mentor) can connect to current student (mentee) and exchange messages and chat online. Each mentee is matched to appropriate mentor and can seek guidance for higher education, career opportunities, technical problems, entrepreneurship etc.

- Students have developed several mobile apps which have been well recognized by the industry.

Details are given in pt. 23 of the Department Evaluation Report

**b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: nil**

### **23. Awards/Recognitions received by faculty and students:**

Faculty:

More than 40% of the faculty of the department has been awarded best teachers award instituted by Directorate of Higher Education

Dr. Sameer Anand:

- Best teacher award in the year 2012 instituted by Directorate of Higher Education, Govt. of NCT, Delhi.

Dr. Anamika Gupta:

- Received Nav Kiran award in 5<sup>th</sup> national women excellence award ceremony in the year 2012 organized by Women International Network.
- Best teacher award in the year 2013 instituted by Directorate of Higher Education, Govt. of NCT, Delhi.

Dr. Ajay Jaiswal:

- Best teacher award in the year 2014 instituted by Directorate of Higher Education, Govt. of NCT, Delhi.

Sonika Thakral:

- Research paper selected for oral presentation at Research Scholar Day in Association for Computing Machinery, Annual Event 2014.(Out of a total of approximately 50 submissions across India, 7 were selected for an oral presentation)
- Research paper selected for oral presentation at IRISS (Inter Research Institute Student Seminar) collocated with Association for Computing Machinery, Annual Event 2015.(only 16 of the total submissions were selected for oral presentation)

### **Students Achievements**

Students have won number of awards and prizes in various competitions at all levels. Programming and application development ventures have been well recognized by the industry as well.

#### **Aviral Aggarwal**

- Won 1st prize in Overnight coding event at Deen Dayal Upadhyay College, 2013-2014
- Won 2nd prize in Apply at Deen Dayal Upadhyay College, 2013-2014
- Won 2nd prize in Delhi at Geeklist Hackathon, 2013-2014
- Won 2nd prize in MAD (Mobile Application Development) at Jamia Hamdard University, 2013-2014
- Won 2 Gamepads from Blackberry Developer Program, 2013-2014
- Won 100\$ and A Tizen Device (S3) from Samsung and Intel, 2013-2014
- Won Lumia 820 from Microsoft USA and Marmalade, 2013-2014
- Won Lumia 520 From DVLUP and Nokia India, 2013-2014
- Won Asha 502 and Asha 311 from Nokia India, 2013
- Distinguished Developer in Microsoft Official Club, 2013-2014
- Won 2nd prize in Code for Efficiency at Apeejay Satya University

#### **Garvit Gupta**

- Recognized Developer at Microsoft since August 2013.
- Awarded various Nokia Lumia devices.
- Apps have been featured on major blogs like wpcentral.com and phonearena.com
- Has been awarded with the tag of DVLUP hero of the week.
- More than 1 lakh downloads, more than 4000 reviews (with rating 4.5 star) on Windows Phone Store.
- Generated an amount of 15,000 (cash) through app purchases.
- Has been invited to various Developer events by Nokia India.

#### **Aditya Chaudhary & Deepak Singh Pawar**

- Developed a social portal for students of University of Delhi to connect with mentors and alumni (E-mentoring)
- Recognized Developer at Microsoft since 2014.

- Published various apps on Windows platform.

**Puneet Rawat**

- App named “ORBIT” published on Android platform. (Interactive game)

**Kushal Jain**

- selected as a student partner for Microsoft and as a student ambassador for Firefox and Google.

**Kunal Sidhwani**

- created 19 applications over Symbian and windows platform.

**24. List of eminent academicians and scientists/visitors to the department:**

The college has a practice of inviting eminent speakers from Industry/ Government organizations/Research centers on regular basis on various occasions like seminars, conferences, workshops, Convergence and Annual Day function.

Few of the eminent speakers who have visited the department are:

- Dr. Aparna Mehra , Department of Mathematics, IIT, Delhi
- Smt. Shelia Dixit, the then Chief Minister of Delhi.
- Sh. Saheb Singh Verma , the then Chief Minister of Delhi.
- Mr. Nitin Gadkari, Union Minister of roads, transport and urban development
- Vice-Chancellors and Pro-Vice Chancellors of Central and State Universities: Prof. Upendra Baxi; Prof. V.S. Mehta; Prof. Deepak Pental; Prof. Dinesh Singh; Prof. S.L. Malik; Prof. Girishwar Mishra, Dr. Kavita Sharma; Prof. Vivek Suneja;
- Mr. Yogesh Suman, Scientist, CSIR
- Mr. Vijay Sethi, Vice President, IT & Communications, Hero Motocorp.
- Ms. Ishita Chawdhary, CEO, the YP Foundation.
- Prof. P. K. Kapur, Head, Department of Operational Research, Univ. Of Delhi
- Mr. Sujeet Panigrahi, CEO, Convergent Technologies Pvt. Ltd.
- Sh. Alok Vijayant, Director of Cyber Security Operations, National Technical Research Organization, Government of India
- Mr. Mukesh Jain, Director, STWebSoft

**25. Seminars/Conferences/Workshops organized & the source of funding :**

College organizes annual corporate convention ‘CONVERGENCE’ and several other workshops and conferences. The funding is through sponsorships raised from industry, and college funds allocated for this purpose.

- Workshop on PHP-tool for creating dynamic web pages.
- Workshop on “learning styles and Publishing tips” conducted by Sri Beldona from University of Dallas.

- A special lecture on “Cloud Computing” conducted by Microsoft representative.
- Workshop On “Android Apps”, conducted by NIIT Technologies.
- Talk on “Ux Design” by Mr. Ankur Sardana, Design Manager, Samsung- 2014
- Workshop On “Android Apps”, NIIT Technologies, Sept, 2014
- Workshop on “Web Application Penetration Testing” by Mr. Karthik Verma, lecturer and examiner for the National Security Database Empanelment Programs, Oct 2014
- Talk on “Combating the threat of growing Cyber-Naxalism” by Sh. Alok Vijayant, Director of Cyber Security Operations, National Technical Research Organization, Government of India, Oct 2014 at SSCBS.
- A special training program was conducted to enhance the soft skills of the students. This was conducted by Lok Bharati Education Society.
- 5 day workshop on “Web Based Technologies” by Mr. Mukesh Jain, Director, STWebSoft, Dec, 2013.
- Organized seminar “Career Opportunities for Computer Science Graduates”.

15 eminent alumni from different areas were called as speakers to discuss the career options for computer science graduates, Sept 2012

- Organized seminar “Career Opportunities for Computer Science Graduates” Sept 2011.
- A seminar on “Modelling and optimization in technology and management” Feb 2011

Convergence is the Annual Corporate Convention of the College. The college has been organizing this convention since its inception. The convention is based on a contemporary theme which takes into account various aspects of the corporate world like Finance, Marketing, Human resource, and Information Technology. The discussions in the convention update the knowledge of participants making them aware of latest development in the respective corporate field.

- Convergence 2014 (Theme: Revolution is Evolution)
- Convergence 2013 (Theme: India’s way to develop: Connecting to dots)
- Convergence 2012 (Theme: India’s route to success: Transforming potential into performance)
- Convergence 2011 (Theme: Exploring contemporary vistas: Road ahead to success)

**26. Student profile programme/course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
Bsc(H) Comp.Sc. (2011-2012)		36	19	17	95.65% (for the batch 2008-2011)
Bsc(H) Comp.Sc. (2012-2013)		47	33	14	92.31% (for the batch 2009-2012)
B.Tech.Comp.Sc. (2013-2014)		256	192	64	96.15% (for the batch 2010-2013)
BSc(H) Comp. Sc. (2014-2015)		57	40	17	96.77% (for the batch 2011-2014)

\*M = Male \*F = Female

27. **Diversity of Students**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
Bsc(H) Comp.Sc.-2011-2012	83.33	16.67	0
Bsc(H) Comp.Sc.-2012-2013	89.36	10.64	0
Bsc(H) Comp.Sc.-2013-2014	64.75	35.55	0
Bsc(H) Comp.Sc.-2014-2015	80.70	19.30	0

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?:**

The college does not any practice of keeping any data on this aspect.

29. **Student progression:**

Student progression	Against % enrolled

UG to PG	Almost all the students get Admission to PG courses.
PG to M.Phil.	N.A.
PG to Ph.D.	N.A.
Ph.D. to Post-Doctoral	N.A.
<b>Employed</b> • Campus selection • Other than campus recruitment	Students prefer to take admission in PG courses
Entrepreneurship/Self-employment	No such data is recorded

**30. Details of Infrastructural facilities:**

- a) Library- Enriched library having books and journals on varied areas of technology. Library subscribes to number of e-journals as well
- b) Internet facilities for Staff & Students-The campus is Wi-Fi enabled and a free access is provided to the students and staff.
- c) Class rooms with ICT facility-All the class rooms are equipped with LCD projectors
- d) Laboratories- There are 5 laboratories providing ample computing facilities both on Linux and Windows platform. These facilities are shared by all the students across both the department.

Complete infrastructural details are given in 4.1.2 of Criteria IV of the SSR

**31. Number of students receiving financial assistance from college, university, Government or other agencies:**

Year	2010-11	2011-12	2012-13	2013-14
No. of Students availing KPMG Scholarship	1	26	36	44
Amount of KPMG Scholarship	10350	400000	457540	400000
No. of Students availing Financial Assistance from Delhi Govt.	6	4	10	**
Amount of Financial Assistance from Delhi Govt.	96205	33720	101800	**
No. of Students availing freeship	Nil	3	2	1

The above mentioned details include the students of both the departments.

\*\* College is now only forwarding the applications for the financial assistance received from the students to the Govt. Of Delhi and the students are directly

receiving the assistance from the govt. Therefore college has no records for the same.

**32. Details on student enrichment programmes special lectures/workshops/seminar) with external experts:**

To keep pace with the changing technology department takes initiative in organizing conferences, workshops and training programs for the students.

Details are given in point 25 of the report

**33. Teaching methods adopted to improve student learning:**

- Teaching pedagogy is interactive through case studies, inviting speakers from industry and conducting workshops on contemporary and relevant areas of technology.
- Motivating students to undertake projects so that they have hands on training and experience in the desired area of their interest.
- Encouraging students to use e- journals and other e-resources.
- Encouraging students to give presentations in the class so to inculcate communication and presentation skills in them.
- Knowledge research cell of the college promotes students to initiate research activities

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities:**

College has a rich culture of laying emphasis on the holistic development of the students. Department encourages students to participate in activities of various societies in the college which are working for the marginalized section of the society. College has a social service forum, Kartavya, which organizes various social activities like Blood Donation camps, collection drives, awareness camps about social issues etc. Apart from this, Enactus SSCBS is the social entrepreneurial cell of the college. With a team of many students from both the departments, Enactus SSCBS is currently involved in 3 social outreach models namely, Sanitation Solutions, Project Akshar & Gramoddhar. In September 2013, college also started National Service Scheme (NSS) chapter of University of Delhi.

Details of the various social projects and activities that students have undertaken is given in 3.6.1 of Criteria III

**35. SWOC analysis of the department and Future plans  
Strength**

- **FACULTY & TECHNICAL STAFF**

- i. Experienced, dedicated, hardworking faculty members having passion for learning and teaching. Almost 60% of the faculty members are Ph.D. and others are working towards it. Most of the faculty members have been associated with the industry and their enriched experience bridges the gap between theory and practice.
- ii. Rich experience of the faculty members is also valued at the University level as the Parent Computer SC. department invites active participation of the college faculty in the revision of the syllabus. Most of faculties have been members of the syllabus revision committee and the courses of committee.
- iii. College promotes learning environment, thus encouraging the faculty and staff to take initiative in keeping pace with the changing technology and enhancing their skills by attending conferences, workshops and training programs and also organizing the same for the students.

- **COMPUTING FACILITIES**

Ample of computing facilities on both windows and Linux platform provides good hands on experience to the students.

- **STUDENTS**

- iv. Academic rigor results in excellent academic performance of the students which ensures their admission to post graduate courses based on academic merit as well as competitive exams.
- v. The students are nurtured to face the cutting edge competition with others which enables them to far better in coping up with the challenges of the world.

- **ENTERPRENURIAL CULTURE**

- i. The inter-departmental interaction between the management and Computer Sc. students inculcates the entrepreneurial spirits in them. Under the guidance of the faculty students have taken initiatives in developing mobile applications for the industry and have undertaken various in house projects facilitating the college administrative process. Students take initiatives in organizing new events in the IT festival

- **CULTURE OF INNOVATION**

Students are motivated to undertake inter departmental innovation projects along with the faculty enabling them to have hands on experience in implementing new ideas.

- **HOLISTIC DEVELOPMENT**

- i. The college has a rich culture of laying emphasis on holistic development of the students. Thus every faculty heads at least one

society of the students and work towards imparting life skills to students in addition to their class room learning.

- ii. Faculty members are available to the students to address professional as well as their personal problems through the counseling sessions.

### **Weakness**

- Due to infrastructural constraints, the department is able to provide limited laboratory facilities beyond the curriculum requirement, as a result of which department feels restricted in holding workshops and training programs frequently.
- The absence of Auditorium, Hostels and Staff quarters also limits the full utilization of the facilities. Because of this we are also restricted to have any international / industrial collaboration and giving students a global experience.
- Small size of the department restricts the interaction of the students to a smaller peer group and also restricts the faculty in focusing on their area of specialization.

However we look forward to take care of these issues in the near future as the college will be shifting to its new building soon.

### **Opportunities**

- Indian Economy is evolving and progressing at faster pace which provides a tremendous opportunities to this college for national and international collaborations with other institutes and universities
- Starting of new courses in collaboration with industry to cater the emerging industry requirements, more thrust on entrepreneurial culture among students and establishment of INCUBATION center, etc.

### **Challenges**

- Technology has revolutionized the world. Ocean of Information is available and thus it is a challenge for the teachers to transform information into Knowledge and further carry that knowledge to the level of Application. They must learn to connect the theory with practice and evolve with revolution of technology.
- The greatest challenge is to keep pace with the changing aspirations of the students by inculcating entrepreneurial skills in them and encouraging their interaction with eminent speakers from academia and industry by conducting workshops, training programs etc. in the contemporary areas of technology.

- To groom the students in a manner that they have cutting edge over the other students of the same course across the other colleges in the university.
- As the course curriculum lays greater emphasis on technical skills, developing human skills beyond curriculum is a challenge to overcome.
- In addition to this, another challenge is to maintain the ethics and moral value system among the students. This is possible only through the collective effort and holistic approach of teaching learning process. The challenge is to ensure that the students are trained to be successful professionals as well as responsible citizens.

#### **Future Plans**

- As the improved infrastructural facilities will be available the department plans to start course in collaboration with the industry/foreign universities.
- The department plans to conduct more often workshops giving hands on experience to the students.
- To increase departmental strength in terms of increasing number of students and faculty.
- The long term plan is to make this college as a center of excellence through high end learning, innovative and research oriented activities in the field of technology along with high moral value and ethos.

**ANNEXURE – 1A**  
**(Research Papers of Department of Management Studies)**

**Research Paper/Article per Faculty**

Total of all faculty = 142

**Mr. Abhimanyu Verma**

**Number: 06**

- Verma Abhimanyu, “Customer Relationship Management - A viable strategy for global success”. Asia Pacific Journal of Marketing & Management Review, ISSN 2319-2836, Vol. 2 (9), September (2013)
- Verma Abhimanyu, “Corporate Social Responsibility with Value Based Management”. National Seminar on Business Design for Inclusive Growth and Sustainable Development with Special Reference to India, ISBN 978-81-926888-1-7 /ISSN Journal (ISSN 2250-365X), 2013
- Verma Abhimanyu, “The Big Human Resource Strategy”. International Journal of Management Sciences and Business Research, ISSN 2226-8235, Vol.2, Issue-12, 2013
- Tanwar Ritika, Verma Abhimanyu, “Corporate Social Responsibility: The Next Level”. International Journal of Management Sciences and Business Research, ISSN 2226-8235, Vol.3, Issue-1, 2013
- Tanwar Ritika, Verma Abhimanyu, “Green Marketing: The Revolutionary Road”. International Journal of Business and Management Invention, ISSN (Online): 2319 – 8028, ISSN (Print): 2319 – 801X [www.ijbmi.org](http://www.ijbmi.org), Vol.3, Issue-2, pg.01-06, February 2014
- Verma Abhimanyu, “The Changing scenario of CSR in India”. International Journal of Management, Sociology and Humanities, ISSN 2277- 9809, Vol.5, Issue-3, 2014

**Dr. Abhishek Tandon**

**Number: 15**

List of Papers Published in International Journals

- Kapur P.K., Garg R.B., Aggarwal Anu G, Tandon Abhishek, “General Framework for Change Point Problem in Software Reliability and Related Release Time Problem”. International Journal of Quality, Reliability and Safety Engineering, USA, Print ISSN: 0218-5393, Online ISSN: 1793-6446, Vol.16, No.6, pg.567-579, December 2009
- Kapur P.K., Aggarwal Anu G, Tandon Abhishek, “Two Dimensional Software Reliability Growth Model with Faults of Different Severity”. Communications in Dependability and Quality Management An

International Journal, ISSN 1450-7196, JBR Impact Factor 5 : 0.152, Vol.13, Number 13, pg.86-97, September 2010

- Kapur P.K., Garg R.B., Chanda Udayan, Tandon Abhishek, “Development of Software Reliability Growth Model Incorporating Enhancement of Features and Related Release Policy”. International Journal of System Assurance engineering and management, ISSN:0975-6809(print version), ISSN: 0976-4348 (electronic version), Vol.1, [Issue-1](#), pg.52-58, March 2010
- Kapur P.K., Aggarwal Anu G, Tandon Abhishek, “A Unified Approach for Developing Two Dimensional Software Reliability Model”. International Journal of Operational Research, ISSN online: 1745-7653, ISSN Print: 1745-7645, Vol.13, No.3, pg.318–337, March 2012
- Singh VB, Kapur P.K., Tandon Abhishek, “Measuring Reliability Growth of Software by Considering Fault Dependency, Debugging Time Lag Functions and Irregular Fluctuation”. ACM Sigsoft Software Engineering Notes, ISSN:0163-5948, Vol.35, No.3 , pg.1-11, May 2010
- Kapur P.K., Tandon Abhishek, Kumar Ravi, “Unified framework for discrete software reliability growth modeling with change point and a related release time problem”. Communications in Dependability and Quality Management An International Journal, ISSN 1450-7196, JBR Impact Factor 5 : 0.152, pg. 98-110, Vol.13, Number 13, September 2010

#### List of Papers Published in Proceedings of International & National Conferences

- Singh V.B., Kapur P.K., Tandon Abhishek, “Measuring Reliability Growth of Open Source Software by Applying Stochastic Differential Equations”. Published in the IEEE proceedings of 2nd World Congress on Software Engineering, China, ISBN: 978-0-7695-4303-1, pg.114-118, December 2010
- Kapur P.K., Tandon Abhishek, Kaur Gurjeet, “Multi Upgradation Software reliability Model”. Published in the IEEE proceedings of 2nd International Conference on Reliability, Safety and Hazard, ISBN :9781424483440, pg.468-474, IEEE, December 2010
- Kapur P.K., Chanda Udayan, Tandon Abhishek, Anand Sameer, “Innovation Diffusion of Successive Generations of High Technology Product”. Published in the IEEE proceedings of 2nd International Conference on Reliability, Safety and Hazard, ISSN: 9781424483440, pg. 505-510, IEEE, December 2010
- Kapur P.K., Yadav Kalpana, Tandon Abhishek, Basirzadeh Mashaallah, “Embedding Testing-effort in Fault-Dependency based Software Reliability Growth Model using Stochastic Differential Equation”. Published in the proceedings of 4th International Conference on Quality,

Reliability and Infocom Technology, ISBN : 9788184871722, pg.360-373, 2012

- Kapur P.K., Singh Ompal, Tandon Abhishek, “Bicriterion Release Policy for a Software Reliability Growth Model Incorporating the effect of Change Point”. Published in the proceedings of International conference on reliability, Infocom technology and optimization, ISBN : 9788190973229, pg.214-225, 2010
- Kapur P.K., Garg R.B., Aggarwal Anu G, Tandon Abhishek, “Two Dimensional flexible Software Reliability Growth Model and Release Policy”. Published in the proceedings 4th National Conference on Computing for Nation Development-INDIA Com, ISSN 0973-7529, pg. 431-438, Feb 2010
- Kapur P.K., Chanda Udayan, Tandon Abhishek, “Software Release Policy based on Change Point Considering Risk Cost”. Advances in Information Theory and Operations Research, ISBN-10: 3639259963 | ISBN-13: 978-3639259964, Om Parkash (Ed.), pg.111-122, 2010
- Kapur P.K., Aggarwal Anu G, Tandon Abhishek, “Innovation Diffusion Model for Successive Generation Merchandise considering the effect of Consumer balking”. Published in the proceedings of International Congress on Productivity, Quality, Reliability, Optimization and Modeling, ISBN : 9788184247084, Vol.1: Theoretical Papers, pg. 150-159, February 2010
- Kapur P.K., Aggarwal Anu G, Tandon Abhishek, “Two Dimensional Flexible Software Reliability Growth Model with Two Types of Imperfect Debugging”. Proceedings of the 5th National Conference;.INDIACom-2011 Computing For Nation Development, ISSN 0973-7529 ISBN 978-93-80544-00-7, March 2011

**Mr. Amit Kumar**

**Number: 03**

- Amit K., “Relationship between FDI Inflows and Economic Growth: A Study of Select Asian Countries”. National Journal, Uttaranchal Business Review, ISSN: 2277-1816, UIM, Vol. 3(2), Pg.11-32, 2013
- Rani A., Lama S. and Kumar A., “An Analysis of the Performance Evaluation of Banks in the Indian Context” National Journal, Vedaang, ISSN: 09757961, SGRRITS, Vol. 5(1), Pg.1-6, 2014
- Kumar L. and Kumar A., “Debt Financing and Personal Tax: An Empirical Study of Indian Inc”. International Journal, Asian Journal of Research in Business Economics and Management, ISSN: 2249-7307, Asian Research Consortium, Vol. 4(5), Pg.72-85, 2014

**Dr. Amrina Kausar**

**Number: 09**

- Jaggi Chandra K, Amrina Kausar and Mona Verma, “Retailer’s Optimal Credit and Replenishment Policy for deteriorating items using a Flexible Credit Demand”. International Journal, Manav Rachna International Journal(MRIJ), ISSN-0975-4997, Vol. 3, No. 2, pg. 1-9, 2011
- Jaggi Chandra K and Amrina Kausar, “Retailer’s ordering policy in a supply chain when demand is price and credit period dependent”. International Journal, International Journal of Strategic Decision Sciences (IJSDS), ISSN- 1947-8569, Vol. 2, No. 4, pg. 61-74, 2011
- Jaggi Chandra K, Mona Verma, Amrina Kausar, “Customer Based Two Stage Credit Policies In a Supply Chain”. International Journal, International Journal of Logistics & Transportation Research (IJLTR), ISSN- 2165-817X, Vol.1, No.2, pg.1-12, 2011
- Jaggi Chandra K and Amrina Kausar, “Retailer’s Optimal Credit and Replenishment Policy for deteriorating items with Credit Linked Demand In a Supply Chain”, International Journal, International Journal of Applied Decision Science (IJADS), ISSN- 1755-8077, Vol. 3, No. 2, pg. 117-131, 2010
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**Dr. Mona Verma**

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**Mr. Neeraj Kumar Sehrawat**

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**Dr. Neetu Yadav**

**Number: 12**

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**Dr. Nidhi Kesari**

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**Ms. Saumya Jain**

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**Dr. Sushmita**

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**Mr. Tushar Marwaha**

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**ANNEXURE – 1B**  
**(Research Papers of Department of Computer Science)**

**Research Paper/Article per Faculty**

Total of all faculty = 46

**Dr. Ajay Jaiswal**

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