



ANNUAL QUALITY ASSURANCE REPORT

(AQAR) 2017 - 18

Shaheed Rajguru College of Applied Sciences for Women

University of Delhi

Vasundhara Enclave

Delhi – 110096

www.rajgurucollege.com

AQAR 2017-18

The Annual Quality Assurance Report (AQAR) of the IQAC

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Part – A

1. Details of the Institution

1.1 Name of the Institution	Shaheed Rajguru College of Applied Sciences for Women
1.2 Address Line 1	Vasundhara Enclave
Address Line 2	East Delhi
City/Town	Delhi
State	Delhi
Pin Code	110096
Institution e-mail address	principal@rajguru.du.ac.in
Contact Nos.	011 – 22623503, 22623504
Name of the Head of the Institution	Dr. Payal Mago
Tel. No. with STD Code	011 – 22623503, 22623504
Mobile	8800672660
Name of the IQAC Co-ordinator	Ms. Venika Gupta
Mobile	9953469945
IQAC e-mail address	iqac@rajguru.du.ac.in
1.3 NAAC Track ID (For ex. MHC0GN 18879)	DLC0GN21990
1.4 NAAC Executive Committee No. & Date (For Example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)	EC (SC)/10/A&A/56.1 dated 15 th November 2015
1.5 Website address	www.rajgurucollege.com
Web-link of the AQAR	http://www.rajgurucollege.com/AQAR-Reports

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

S.No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.11	2015	5 years
2	2 nd Cycle	NA			
3	3 rd Cycle	NA			
4	4 th Cycle	NA			

1.7 Date of Establishment of IQAC: DD/MM/YYYY

1.8 AQAR for the year (for example 2010-11)

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011))

- i. AQAR 15-16 submitted to NAAC on 23.12.2016.
- ii. AQAR 16-17 submitted to NAAC on 22.12.2017.
- iii. AQAR NA
- iv. AQAR NA

1.10 Institutional Status

University	State	<input type="checkbox"/>	Central	<input checked="" type="checkbox"/>	Deemed	<input type="checkbox"/>	Private	<input type="checkbox"/>
Affiliated College	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>				
Constituent College	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>				
Autonomous college of UGC	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>				
Regulatory Agency approved Institution (eg. AICTE, BCI, MCI, PCI, NCI)	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>				
Type of Institution	Co-education	<input type="checkbox"/>	Men	<input type="checkbox"/>	Women	<input checked="" type="checkbox"/>		
	Urban	<input checked="" type="checkbox"/>	Rural	<input type="checkbox"/>	Tribal	<input type="checkbox"/>		
Financial Status	Grant-in-aid	<input checked="" type="checkbox"/>	UGC 2(f)	<input checked="" type="checkbox"/>	UGC 12B	<input checked="" type="checkbox"/>		
	Grant-in-aid + Self Financing	<input type="checkbox"/>	Totally Self-financing	<input type="checkbox"/>				

1.11 Type of Faculty/Programme

Arts	<input checked="" type="checkbox"/>	Science	<input checked="" type="checkbox"/>	Commerce	<input checked="" type="checkbox"/>	Law	<input type="checkbox"/>	PEI (Phys Edu)	<input type="checkbox"/>
TEI (Edu)	<input type="checkbox"/>	Engineering	<input type="checkbox"/>	Health Science	<input type="checkbox"/>	Management	<input type="checkbox"/>		
Others (Specify)	<input type="text"/>								

1.12 Name of the Affiliating University (for the Colleges)

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc.

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme	<input type="text" value="--"/>	UGC-CE	<input type="text" value="--"/>
UGC-Special Assistance Programme	<input type="text" value="--"/>	DST-FIST	<input type="text" value="--"/>
UGC-Innovative PG programmes	<input type="text" value="--"/>	Any other	<input type="text" value="DBT Star Scheme"/>
UGC-COP Programmes	<input type="text" value="--"/>		

2. IQAC Composition and Activities

- 2.1 No. of Teachers
- 2.2 No. of Administrative/Technical staff
- 2.3 No. of students
- 2.4 No. of Management representative
- 2.5 No. of Alumni
- 2.6 No. of any other stakeholder and community representatives
- 2.7 No. of Employers/ Industrialists
- 2.8 No. of other External Experts
- 2.9 Total No. of members
- 2.10 No. of IQAC meetings held
- 2.11 No. of meetings with various stakeholders: Students Faculty
 Non-Teaching Staff Alumni Others
- 2.12 Has IQAC received any funding from UGC during the year? Yes No
- If yes, mention the amount
- 2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total No. International National State Institution Level

(ii) Themes

- "Better Than Normal"- A Motivational Talk.
- Enhancing Interpersonal Relationships.
- Skill Enhancement Workshop.
- Budding Entrepreneurs.
- A Session on Suicide Prevention Awareness.
- Mental Health Awareness Week.
- Failure is the best thing that can happen to you.
- Stress Management.
- Communication Skills for career excellence.
- Exploring Career Opportunities.
- Musicology: Music Therapy Workshop.
- Cyber Security.
- Workshop on Virtual Instrumentation in LABVIEW and IoT with Raspberry Pi.
- Workshop on Drug Discovery Technology- Computational Approaches in Drug Discovery and Design.
- Cervical Cancer Awareness.
- Hands-on workshop on python 3.

2.14 Significant Activities and contributions made by IQAC

- Improvements in existing activities.
 - Dedicated e-mail ids for committees to encourage paperless work.
 - POS machines were installed for cashless money transfer.
 - Guidelines for attendance management, student activities, feedback from employees, students, alumni and parents.
 - Voluntary Student mentors help out the students who have problem coping up with the curriculum as well in classes. To improve the teaching standards regular feedbacks are taken from students.
- On line mechanism for feedback.
- Concrete efforts to manage Alumni database.
- Organized various workshops and activities to enhance quality and maintain records.
- The college attained NIRF ranking of 53 in the colleges' category.
- Grant of Technology based incubator "awarded to institute by MSME. This helps students to scale up their ideas to a business plan module. Entrepreneur cell has been established
- The College has become part of Erasmus project No-2017-1-CZ01-K107-034877 (Key Activity 1) along with the Silesian University, Faculty of Philosophy and Science in Opava, Czech Republic. The partner institute agreed to cooperate for the exchange of students and/or staff in the context of the Erasmus+ programme. This agreement is signed for 2 academic years, that is 2017/2018 and 2018/2019.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

- **Start new courses**
The college has introduced six new undergraduate courses in this academic year, namely: B.Sc (H) Biochemistry, B.Sc (H) Microbiology, B.Sc (H) Statistics, B.A(H) Psychology, BMS (Bachelor in Management Studies) and BBA in Financial Studies. Also a foreign language course in German was introduced.
- **E-planning & management**
Dedicated e-mail ids for committees to encourage paperless work. POS machines were installed for cashless money transfer.
- **Google form for Alumni data, date/activity calendar**
Has been successfully integrated with data collection.
- **Website up gradation**
The college website has been redesigned, is regularly up-dated and is now dynamic.
- **Up gradation of College directory**
The data of all employees has been collected and verified
- **Survey and enhancement of facilities for employees, alumni and students**
In accordance to the feedback and survey, appropriate modifications.
- **E-Newsletter**
Newsletter was printed, and is available on the college website
- **Enhance & create environment for research**
The research in the college is gathering pace. Eleven faculty members are registered for Ph.D. Six faculty members are Ph.D. guides.
Establishment of Cell Culture Facility in the Department of Biomedical Sciences
- **Parent-Teacher interaction**
Annual day and orientation days are also parent-faculty interaction days. The proctorial committee interacted with parents to update them on the status of attendance of their ward.
- **Academic Audit**
Protocol has been designed.
- **Security Audit**
This has been extensively surveyed.
- **Protocols for Gender Audit**
In process
- **Fire drill**
In process
- **Short term courses for Career counselling.**
Career counseling sessions, interaction with alumni and motivational talks were regularly conducted.
- **Organize Orientation/workshop Program for non-teaching technical staff**
Successively organized
- **Encouraging students to go for start-ups and become entrepreneurs**
Entrepreneurship Development Cell has been established for this purpose.
- **Plan to conduct Workshops/ Seminars/Industry visits/Conference, Organize Faculty Development Program at national level**
successively organized.

* Annexure I (A-Academic Calendar; B-Activity Calendar)

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body **Governing Body**

Provide the details of the action taken

The AQAR 2017-18 was placed in the Governing Body meeting and was approved.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	-	-	-	-
PG	-	-	-	-
UG	8	6*	-	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	--	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	8	6	-	-

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

* Six New undergraduate courses were introduced in 2017-18

S.No	Undergraduate Courses introduced in 2017-18.
1	B.Sc.(H) Biochemistry
2	B.Sc.(H) Microbiology
3	B.Sc.(H) Statistics
4	B.A.(H) Psychology
5	Bachelor of Management Studies (BMS)
6	Bachelor of Business Administration (Financial Investment Analysis) (BBA-FIA)

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options- **CBCS**
(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	14
Trimester	nil
Annual	nil

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

Annexure II (Feedback)

***Please provide an analysis of the feedback in the Annexure**

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

The revision/update of syllabi is carried out at the university level.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

In the academic year 2017-18 six new courses were introduced giving rise to creation of four new departments. The supporting department of **Biochemistry** turning into a full- fledged department. The new departments introduced during the year are **Microbiology, Statistics, Psychology, Management and Financial Studies**

The vision of the **biochemistry department** is to achieve recognition as a department of excellence; offering high quality education, inculcating scientific aptitude in the students and inspiring students for research in life sciences. The department works towards continually improving the education for undergraduates in order to prepare new generations of scientists who can take on any challenge in variety of fields. The department aims at enhancing service to the community and the university by providing appropriate expertise.

The **Department of Psychology** encourages students to develop a holistic approach and to explore research interests beyond class room teaching. It has two well equipped labs at present: Analytical lab and Research lab. The labs are fully equipped with the latest materials that enable the students to conduct new and innovative experiments and tests in the field of Psychology. Overall, the department trains the students to become competent and motivated psychologists.

The **Department of Management and Financial Studies** was envisaged with a vision to be a pioneer in nurturing next generation leaders and change agents, strongly rooted in eternal values, fostering excellence in all the fields of society. The department is committed to fulfilling the mission of contributing towards excellence in leadership and management education to ensure its relevance to the needs of society and people

around; nurturing young and dynamic leaders, entrepreneurs and policy makers of tomorrow who can solve complex organizational and managerial problems through providing an environment of collaborative and multidisciplinary activities and establishing as a centre of excellence in upcoming areas of management and finance by innovative and research activities among faculty and students. The department offers two undergraduate courses under the CBCS scheme– Bachelor of Management Studies (BMS) and Bachelor of Business Administration (Financial Investment Analysis) [BBA (FIA)]. BBA (FIA) is an exclusive course designed to specialize in Finance. BMS, on the other hand, offers specialization in Finance, Marketing, Human Resource and Management of Global Business. Although being a new department, it boasts of excellent infrastructure equipped with projectors, wi-fi facility, well-equipped library etc. and efficient teaching methodology like case studies, presentations, role play etc.

Microorganisms have an immense impact on our day to day lives, be it maintenance of the environment and serving as important industrial tools or as causative agents of several human, animal and plant diseases as well as food spoilage. The vision of the **microbiology department** is to educate and train students in the applied discipline of microbiology and to expand the body of knowledge of this scientific field through research. The department has three well- equipped laboratories as well as media preparation room, instrumentation room, inoculation room and culture room. The labs are well equipped with various instruments like shaker incubator, laminar flow cabinet, incubator, spectrophotometer, centrifuge, digital pH meter, electronic weighing balances, colony counter, tissue culture racks etc. Among the many reasons to study microbiology is to gain basic knowledge of the field needed to pursue careers in medical science, ecology, agriculture, pharmaceutical sciences and diagnostics, aquatic microbiology and biotechnology.

Data analysis is a process of inspecting, transforming and modelling a given data to draw useful information out of it. **Department of Statistics** aims to train its students with the vision of filling the gap between academia and data analytics industry. The department at present is sharing its labs with the department of Mathematics which are equipped with high speed computers and broad band internet. The students get a practical knowledge by working with real life data on software’s like R, Mathics and SPSS.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	21	11	10	-	-

2.2 No. of permanent faculty with Ph.D.

17

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
-	63	-	-	-	-	-	-	-	63

2.4 No. of Guest and Visiting faculty and Temporary faculty

Guest-13	-	Ad-hoc -39
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	6	13	2
Presented papers	12	3	
Resource Persons			

*Annexure III

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- **Innovative Class room teaching methods:** Possible uses of classroom including video presentation, management games, group discussion's, case studies were taken up so as to enhance the overall learning experience for students.
- Hands-on-training on various sophisticated analytical, biomedical and electronic instruments given to the students.
- Interactive sessions and workshops are organized regularly to inculcate practical understanding of the subject.
- Students were asked to prepare quiz and real time questions to be discussed in class to improve peer learning environment.
- Faculties share study materials from the rare resources with the students so that there would not be any limitation to their knowledge domain.
- The concept of 'Each one Teach one' has been promulgated amongst the students to help their fellow classmates. It has resulted in an overall improvement of results of weak students.
- In-house projects conducted for undergraduate students during summer vacations. Industrial training during summer/winter break to get hands on experience in industry.
- **Guest Lectures:** Interactive and innovative guest lectures were regularly taking place. People of repute from academia and industry were invited. This gave students a real time learning experience and helped them enhance their knowledge.
- Organizing brainstorming sessions to guide students regarding their career.

- Development of Novel food products as part of curriculum and also through the Entrepreneurship development cell of college.
- Active participation of students and staff in government initiatives like ‘Khadya Suraksha Abhiyan’ by CII-FACE.
- Formation of Departmental council of students to enhance their managerial skills.
- Students were also asked to organize various events. This helped in inculcating a spirit of team work and management within the students and helped them grow as individuals.
- Students participated in summer internship research programmes.
- Students are motivated to collect real life data by framing questionnaires. Analysis of this data is done in the lab classes so that the students are able to relate theoretical concepts with real life situations.

All the above activities helped the students to develop in a holistic way.

2.7 Total No. of actual teaching days during this academic year

180 days

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- Internal assessment is based on several aspects like presentation, seminars, quizzes, projects, assignments, open book tests, MCQs, group discussions etc.
- End semester exams are conducted as per University norms

2.9 No. of faculty members involved in curriculum Re-structuring/ revision/ syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

16		
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2.10 Average percentage of attendance of students

70.2%

2.11 Course/Programme wise distribution of pass percentage:

Undergraduate First Year (2017 – 18)

Title of the Programme	Total no. of students appeared	CGPA							Pass %
		Less than 4 (Fail)	4-5 (Pass)	5-6 (Average)	6-7 (Above Average)	7-8 (Good)	8-9 (Very Good)	9-10 (Excellent)	
B.Sc (H) Biomedical science	33	0	0	2	1	11	15	4	100
Bachelor of Business Administration (FIA)	46	1	1	9	13	11	8	3	97.83
B.Sc (H) Biochemistry	41	0	2	6	6	12	6	9	100
B.Sc (H) Computer science	51	1	2	3	13	7	20	5	98.03
B.Sc (H) Chemistry	41	0	01	02	04	11	18	05	100
B.Sc (H) Electronics	36	0	2	0	16	12	6	0	100
B.Sc (H) Food Technology	38	0	1	2	2	14	17	2	100
B.Sc (H) Instrumentation	37	0	01	02	03	12	15	04	100
B.Sc (H) Mathematics	48	02	01	02	03	13	19	08	95.8
B.Sc (H) Microbiology	32	0	1	3	5	12	10	1	100
Bachelor of Management Studies	44	1	4	4	14	14	6	1	97.73
B.Sc(H) Physics	44	0	5	3	15	8	10	3	97.72
B.A(H) Psychology	57	1	1	7	29	16	3	0	98.24
B.Sc (H) Statistics	47	0	0	2	5	17	18	5	100
Total	595	6	22	47	129	170	171	50	(589) 99%

Undergraduate Second Year (2017 – 18)

Title of the Programme	Total no. of students appeared	CGPA							Pass %
		Less than 4 (Fail)	4-5 (Pass)	5-6 (Average)	6-7 (Above Average)	7-8 (Good)	8-9 (Very Good)	9-10 (Excellent)	
B.Sc (H) Biomedical science	23	0	0	0	3	10	9	1	100
B.Sc (H) Computer science	39	2	5	2	3	12	10	5	94.87
B.Sc (H) Chemistry	30	0	3	0	3	13	10	1	93.3
B.Sc (H) Electronics	44	4	3	4	7	19	6	1	90.91
B.Sc (H) Food Technology	32	0	1	0	4	9	15	3	100
B.Sc (H) Instrumentation	25	0	0	04	04	06	05	06	100
B.Sc (H) Mathematics	51	01	02	08	11	14	07	08	98
B.Sc(H) Physics	42	0	4	1	15	10	8	4	92.85
Total	286	7	18	19	50	93	70	29	(279) 94.6%

Undergraduate Third Year (2017 – 18)

Title of the Programme	Total no. of students appeared	CGPA							Pass %
		Less than 4 (Fail)	4-5 (Pass)	5-6 (Average)	6-7 (Above Average)	7-8 (Good)	8-9 (Very Good)	9-10 Excellent	
B.Sc (H) Biomedical science	37	0	0	0	4	17	15	1	100
B.Sc (H) Computer science	68	0	0	1	8	17	36	6	100
B.Sc (H) Electronics	36	2	1	3	8	10	10	2	94.44
B.Sc (H) Food Technology	34	1	1	4	2	6	12	8	97.05
B.Sc (H) Instrumentation	34	0	0	03	10	09	11	01	100
Total	209	3	2	11	32	59	84	18	(206) 98.6%

B.Sc. (H) Final Year (Overall CGPA) 2015-2018

Title of the Programme	Total no. of students appeared	CGPA							Pass %
		Less than 4 (Fail)	4-5 (Pass)	5-6 (Average)	6-7 (Above Average)	7-8 (Good)	8-9 (very good)	9-10 Excellent	
B.Sc (H) Biomedical science	37	0	0	0	4	17	15	1	100
B.Sc (H) Computer science	68	0	0	2	8	30	25	2	98.50
B.Sc (H) Electronics	36	0	0	3	8	15	5	1	88.88
B.Sc (H) Food Technology	34	1	1	4	2	8	12	6	97.05
B.Sc (H) Instrumentation	34	0	0	06	08	09	10	01	100
Total	209	1	1	15	30	79	67	11	(204) 97.6%

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	-
UGC – Faculty Improvement Programme	7
HRD Programmes	-
Orientation Programmes	-
Faculty exchange Programme	-
Staff training conducted by the university	-
Staff training conducted by other institutions	-
Summer / Winter schools, Workshops, etc.	28
Others	19

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	23	06	-	-
Technical Staff	23	28	-	-

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number		2		
Outlay in Rs. Lakhs		51.999 lacs		

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	--	--
Outlay in Rs. Lakhs	--	--	--	--

3.4 Details on research publications

	International	National	Others
Peer Review Journals	31	1	--
Non-Peer Review Journals	--	--	--
e-Journals	--	--	--
Conference proceedings	5	9	--

*Annexure IV

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned	Received
Major projects	3 years	DST	23.3 lacs	2.79282 lacs
	3 years	DST-SERB	28.699 lacs	14.97996 lacs
Minor Projects	--	--	--	--
Interdisciplinary Projects	--	--	--	--

Industry sponsored	--	--	--	--
Projects sponsored by the University/ College	--	--	--	--
Students research projects (other than compulsory by the University)	--	--	--	--
Any other(Specify)	3	DBT	21 lacs	--
Total				17.77278

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

*Annexure IV D

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP	<input type="text" value="-"/>	CAS	<input type="text" value="-"/>	DST-FIST	<input type="text" value="-"/>
DPE	<input type="text" value="-"/>			DBT Scheme/funds	<input type="text" value="-"/>

3.9 For colleges

Autonomy	<input type="text" value="0"/>	CPE	<input type="text" value="0"/>	DBT Star Scheme	<input type="text" value="3"/>
INSPIRE	<input type="text" value="0"/>	CE	<input type="text" value="0"/>	Any Other (specify)	<input type="text" value="0"/>

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	-	-	-	-	-
Sponsoring agencies					

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International National Any other –
*Annexure V (Collaboration)

3.14 No. of linkages created during this year
*Annexure VI (Linkages)

3.15 Total budget for research for current year in lakhs :

From funding agency	<input type="text" value="17.77278"/>	From Management of University/College	<input type="text" value="--"/>
Total	<input type="text" value="17.77278"/>		

3.16 No. of patents received this year

* Annexure IV D

Type of Patent		Number
National	Applied	0
	Granted	1*
International	Applied	0
	Granted	0
Commercialised	Applied	0
	Granted	0

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
2	-	1	1	-	-	-

* Annexure IV E

3.18 No. of faculty from the Institution

who are Ph. D. Guides

6

and students registered under them

8

*Annexure IV F

3.19 No. of Ph.D. awarded by faculty from the Institution

0

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF

0

SRF

1

Project Fellows

0

Any other

2

3.21 No. of students Participated in NSS events:

University level

08

State level

01

National level

01

International level

-

3.22 No. of students participated in NCC events: NA

University level

-

State level

-

National level

-

International level

-

3.23 No. of Awards won in NSS: NA

University level

-

State level

-

National level

-

International level

-

3.24 No. of Awards won in NCC: NA

University level State level
 National level International level

3.25 No. of Extension activities organized

University forum College forum
 NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Annexure VII (Major Activities)

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus Area	35000 Sqm			35000 Sqm
Class Rooms	17			17
Laboratories	38			38
Seminar Halls	03			03
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	3			3
Value of the equipment purchased during the year	9,19,70,962.93	114423		92,08,5385.93
Others	Nil			

4.2 Computerization of administration and library

The college library is automated with RFID (Radio Frequency Identification system) technology, which is being used for library housekeeping operation. This system move combines security with more efficient tracking of books throughout the library, including easier and faster charge and discharge, inventorying, material handling and automated book drop kiosk being used for easier return of books. The RFID system included self-circulation desk, staff work station, security gate, book drop box, RFID reader, RFID sticker for Book, RFID enabled member card, SMS services in each book transaction.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	16260	15284882	897	683476	17157	15968358
Reference Books	1764	2007042	99	75900	1863	2082942
e-Books	135000	5000	-	5000 (Renewal)	135000	5000
Journals	1	950	-	-	0	950
e-Journals	5000 + 42000	5000	-	-	5000 + 42000	5000
Digital Database	24	-	-	-	24	Via University of Delhi
CD & Video	79	16412	-	-	79	16412
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	586 (Including laptops)	8 Nos.	Internet Facility on campus (Wi-Fi/LAN)	Library : 3	3	Servers – 3 Printers – 6 Laptop – 3	LCD Projector – 15 Printers – 28 Laptop – 16 Server – 5	Library automation software package and RFID enabled. 100 Mbps Internet leased line with 24*7 connectivity to administration, academic and hostel block
Added	0		ILL for providing continuous redundant network connectivity in office.			Server-1		3 Mbps leased line for connectivity in office. Extra access points added to network for providing Wi-Fi connectivity in classrooms
Total	586		Available	3	3			

4.5 Computer, Internet access, training to teachers and students and any other programme for technology Up-gradation (Networking, e-Governance etc.)

- A two day workshop on “Mathematica” aimed at providing hands-on training to the students. Topics of Calculus, Linear Algebra, Differential Equations and Numerical Methods were covered in this workshop.
- A workshop on “Game development using JavaScript” by Coding Blocks.
- One-day workshop on “Python”.

- Talk on “Cyber Crime “by Mr. Rakshit Tandon, Director, Internet and Mobile Association of India.
- Two day Workshop on “Big Data and Hadoop”.
- A four day Hands-on workshop on Virtual Instrumentation with Lab view and IOT using Raspberry pi.
- Orientation program for library facilities and utility for the fresher’s.

4.6 Amount spent on maintenance in lakhs:	
i) ICT	10.36238
ii) Campus Infrastructure and facilities	Maintained by PWD
iii) Equipments	1.14423
iv) Others	1324.17495
Total:	1335.68156

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- College prospectus
- College Website
- Display boards, Signage
- Alumni interaction
- Student feedback
- Student-faculty meetings.
- Discussions, student-faculty societies.
- Classroom announcements.
- Student Union and Student Societies.
- Online admissions and the corresponding information.

5.2 Efforts made by the institution for tracking the progression

- Discussion with the students about the scope of their improvement.
- Encouraging students to interact amongst themselves for enhancing their progress.
- Keeping the track of the students going for higher education, placements etc.
- Frequent Evaluations: Frequent evaluations through class room response, written work, and testing and teacher student interaction were carried out throughout the year. This helped in pinpointing additional areas of improvement for the students
- Observation and Interaction: Individual interaction between teacher and student provides the students with opportunities to evaluate progress and retention. This method provided students to share their doubts and concerns with the teachers.

- Curriculum based Monitoring – This is the age old method which is being used in the departments. Students are evaluated on the basis of the standard examination on a set format. Regular test are also given to students and proper feedback is given to them. This helps in better understanding of concepts
- Continuous assessment of students through test, assignment ,seminars in their subjects
- Students tested periodically in order to identify students needing extra help. Extra help is provided and then tested again to track their improvement
- Progress monitoring is done monthly depending on the subject. The departments have developed a comprehensive systematic and consistent framework for testing students.
- A department Feedback committee has been formed to know if the students have any problem with regard to availability of books or respective teaching.
- Result analysis is done after every semester. This helps in tracking the improvement in the performance of students and also identifying students who need academic assistance. Inter college result comparison is also done using SGPA/CGPA.
- Regular follow up of teaching methodologies and practical taken from students
- Regular interactive session to clarify the concepts of particular group of students
- Regular Assessment: Internal Tests (Objective and Subjective), Assignments in terms of PPT presentation, and descriptive answers based on questions.
- Formation of departmental proctorial committee to regularly assess student's performance, their attendance & discipline.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1123			

(b) No. of students outside the state

654

(c) No. of international students

04

	No	%		No	%
Men	--		Women	1123	100

Last Year 2016-17						This Year 2017-18					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
631	108	19	226	3	987	717	159	23	266	1	1166

Demand ratio NA Dropout % -0.51%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Teaching plan of class also comprises of competitive examination-based questions.
- Focus on the concepts of the topics which make students prepare for competitive examinations.
- Career opportunities are discussed periodically by career counsellor as well as faculties.
- Department of Biomedical Science organized a crash course program for students to help them with

M.Sc. entrance exams.

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET	<input type="text" value="NA"/>	SET/SLET	<input type="text" value="NA"/>	GATE	<input type="text" value="NA"/>	CAT	<input type="text" value="01"/>
IAS/IPS etc	<input type="text" value="0"/>	State PSC	<input type="text" value="NA"/>	UPSC	<input type="text" value="NA"/>	Others	<input type="text" value="95"/>

5.6 Details of student counselling and career guidance

- Workshop on “resume Writing & Interview Skills” by Mr. Herman Siquiera, Head of Corporate Training Department, Inlingua, New Delhi.
- Students are informed about the options of higher studies.
- Workshop on Communication Skills for career excellence
- Guidance on Study Abroad By TIME

No. of students benefitted

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
-	-	-	32

5.8 Details of gender sensitization programmes

- Organized a talk on Cervical Cancer on 29 January 2018 for spreading awareness among students and faculty members of the college.
- To promote the idea of self-empowerment, the NSS Unit and Women Development Cell of College collaborated together to conduct self-defense classes for 50 – 70 students of the college.
- An interactive session with ‘Oxycare’ was organized on 19 February 2018 for promoting the healthcare of women and children.
- Organized an interactive session with Mrs. Swati Malival, Chief of Delhi Commission for women organization. In this session, she talked about women empowerment, sexual harassment against women and her protest for rape victims.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount in rupees
Financial support from institution	130	920531
Financial support from government	2	23980
Financial support from other sources	13	158050
Number of students who received International/ National recognitions	0	0

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

- Antidrug and anti ragging campaign.
- Organised “adopt a plant “ in college
- Organised “Cleanathon”.
- Nukkad Natak on road safety
- Swachta Pakhwara.
- Collection drive for clothes, stationery, shoes etc
- Cleanliness campaign
- Involved in painting on walls of Govt. Schools in Jhunjhunu –Rajasthan, chankyapuri slum area.
- Computer Literacy Programme (Batch 4)
- Digital Empowerment for Homemakers (Batch 2)

- Social initiative ‘Utthan’ has rendered help to underprivileged girls, of which, a few are unable to attend a formal school
- **Leaders for tomorrow Project:** NGO working for welfare of society as cleanliness, Greenery and IYM (teach underprivileged students)
- Literacy drive: About 30 poor students are benefitting from this drive.
- Slum Kids Talent Hunt
- Participated in National Youth Forum on Drug Use Prevention
- Swachh Bharat Summer Internship-Adopted village-Dhallupura
- **Old Age Home/Orphanage Visit’** visited SAI KIRPA ORPHANAGE on weekly basis to interact with the children and old to teach them & Talk with them.
- **Collection of Stationary:** Organized a collection drive in which students donated new stationery items, like pencils, erasers, sharpeners, sketch pens, notebooks, registers, paints, crayons and much more. In the same way drive on “winter clothes collection” and later on distribution was done in Dallupura and Kalyanpuri areas.
- **River Rally** To create awareness in society for saving our dying rivers, a “Rally for Rivers” was organised at India Gate, New Delhi on Sep 3 and Oct 2, 2017.
- **Swachta Hi Sewa** Organized a cleanliness drive in the college and took out a rally for spreading awareness. Cleanliness drive had a great effect on cleanliness of the college environment.
- **Blood donation camp:** The blood donation camp was held on 2nd November, 2017 by the specialist team of AIIMS.
- **Sport’s Day For Underprivileged Students:** Organized a sports festival for the students under literacy drive as overall development is not just about the mind but is the whole body.
- Environment awareness, as the main goal, started **no plastic** campaign by providing ceramic mugs to students as a step towards making the environment plastic free.

5.13 Major grievances of students (if any) redressed: No grievance was received from the students.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision : To establish the college as a seat of high learning for jobs / entrepreneurial oriented education imbining strong ethical values with the aim of inculcation and self reliance in young women and to make them enlightened citizens of tomorrow.

Mission: To build & nurture a new generation of well-rounded professionals who can work as positive change agents in the new millennium. It will be our endeavour to assimilate and disseminate practical

strategies to future professionals and to encourage their understanding of strategic perception to fulfil the mission of the organisation in the fast changing global environment.

6.2 Does the Institution has a management Information System

Yes

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

- The University of Delhi decides on the curriculum of all the courses.
- Faculty members contributed in designing of the new syllabus for B. Sc. (H) (CBCS Mode semester system), University of Delhi.
- The faculty are called to attend curriculum up gradation meetings for their respective papers at the Departments, University of Delhi.
- Forwarded the feedback from students, Alumni and Industry to University Departments for curriculum development.
- Introduced “Entrepreneurship” as a skill enhancement course. Students were encouraged to prepare and present a business plan. One such plan received first prize by the technical team and was send to MSME (Ministry of small and medium Enterprise, Govt. of India) for final approval.

6.3.2 Teaching and Learning

- Constructive interactions between students and faculty which goes beyond the classroom
- A proper teaching plan is followed to ensure effective utilization of time in order to complete the syllabus on time.
- Regular feedback from students to improve teaching and learning methods.
- Assignments given to students from time to time.
- For a holistic development of students Seminars and interactive sessions are held, for which experts are invited.
- Field Trips were organized.
- Learning through conducting surveys.
- Hands on training of tools of research is provided as per the curriculum
- Faculty is involved with the students to develop their research interest.

6.3.3 Examination and Evaluation

- The process for Examination and Evaluation, as set by the University of Delhi, is adhered to by the college strictly.

6.3.4 Research and Development

- Promoting in-house research projects with students by collaborating with industries like Sri Ram Institute for Industrial Research, National Physical Laboratory, Gogia Chemicals Industries Ltd. and Export Inspection Council of India.
- The college provides conducive environment for research.
- Eleven faculty members are pursuing doctorate degree.
- Six faculty members are guiding research scholars.

6.3.5 Library, ICT and physical infrastructure / instrumentation

Total Area of the library (in Sq. Mts.)	585.80 sq. mtr.
Total Seating Capacity	221
Working hours (on Working days, on holiday (before examination days) and during vacation.)	9.00 a.m. to 5.30 p.m. (Monday to Saturday) all working days round the year.

The library has 3 laboratories (e-Library-1, e-Library-2 and e-Library-3) providing computational facility of approximately 80 computer nodes interconnected via LAN. These nodes are running on the Windows 2000/Windows XP/Windows 8 platform and are equipped with state of art software. The library puts a great emphasis on e-resources. While laboratories are also used for developing skills to use and apply various concepts, tools and techniques, their main purpose is to develop the core technical as well as general professional competencies through experiential and collaborative learning.

6.3.6 Human Resource Management

- Every department works as a team to accomplish any given task. Students are equal participants in the successful execution of the task.
- The college has Grievance Redressal Committee and Internal Complaint Committee (ICC) formulated as per direction of the competent authority.
- All faculty members of the college are actively involved in different committees of the Staff Council, Staff Association and Student Societies.
- Trainings and Workshops have been organized regularly for the faculty and staff. (*Annexure- VIII*).
- Women development cell.
- Student development cell.
- Faculty development committee.

6.3.7 Faculty and Staff recruitment

- The College follows rules and regulations adopted by University of Delhi.
- To bring in transparency, details for the recruitments are displayed on the website for accessing by all concerned.

6.3.8 Industry Interaction / Collaboration

- Students visited Yakult Industry and had informative interactions there.
- Interaction with Triumphant Institute of Management education (TIME), The Education Tree, Fintech -Finance Society of Shaheed Sukhdev College of Business Studies and Bank of Baroda.
- Participated in the open day at Translational Health Science and Technology Institute (THSTI). THSTI is a society formed by a galaxy of leading science administrators, registered with the Registrar of Societies.
- One day educational visit to Jubilant Generics and Chemsys.
- In collaboration with TCSion training partner Noida skill development workshop for students was organized. A platform for placement opportunities to students in companies like TCS,HCL was provided..
- An industrial trip to **NTPC -Dadri** for a first hand information on Coal gas based power plant, Solar power plant, Ash Mount and cooling tower .
- Industry visits to Gogia Chemicals and NDRI ,Karnal.
- Students industrial training in summer and winter break.

6.3.9 Admission of Students

- The college follows a very transparent, on-line system for admissions. It follows the guidelines as laid down by University of Delhi.
- Appropriate up-dates are provided on the college as well as DU website.

6.4 Welfare schemes for

Teaching

- Wards of faculty members are exempted from paying the fee.
- Admission to wards as prescribed by the University of Delhi rules.
- Availability of facility of gymnasium.

Non teaching

- Wards of staff members are exempted from paying the fee
- Admission to wards as prescribed by the University of Delhi rules.
- Availability of facility of gymnasium

Students

- Students from economically weaker section of the society are helped financially from the corpus generated by the voluntary contribution of faculty staff members.
- Availability of facility of gymnasium.
- Self defence classes .
- Physical education, yoga and meditation classes.

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done Yes No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	YES	AGCR	YES	ELFA
Administrative	YES	AGCR	YES	ELFA

6.8 Does the University/ Autonomous College declare results within 30 days? NA

For UG Programmes Yes No

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

NA

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

NA

6.11 Activities and support from the Alumni Association

The alumni cell has conducted following activities for session 2017-18:

- Department of Computer Science organized an interactive session on “Career Counselling and Internship Advice” on 13th Jan 2018. Various alumni came and guided current batch of students about numerous career options relating to industry standards.
- Department of Computer Science organized a talk on “Journey to CERN- Switzerland” on 20th March 2018. Ms. Dinika Saxena, currently working as Web Developer in CERN, had a reciprocal session on training and employment options at various foreign Universities.
- Department of Instrumentation organized a one day talk cum interaction session with Alumni under activity “Vyakhyan” on 23rd August, 2017. Ms. Surabhi Jain, Research Analyst and Ms. Surbhi Gupta, Research Analyst in Jubilant Organosys Pvt. Ltd, Noida and Ms. Aparna Sharma CEO, Innovators and Entrepreneurs’ Academy, Dubai, United Arab Emirates were invited to interact with the students
- Department of Biomedical Science invited Ms. Palak Parasher to interact with students on 9th March 2018.
- Department of Electronics invited alumni, Mrs. Shikha Jain as guest of honour for the Annual Technical Fest, ELECTROMANIA CIENCIA held on 26th October, 2017

6.12 Activities and support from the Parent – Teacher Association

Holistic development of a student involves letting a student explore her potentials along with inculcating a sense of discipline because self discipline is a key-ingredient to success. Proctorial board of the college believes that “Discipline is a bridge between goals and accomplishment”. The college ensures that

students maintain decorum in the college and hostel premises. Attendance is an integral part of a student's life. Every student is expected to have a minimum percentage of attendance as stipulated by the university to be eligible to appear in semester end university examination. Students with less than 50% attendance in each department were identified and their parents were invited for an interaction with proctorial board members. The parents appreciated this endeavour of the college. They ensured that they attend the meeting in spite of their busy schedules and felt delighted by the concern of the college for their daughters.

6.13 Development programmes for support staff

Annexure VIII (Training Programs for Support Staff)

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Tree Plantation Drive and Tree Adaptation by the students.
- Lush green grounds are a testimony of eco-awareness.
- Energy saving projects.
- Rainwater harvesting.
- STP plant for Water recycling.
- Solar panels for water heaters and lighting.
- VRF system for air-conditioning.
- To discourage students from using plastics, they were given ceramic mugs for their use.

Criterion – VII

7. Innovations and Best Practices

7.1 1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Using ICT Teaching and learning such as Presentations, Interactive boards, e-learning resources.
- Organised Departmental Fest to enhance the managerial and technical skills of the students.
- Organised Social activity for cleanliness of college garden, classrooms, laboratories etc. (SHRAMDAN) to establish a fruitful collaborative and co-operative atmosphere.
- Innovative Class room teaching methods including video presentation, management games, group discussions, case studies were taken up so as to enhance the overall learning experience for students.
- Interactive and innovative guest lecturers were regularly taking place. People of repute from academia and industry were invited. This gave students a real time learning experience and helped them enhance their knowledge.

- Students were also asked to organize various events. This helped in inculcating a spirit of team work and management within the students and helped them grow as individuals.
- Emphasis on learning by doing and exposure of students to real time application of concepts learnt in theory classes.
- Outreach activities were organised for housekeeping and college canteen staff.
- New experiments were introduced under star DBT scheme to encourage students.
- ED cell has established Incubator to nurture bright new ideas of young entrepreneur.
- Adopt a village Initiatives undertaken to provide practical experience and also uplift the people residing in the village. In this connection, raw material (Pear) was procured and various value added product were made.
- Industrial visits organised to gain practical knowledge.
- One Month inter disciplinary summer internship organised for students.
- Conducted four summer projects with the 1st year and 2nd year students. In these projects, students got chance to work on various sophisticated Instruments such as UV-Vis spectrophotometer, GC, HPLC, particulate matter analyser etc.
- In the first semester mentors were assigned to weak students. Certificates were awarded to the mentors at the end of the semester.
- Festivals like Saraswati pooja and Holi were celebrated to lighten the academic pressure.
- Cash prizes and other rewards given to students by the teachers from their funds to motivate students for excellence in academic and co-curricular performances at the end of the year depending on their performances
- Organization of Technical Fest by Department where students of different colleges were invited and our students get chance to share their experiences & learn new things.
- Summer internship research programme was organized in order to develop research skills in the students. This initiative will have a long term impact on the student's future, in turn, beneficial for institution.
- Social initiative 'Utthan' has rendered help to underprivileged girls, of which, a few are unable to attend a formal school. Such initiatives bind the students to the roots of the nation and imbibe the sense of responsibility towards nation.
- The concept of 'Each one Teach one' is propagated amongst the students to help their fellow classmates, which has resulted in an overall improvement of results.
- Students are taught to analyse real life data in a meaningful manner.
- Projects were designed by students and faculty to understand and apply their knowledge for technology development. *(Annexure IX)
- Remedial classes for enhancing basic computer skills and computer language classes were organised by senior class students for junior's classes.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- **Start new courses**
The college has introduced six new undergraduate courses in this academic year, namely: B.Sc (H) Biochemistry, B.Sc (H) Microbiology, B.Sc (H) Statistics, B.A(H) Psychology, BMS (Bachelor in Management Studies) and BBA in Financial Studies. Also a foreign language course in German was introduced.

- **E-planning & management**
Dedicated e-mail ids for committees to encourage paperless work.POS machines were installed for cashless money transfer.
- **Google form for Alumni data, date/activity calendar**
Has been successfully integrated with data collection.
- **Website up gradation**
The college website has been redesigned, is regularly up-dated and is now dynamic.
- **Up gradation of College directory**
The data of all employees has been collected and verified
- **Survey and enhancement of facilities for employees, alumni and students**
In accordance to the feedback and survey, appropriate modifications.
- **E-Newsletter**
Newsletter was printed, and is available on the college website
- **Enhance & create environment for research**
The research in the college is gathering pace. Eleven faculty members are registered for Ph.D. Four faculty members are Ph.D guides.
- Establishment of Cell Culture Facility in the Department of Biomedical Sciences.
- **Parent-Teacher interaction**
Annual day and orientation days are also parent faculty interaction days. The proctorial committee interacted with parents to update them on the status of attendance of their ward.
- **Academic Audit**
Protocol has been designed
- **Security Audit**
This has been extensively surveyed.
- **Protocols for Gender Audit.**
In process
- **Fire drill**
In process
- **Short term courses for Career counseling.**
Career counseling sessions, interaction with alumni and motivational talks were regularly conducted.
- **Organize Orientation/workshop Program for non-teaching technical staff**
Successively organized
- **Encouraging students to go for start-ups and become entrepreneurs**
Entrepreneurship Development Cell has been established for this purpose.

Plan to conduct Workshops/ Seminars/Industry visits/Conference, Organize Faculty Development Program at national level

Successively organized .(Annexure VII)

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

- **TECHNOLOGY BUSINESS INCUBATOR** - The College has been awarded the approval to have Technology Business Incubator (TBI) supported by the Micro, Small and Medium Enterprises (MSME) -DI, New Delhi in February, 2018. The incubator includes space, shared use of lab equipments, direct business assistance, mentoring, networking to capital & other

technical resources the mission of incubator is to stimulate the establishment & growth of technology based startups enabling students and non-college personals to become entrepreneurs. The shortlisted unique business ideas would be supported by MSME developed at Incubator to a successful enterprise. By fulfilling this mission, the TBI would contribute to job creation & generate revenue to run the incubator without support.

- **INTERNATIONAL EXCHANGE PROGRAM** - The College has become part of Erasmus project No-2017-1-CZ01-K107-034877 (Key Activity1) along with the Silesian University, Faculty of Philosophy and Science in Opava, Czech Republic. The partner institute agreed to cooperate for the exchange of students and/or staff in the context of the Erasmus+ program. This agreement is signed for 2 academic years, that is 2017/2018 and 2018/2019. The college is under process of initiate many more international exchange programs along with the other renowned universities in Europe.

**Provide the details in annexure (annexure need to be numbered as i, ii,iii)*

7.4 Contribution to environmental awareness / protection

7.5 Whether environmental audit was conducted? Yes No

7.6 **Any other relevant information the institution wishes to add. (For example SWOT Analysis)**

Strengths:

- Excellent infrastructure
- Lush green Campus with residential facility
- Dedicated Faculty and staff
- Good ranking and accreditation
- Strong efforts in extension and outreach programmes
- High level of interaction between faculty and student
- Strong Alumni to help new students to understand their future prospects in current industry scenario
- Proactive linkages with other colleges and industries
- Hands on training on various sophisticated research level instruments for all students.

Opportunity:

- Tremendous growth potential.
- We have sufficient infrastructure for running master's course and research projects in collaboration with industries/research institutions.

8. Plans of institution for next year

- To make students well equipped with latest developments in the field of study through invited lecture and workshops.
- To organize various competitions such as quiz, debate etc, for grooming overall personalities of the students.
- Participations of students in different seminars and workshops.
- To choose skill enhancement and discipline specific courses relevant to industrial applications.
- To organize camp for social outdoor activities.
- Plan to upload assignments on the website and make a provision of online submission of the same.
- A pro-active placement cell.
- To propagate stronger interaction with alumni.
- Interaction with parents to be increased.
- Collaboration with industries/research institutions.
- Enhance the Research environment.
- To maximize ICT enabled teaching methodology
- Plan to train Govt. School science teachers under “Train the trainer” module.
- Greater involvement in extension activities.
- The college is in the process of initiating more international exchange programs with renowned universities in Europe.
- Inter-departmental. Summer workshop under DBT star scheme. Plan to open it for outside candidate also from next year.

Name -**Ms. Venika Gupta**

Name - **Dr. Payal Mago**



Signature of the Coordinator, IQAC



Signature of the Chairperson, IQAC

_____*_*_*_____

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

Annexure I: A – Academic Calendar



UNIVERSITY OF DELHI

दिल्ली विश्वविद्यालय

Most Urgent/Out Today

No. Aca.1/299/Academic Calendar/56

09.05.2017

NOTIFICATION

The following Academic Calendar to be followed for the Undergraduate and Postgraduate courses for the academic year 2017-2018, is hereby notified for necessary compliance by all concerned:

SEMESTER I/III/V/VII	
Classes Begin	20 th July, 2017 (Thursday)
Mid-Semester break	30 th September, 2017(Saturday) to 6 th October, 2017 (Friday)
Classes begin after Mid-Semester Break	7 th October, 2017 (Saturday)
Dispersal of Classes, Preparation leave and Practical Examinations begin	16 th November, 2017 (Thursday)
Theory Examinations begin	30 th November, 2017 (Thursday)
Winter Break	17 th December, 2017 (Sunday) to 31 st December, 2017 (Sunday)
SEMESTER II/IV/VI/VIII	
Classes begin	1 st January, 2018 (Monday)
Mid-Semester break	2 nd March, 2018 (Friday) to 7 th March, 2018 (Wednesday)
Classes begin after Mid-Semester Break	8 th March, 2018 (Thursday)
Dispersal of Classes, Preparation leave and Practical Examinations begin	27 th April, 2018 (Friday)
Theory Examinations begin	9 th May, 2018 (Wednesday)
Summer Vacations	20 th May, 2018 (Sunday) to 19 th July, 2018 (Thursday)

[Signature]
REGISTRAR

Copy to:

- (i). The Dean Students' Welfare/The Proctor/The Dean (Examinations)
- (ii). All Deans/Heads/Principals/Directors/Prof. -In -Charge
- (iii). The Chairman, Delhi University Sports Council/The Director-SOL/NCWEB
- (iv). The OSD (Admission), University of Delhi, Delhi-110007.
- (v). The Joint Dean, University Information Centre
- (vi). The JR-VCO, JR (Teaching)/Colleges/Council/JR-SDC
- (vii). The DR-SDC/AR-Colleges/SDC/Registrar-Office
- (viii). The PS to VC/PVC/DC/DSC/Registrar

[Signature]

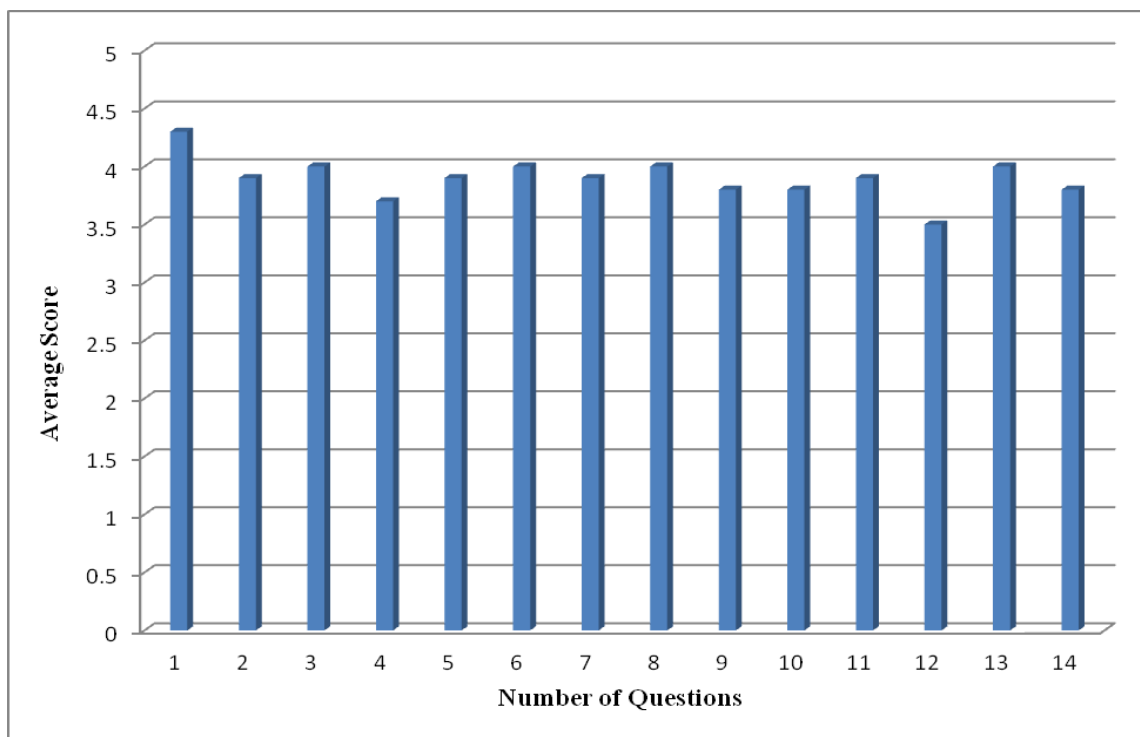
Annexure I: B – Activity Calendar

S.No	Date	Name of the Event	Event
1	5-7.7.2017	Next Generation Sequencing Data Analysis	Workshop
2	14.7.17	Training on Silvaco TCAD	Training
3	21-27.7.2017	Recent Trends in Applied Science Teaching (FDP-RTAST)	Faculty Development Program
4	31.7.17	FSSAI Training	Workshop
5	1-12.8.17	Sports conditioning program	Workshop
6	18.8.17	Yoga and aerobics performance at fresher's party 2017	Performance
7	22.8.17	Nehru Planetarium Visit	Educational Visit
8	23.8.17	Departmental Orientation	Induction Programme
9	23.8.17	Vyakhyan	Talk
10	24.8.17	"Better Than Normal"- A Motivational Talk	Talk
11	29.8.17	Enhancing Interpersonal Relationships	Talk
12	1.9.17	Visit to South Campus, University of Deihi	Educational Trip
13	13.9.17	“Importance of management studies” by Dr. Kumar Bijoy	Talk
14	14.9.17	Take a Minute, Change a Life: A Session on Suicide Prevention Awareness	Interactive Session
15	21.9.17	Invited talk by Dr. Aparna Mehra	Talk
16	22.9.17	Visit to Transitional Health Science and Technology Institute (THSTI)	Industrial Visit
17	25-29.9.17	Interdepartmental Tournament	Sports competition
18	26.9.17	Communication Skills for career excellence	Workshop
20	26.9.17	Musicology: Music Therapy Workshop	Workshop
21	27.9.17	Visit to AIIMS	Industrial Visit
22	28.9.17	“ Cyber Security” by Mr. Rakshit Tandon	Talk

23	10.10.17	Career Guidance	Seminar
24	11-17.10.17	Mental Health Awareness Week	Workshop, Street Play, Competitions
25	13.10.17	Visit to DIPAS	Institutional visit for Educational Purpose
26	13.10.17	World Food Day	Seminar
27	31.10.17	Budding Entrepreneurs	Seminar
28	31.10.17	Guidance on Study Abroad By TIME	Workshop
29	1.11.17	Visit to Jubilant Generics and Chemsys	Industrial Visit
30	3.11.17	"Anecdotes in Biological Sciences" by Dr. S. Lakshmi Devi	Seminar
31	9.11.17	National Entrepreneurship Day	Talk
32	15-21.12.17	National Para-teaching Staff Skill Enhancement Workshop (PTSSEW 2017)	Workshop
33	3-7.1.18	Workshop on Virtual Instrumentation in LABVIEW and IoT with Raspberry Pi	Workshop
34	3.1.18	Talk by Prof. Yogesh Velankar	Talk
35	8.1.18	GST AND IFRS(International financial reporting standards)	Seminar
36	11.1.18	Session on Stress Management	Interactive Event
37	13.1.18	Exploring Career Opportunities	Interactive career counselling session
38	15.1.18	"Library Resources and Informational Databases" by Dr Projes Roy	Seminar on "Library"
39	18.1.18	Lecture by Zoheb Karim	Seminar
40	18-19.1.18	Drug Discovery Technology- Computational Approaches in Drug Discovery and Design	Workshop
41	18-19.1.18	Spardhaa- Sports Fest	Inter-college Sports Competition
42	22.1.18	Celebration of Saraswati Puja	Celebration
43	24.1.18	Talk on "Jantar Mantar Observatories of India" by Dr. N. Rathnasree, Director of Nehru Planetarium	Talk

44	25.1.18	Inauguration of Biochemistry Lab 2	Seminar
45	29.1.18	Cervical cancer awareness	Talk
46	1.2.18	Seminar by Mr Wesley Wojtas	Seminar
47	2.2.18	Seminar on "The Charm of Biochemistry- Scope, Research Applications and Future Prospects" by Dr Suman Kundu	Seminar
48	3.2.18	Hands-on workshop on python3	Workshop
49	7-23.2.18	Self Defence Course	Workshop
50	10.2.18	Workshop	Workshop
51	13.2.18	Decoding the Union Budget	Talk
52	13.2.18	Failure is the best thing that can happen to you	Talk
53	15.2.18	Workshop	Workshop
54	19.2.18	Oxxy healthcare program	Session
55	21-22.2.18	Visit to Taj Mahal And Bharatpur	Excursion
56	27.2.18	Talk on Sexual Exploitation	Talk
57	8-9.3.18	Workshop on Mathematica	Workshop
58	9.3.18	Alumini : Ms Palak Parasher (2012-15) interaction	Talk
59	14-18.3.18	Trip to Mcleodganj	Excursion
60	20.3.18	Journey to CERN	Talk

Analysis for Faculty (Feedback from students)

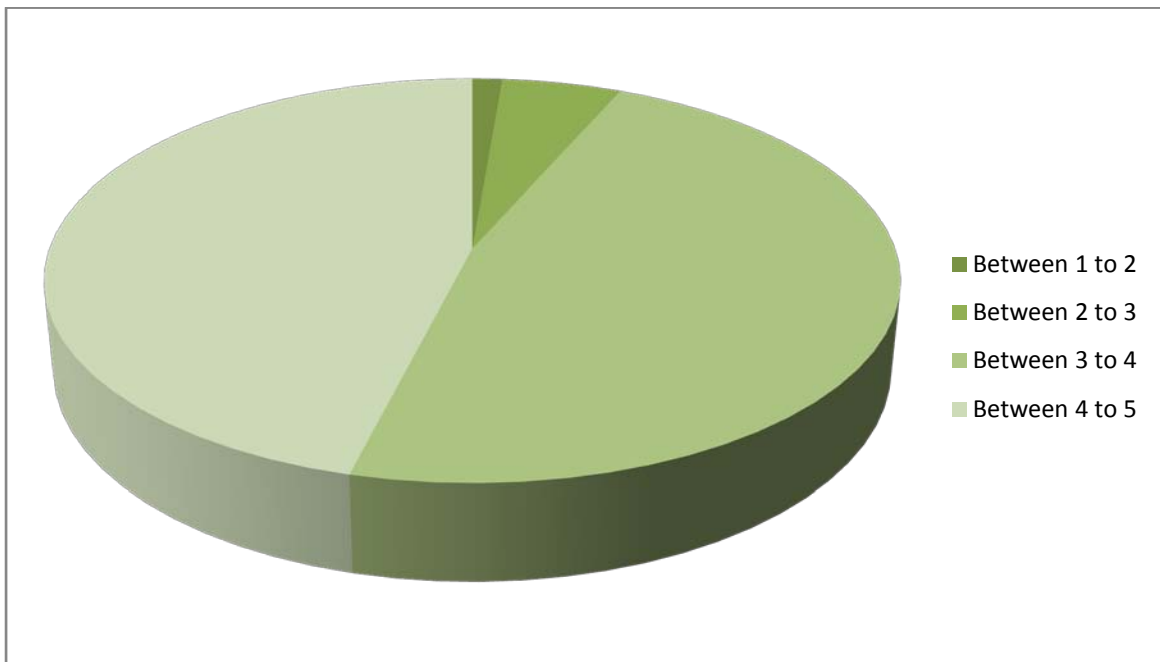


S.No.	Questions
1	The teacher is regular in taking lectures and practicals?
2	The teacher is able to make the concepts understandable for the class ?
3	The teacher is skilled to handle indiscipline behavior in the class?
4	The teacher is able to stimulate interest in the class ?
5	The teacher encourages participation and discussion in the class?
6	The teacher conducts tests or assignments or quizzes or seminars or presentations in the class?
7	The teacher shares and discusses the answers of class tests after the conduct of tests?
8	The teaching adequately covers all topic listed in the syllabus at relevant speed?
9	The teacher refers and encourages the students to update themselves about latest developments in the concerned subject?
10	The teacher helps and mentors students towards overall personality development?
11	The teacher ensures that the class has understood the topic taught by him/her?
12	Modern teaching aids such as projectors or models or videos or simulators are used by the teacher?
13	The teacher is available and accessible to the students?
14	The teacher makes extra efforts beyond the specified curriculum for subject enrichment?

The feedback from more than 700 students was collected and analyzed.

- The feedback from the students reflected an appreciation for the faculty.
- The adherence to lecture and practical/tutorial schedule scored the highest.
- The faculty's response to indiscipline marked a big positive.
- The faculty is available to the students.
- In the present scenario of modern technology, the need for use of more modern methods of teaching aids is expected.

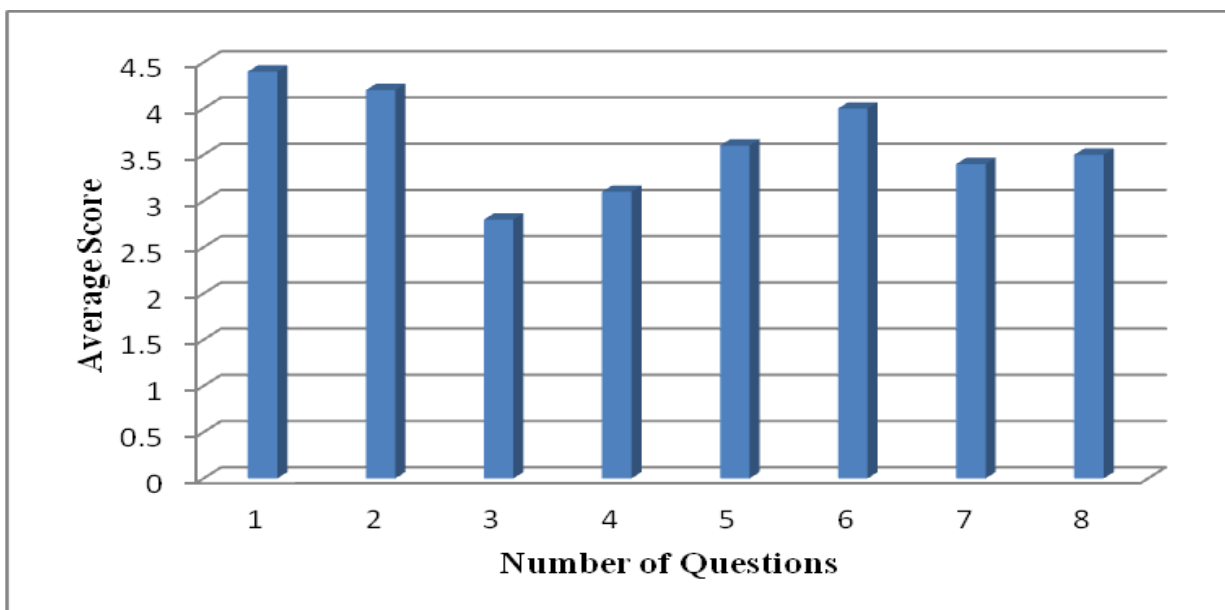
Overall Students Feedback for Faculty (Average)



The feedback for 79 faculty members was received and analyzed.

- The overall faculty scored an average of 3.9 on overall score of 5, indicative of the good quality of faculty and teaching methodology.
- 93% faculty had the score lying in the range 3-5.

Administration Services and Infrastructure Analysis (Feedback from students)

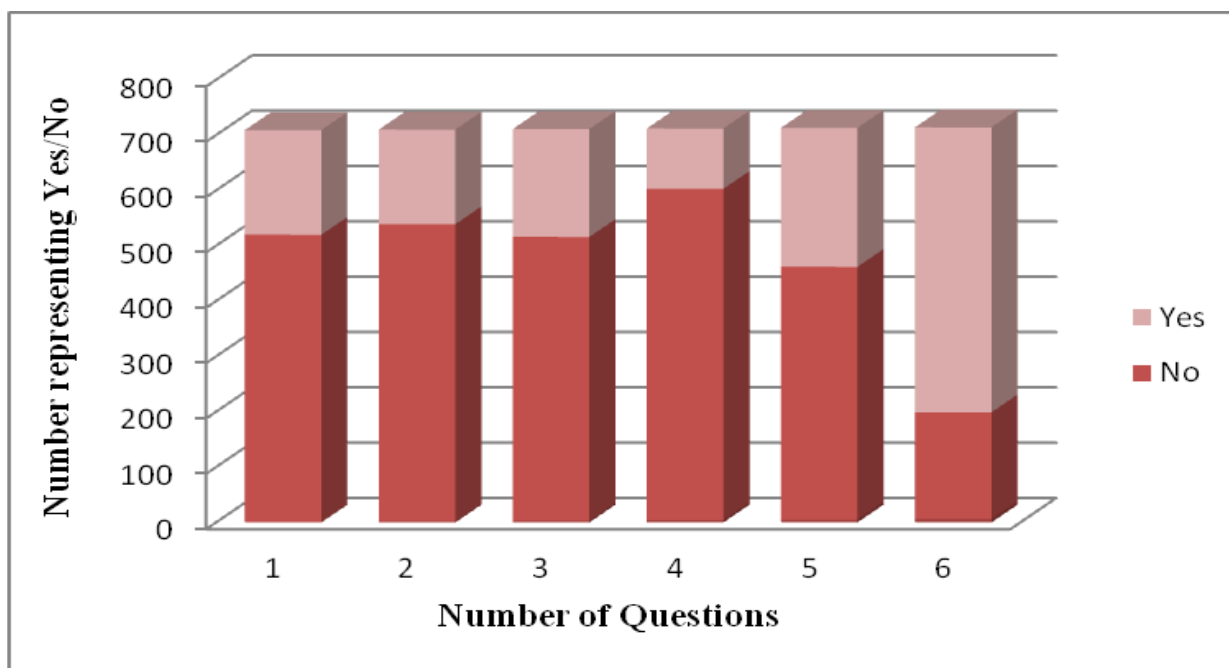


S.No.	Questions
1	The campus is green and eco-friendly.
2	The classrooms are clean and well maintained.
3	Toilets/washrooms are clean and properly maintained.
4	Are you aware of college facilities available for specially abled persons?
5	Equipment in the lab(s) is in good working condition.
6	Lab staff is co-operative and helpful.
7	Library staff is co-operative and helpful.
8	The office staff is helpful and approachable.

In the survey from more than 700 students for infrastructure and administrative services overall response was good.

- The students were found to be appreciative of the green and eco-friendly environment of the college campus.
- An extra effort to create awareness of the facilities available on campus for the specially -abled persons is required.
- The laboratory staff was appreciated for their efforts.

Library Facilities (Feedback from students)

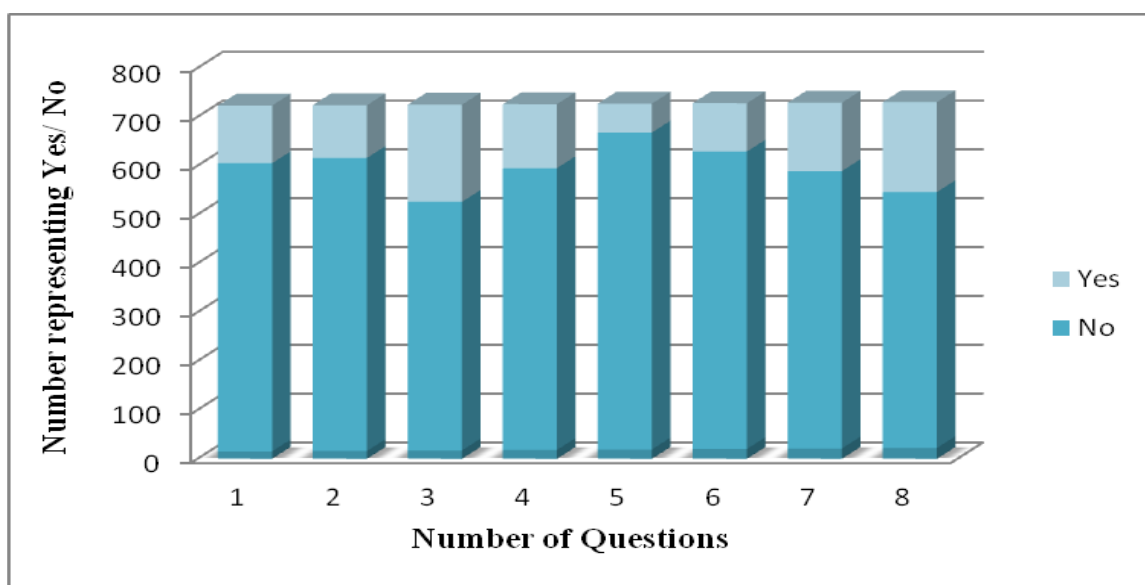


S.No.	Questions
1	Problems you face in the library? [Regarding issue and return of books]
2	Problems you face in the library? [Regarding condition/ state of books]
3	Problems you face in the library? [Regarding internet connection]
4	Problems you face in the library? [Regarding RFID system]
5	Problems you face in the library? [Regarding library timings]
6	Problems you face in the library? [Regarding availability of sufficient number of books]

The response from about 700 students, the survey indicated

- 71% of the students had no problems in the library and its services.
- The RFID system got a big positive.
- The insufficient books of course seem to be the main concern.

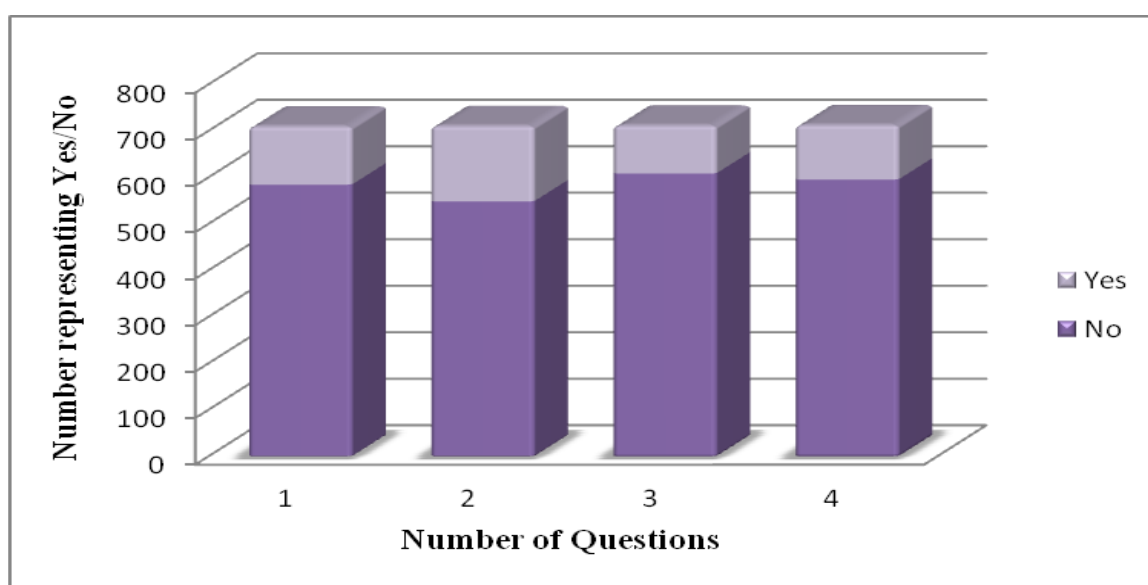
Admission and Examination Procedure (Feedback from students)



S.No.	Questions
1	Hurdles that you encountered during the admission process? [Regarding help desks in the college]
2	Hurdles that you encountered during the admission process? [Regarding college website]
3	Hurdles that you encountered during the admission process? [Information through various notices]
4	Hurdles that you encountered during the admission process? [Regarding payment of fee]
5	Problems you face in relation to examinations? [Regarding issue of admit card]
6	Problems you face in relation to examinations? [Regarding getting clearance slip]
7	Problems you face in relation to examinations? [Regarding submitting examination fees]
8	Problems you face in relation to examinations? [Regarding display of seating plan]

- For the admission procedure, no major grievance was present, with information for admission process being slightly lacking.
- For the examination too, no major grievance was present, with the display for seating plan insufficient. .

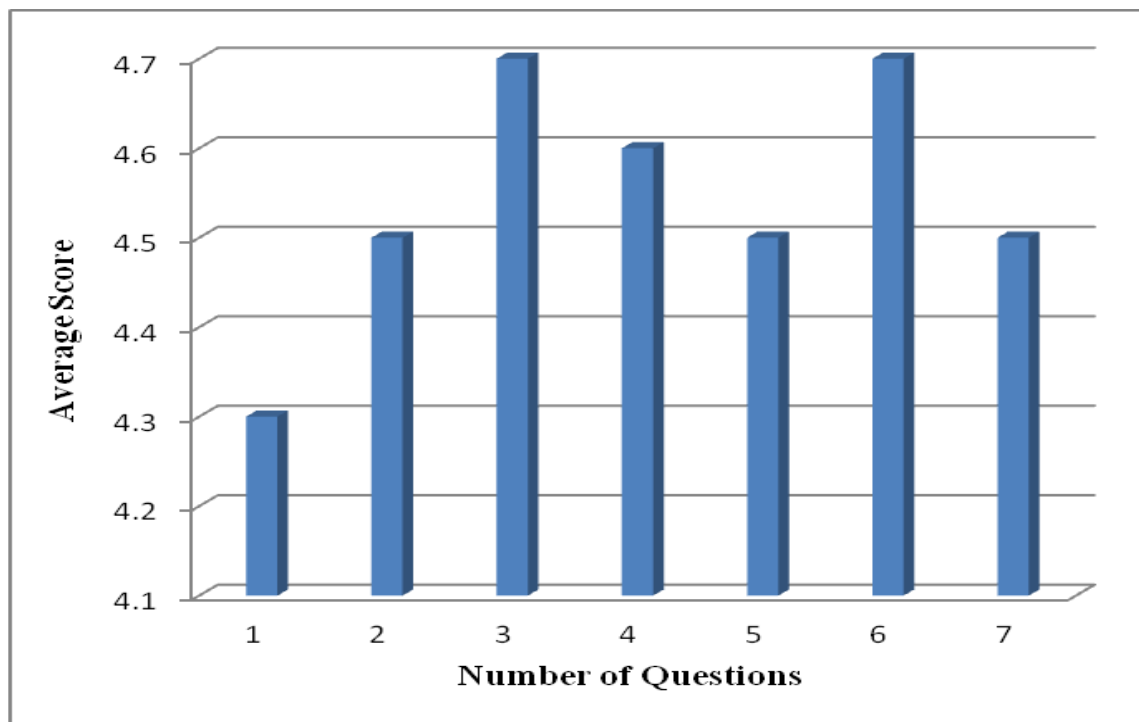
Administration Services (Feedback from students)



S.No.	Questions
1	Problems you face, if any, concerning the administration? [Regarding bus pass form approval]
2	Problems you face, if any, concerning the administration? [Getting the documents verified and signed]
3	Problems you face, if any, concerning the administration? [Regarding train travel concession for students]
4	Problems you face, if any, concerning the administration? [Regarding sanctioning of letters and applications such as provisional certificates, marksheets etc.]

No major problem was indicated in the survey from students for administrative services.

Administrative Services (Employee Feedback)



S.No	Questions
1	Are you satisfied with Recreational facilities available in the college? (GYM, Sports, etc)
2	Are you satisfied with Infrastructure facilities provided by the college?
3	Are you satisfied with approval of leave application on time?
4	Are you satisfied with reimbursement of medical bill?
5	Are you satisfied with LTC bill : Advance & Settlement?
6	Will you recommend courses offered by the college to others?
7	Are you satisfied with quality improvement initiative taken by the college?

The survey from the employees was not a success with majority refraining from participating.

The survey did not include the non-permanent faculty.

The responding employees appreciated the timely dispersal of LTC bills and leave applications.

Annexure III

Conference/ Seminar/ Workshop attended by Faculty (July 2017- June 2018)

Department	Name of the faculty	Name of the conference and details of the organizers	Dates of the Conference
Chemistry	Dr. Shuchi Dhingra	International Conference on Advancing Green Chemistry: Building a Sustainable Tomorrow (Workshop on Green Chemistry Courses) , organized by Green Chemistry Network Centre, University of Delhi and Hindu College.	3 – 4 th October 2017
	Dr. Shuchi Dhingra	National Workshop on Water: An Element of Life , organized by Gandhi Smriti and Darshan Samiti and Jaladhikar Foundation.	14 th April 2018
	Dr. Deepak Kumar	One day workshop on Document verification: A Forensic Perspective organised by Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, Delhi.	11 th June 2018
Computer Science	Ms. Tina Sachdeva	2017 International Conference on Computing and Communication Technologies for Smart Nations (IC3TSN) Organizer- G D Goenka University, Gurugram, India.	12 – 14 th October 2017
	Ms. Tulika Kumari	Attended a National workshop on "A trend towards Machine Learning: Techniques and Applications" at Deen Dayal Upadhyaya College, University of Delhi.	26 th December 2017 – 1 st January 2018
	Ms. Neha Gandhi	6th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO) (Trends and Future Directions Organizers: Amity Institute of Information Technology (AIIT) Amity University Uttar Pradesh, Noida, India.	20 – 22 nd September 2017
	Ms. Neha Gandhi	First International Conference on Information Technology and Knowledge Management, Organizers: Shaheed Sukhdev College of Business Studies (SSCBS), University of Delhi.	22 – 23 rd December 2017
Electronics	Ms. Venika Gupta	Attended DST sponsored Third Lecture Workshop on Trans-disciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees organised by Science Foundation, Deen Dayal Upadhyaya College, University of Delhi.	15 – 16 th September 2017

	Ms. Preeti Singhal	Attended DST sponsored Third Lecture Workshop on Trans-disciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees organised by Science Foundation, Deen Dayal Upadhyaya College, University of Delhi.	15 – 16 th September 2017
	Ms. Preeti Singhal	Ee-procurement Workshop and Training in Bhaskaracharya College of Applied Sciences.	7 – 8 th November 2017
	Ms. Monika Tyagi	Attended a FDP on “Mathematica” at Hansraj College, University of Delhi.	
	Dr. Neha Katyal	Attended DST sponsored Third Lecture Workshop on Trans-disciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees organised by Science Foundation, Deen Dayal Upadhyaya College, University of Delhi.	15 – 16 th September 2017
	Mr. Deepak Jaiswal	Attended a Workshop on VLSI Current Trends Using Mentor Graphics & Xilinx organized by Department of Electronics Science, South Campus and CoreEL Technologies.	21 – 22 nd March 2018
Food Technology	Ms. Para Dholakia	National Conference on Food Safety, Nutrition Security and Sustainability, Amity University, Uttar Pradesh.	26 th September 2017
		NFI technical orientation programme on ‘Assessment of Nutritional Status in Dual Malnutrition Burder Era’.	6 th October 2017
		Interface between Research Methods and Ethics, Lady Irwin College, University of Delhi.	27 th April 2018
	Ms. Prabhjot Kaur Sabharwal	National Conference on ‘Impact of Food Processing sector on Indian Economy’ organised by AFSTI	13 th April 2018
Instrumentation	Dr. Sonal Singh	4th International Conference on Nanoscience and Nanotechnology, SRM University, Chennai.	9 – 11 th August 2017
	Dr. Sarul Malik	National Science Day 2018 held on 28 th Feb. 2018 at Indian National Science Academy, Delhi.	28 th February 2018
		SYSCON 2017-2018 National conference of the society of young Scientist (R) AIIMS, New Delhi.	11 – 12 th January 2018
		IIT Delhi’s Industry day under the theme of Affordable Healthcare held on 23 rd Sept. 2017 at Indian institute of Technology Delhi.	23 rd September 2018
	Dr. Sneha Kabra	National Seminar on Recent Advances and Challenges Faced in GaN HEMT organized by IEEE Chandigarh Subsection and Punjab Engineering College,	19 th August 2017

		Chandigarh.	
		Mini Colloquia on On Insights of Emerging Nanoscale Research Devices organized by Maharaja Agrasen Institute of Technology, Indraprastha University.	11 th December 2017
		National Conference on Technological Empowerment of Women organised by National academy of Sciences, India.	8 – 9 th March 2018
	Dr. Daya Bhardwaj	STEM Teacher Training Workshop on Research based Pedagogical Tool held at Pt. Ravishankar Shukla University, Raipur organized by MHRD, DBT, Govt. of India, ISER Pune, Newton Bhabha Fund of British council and Centre for Science Education, Sheffield Hallam University, UK.	6 – 9 th October 2017
Management	Ms. Yuthika Agarwal	'Charon Or Pani, PhirBhi Bharat PyasaKyouin' organised by Jaladhikar Foundation.	24 th March 2017
		'Adaptation and implementation of Paris agreement: National initiatives towards climate change mission' organised by Shaheed Bhagat Singh Evening College, University of Delhi.	21 – 22 nd April 2017
		Contemporary Themes in India's Economic Development and the Economic Survey organised by Chief Economic Advisor (Arvind Subramanian) with MHRD.	11 – 17 th June 2017
		National Economic Conclave organised by India Policy Foundation.	17 – 18 th February 2017
		Water: An element of Life organised by Gandhi Smriti and Darshan Samiti and Jaladhikar Foundation.	14 th April 2018
	Ms. Sanjana Monga	International conference on Advances in Management and decision Sciences, Gautam Buddha University, Noida.	30 – 31 st December 2017
National Conference on Disaster Management, Aditi Mahavidyalaya, University of Delhi.		26 th March 2018	
Mathematics	Dr. Raksha Verma	Dream Realization of Swachh Bharat Abhiyan Through Innovative and Smart Technologies for Waste Management and Pollution Control, Sunrise University, Alwar, Rajasthan.	16 – 17 th December 2017

	Dr. Shuchi Agrawal	33 rd Annual Conference of the Ramanujan Mathematical Society, Department of Mathematics, University of Delhi.	1 – 3 rd June 2018
Library	Dr. Projes Roy	Information Communication in Digital Era: Present Scenario and Future Perspectives (ICICDEPSFP-2018), Aggrawal College, Ballavgarh, Harayana.	24 – 25 th February 2018

Annexure IV: A – Research Publications

Research Papers in Journals and Conferences (July 2017- June 2018)

S. No.	Department	Name of the Faculty	Title of the paper/ Author	Journal's name and details/ Name of the conference and details of the organizers if full paper is published in the proceedings	Country of publication	Peer reviewed Yes/No	Indexing WoS, Scopus, PUBMED, ICI etc.	No. of citations of all Publications during July 2017 - June 2018
1	Biochemistry	Dr. Sadhna Jain	Estimation of phenolic content, flavonoid content, antioxidant property and alpha amylase inhibition activity of pomegranate (punica granatum) and kinnow (hybrid of citrus nobilis and citrus deliciosa) peels. Author – Saxena P.* and Jain S.	Journal – World Journal of Pharmaceutical Research Volume 7, Issue 2, 817-826. Research Article ISSN 2277–7105 SJIF Impact Factor 8.0	India	Yes	SJIFactor.com	-
2	Biomedical Science	Dr. Varsha Mehra Dr. Payal Mago Dr. Manisha Khatri	Antimycobacterial Potential of Indian Spices: A Review. Author – N Chaudhary, V Mehra, P Mago, M Khatri	Journal – International Journal of Pharmacognosy and Phytochemical Research, 2017; 9(8); 1127-1134 Impact factor: 1.279 H index: 10	India	Yes	ICI	
3		Dr. Varsha Mehra Dr. Manisha Khatri	Assessment of Anti-diabetic and Anti-oxidant activity of Murraya Koenigii extracts using in-vitro assays. Author – V Mehra, M Khatri, S Mishra, N Singh, N Sharma, R Goswami, N Mehta	Journal – Journal of Biomedical and Therapeutic Sciences 5 (1), 1-8 Impact factor: 2.6 H index: NA	India	Yes	Google Scholar, WHO HINARI	28
4		Dr. Manisha Khatri	Investigating the free radical scavenging and acetylcholinesterase inhibition activities of Elletariacardamomum, Piper nigrum and Syzygium aromaticum Author – M Gupta, C Sharma, P Meena, M Khatri	Journal – Int. J. Pharm. Sci. Res 8 (7), 3180-86 Impact factor: 0.59 H index: 3	India	Yes	Thomson Reuters	40

5		Dr. Neetu Sain	RiPPMiner: a bioinformatics resource for deciphering chemical structures of RiPPs based on prediction of cleavage and cross-links Author – Agrawal P, Khater S, Gupta M, Sain N, and Mohanty D	Journal – Nucleic Acids Research. 2017 Jul 3;45(W1):W80-W88 Impact factor: 11.561 H index: 436		Yes	PMID: 28499008	19
6			SBSPKSv2: structure-based sequence analysis of polyketide synthases and non-ribosomal peptide synthetases Author – Khater S, Gupta M, Agrawal P, Sain N, Prava J, Gupta P, Grover M, Kumar N, and Mohanty D	Journal – Nucleic Acids Research. 2017 Jul 3;45(W1):W72-W79 Impact factor: 11.561 H index: 436		Yes	PMID: 28460065	
7	Chemistry	Dr. Jasjeet Kaur	Multimetal deposition method for detection of latent fingerprints: a review Author – Jasjeet Kaur G S Sodhi	Journal – Egyptian Journal of Forensic Sciences (2017) 7:17	Egypt	Yes	WoS, Scopus	45
8			The forgotten Indian pioneers of Fingerprint Science Author – Jasjeet Kaur G S Sodhi	Conference – Emergence of Modern Science in Colonial India organized by Indian National Science Academy on March 14-16,2018				
9		Dr. Anjeeta Rani	Sustained Stability and Activity of Lysozyme in Choline Chloride against pH Induced Denaturation Author – Indrani Jha, Anjeeta Rani and Pannuru Venkatesu	Journal – ACS Sustainable Chem. Eng., 2017, 5, 8344–8355.	US	Yes	WoS& Scopus	02
10			The effects of biological buffers TRIS, TAPS, TES on the stability of lysozyme. Author – Pavani Pannuru, Anjeeta Rani, Pannuru Venkatesu and Ming-Jer Lee.	Journal – Int. J. Biol. Macromol., 2018, 112, 720-727.	Netherlands	Yes	WoS& Scopus	
11			Undesirable impact on Structure and Stability of Insulin on Addition of (+)-Catechin Hydrate with Sugar. Author – Anjeeta Rani, Indrani Jha and Pannuru Venkatesu	Journal – Arch Biochem. Biophys., 2018, 646,64-71.	US	Yes	WoS& Scopus	
12			Influence of additives on thermoresponsive polymers in	Journal – Phys. Chem. Chem. Phys., 2018, 20, 9717-9744	England	Yes	WoS& Scopus	

			aqueous media: A case study of poly(N-isopropylacrylamide) Author – Reddicherla Umapathi, P. Madhusudhana Reddy, Anjeeta Rani and Pannuru Venkatesu					
13		Dr. Deepak Kumar	Synthesis, antiamebic activity and docking studies of metronidazole-triazole-styryl hybrids Author – Beena Negi, PrijaPoonan, Mohammad Fawad Ansari, Deepak Kumar, Sakshi Aggarwal, Ramandeep Singh, Amir Azam, Diwan S. Rawat	Journal – European Journal of Medicinal Chemistry 150 (2018) 633-641	France	Yes	Elsevier	
14	Computer Science	Dr. Suruchi Chawla	Application of hybrid of Fuzzy Set, Trust and Genetic Algorithm in query log mining for effective Information Retrieval, Vol 6, Issue 1, pp 47-52, 2018 Author – Dr. Suruchi Chawla	Journal – International Journal of Intelligent Systems and Applications in Engineering ISSN:2147-6799	Turkey	Yes	Google scholar	90
15		Ms. Deepali Bajaj Ms. Asha Yadav Ms. Para Dholakia	Android based nutritional intake tracking application for hand-held systems Author – Deepali Bajaj, Asha Yadav, Para Dholakia	Conference – Conference Proceedings of 8th International Conference on computing, Communication And Networking Technology (ICCCNT) IEEE conference held in IIT Delhi, India on 3-5th July 2017, Page 589-591, IEEE Catalog Number:CFP1752J-ART, ISBN: 978-1-5090-3038-5	India	Yes	IEEE	
16		Ms. Tina Sachdeva Dr. AakankshaVats Ms. Neha Garg	Designing of an Application for group based coordination for information exchange in Ad-hoc Networks Author – Ms. Tina Sachdeva, Dr. Aakanksha, Ms. Neha Garg	Conference – 2017 International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN) Organizer- G D Goenka University, Gurugram, India	India	Yes		
17		Ms. Tulika Kumari	A Comprehensive Study of Shilling Attacks in Recommender Systems	Journal – International Journal of Computer Science Issues (IJCSI) Volume	Mahebourg Republ	Yes	google scholar proQuest	

			Author – Tulika Kumari; PunamBedi	14, Issue 4, July 2017 ISSN (Print): 1694-0814 ISSN (Online): 1694-0784 impact factor=0.24	ic of Mauritius				
18		Ms. Neha Gandhi	Estimating Reliability for OSS : An approach with Change-point in Operational Phase Author – Neha Gandhi, Neha Gondwal, Anu G. Aggarwal, Abhishek Tandon	Conference – 6th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO) (Trends and Future Directions), 20-22 September, 2017, Noida pg. 251-256, IEEE. (ISBN: 978-1-5090-3012-5).	India	Yes	Google Scholar	1	
19		Ms. Neha Gandhi	Reliability Modeling of OSS Systems based on Innovation : Diffusion Theory and Imperfect Debugging Author – Neha Gandhi, Neha Gondwal, Abhishek Tandon	Conference – Proceedings of the First International Conference on Information Technology and Knowledge Management, pp. 53–58 DOI: 10.15439/2018KM48 ISSN 2300-5963 ACSIS, Vol. 14.	India	Yes	Google Scholar		
20	Electronics	Dr. Amita Kapoor	Investigation of Iterative and Direct Strategies with Recurrent Neural Networks for Short-Term Traffic Flow Forecasting Author – Armando Fandango, Amita Kapoor	Conference – International Conference on Advances in Computing and Data Sciences		Yes	Yes	41	
21			Low-Resolution Image Recognition Using Cloud Hopfield Neural Network Author – Neha Soni, Narotam Singh, Amita Kapoor, Enakshi Khular Sharma	Journal – Advances in Intelligent Systems and Computing, Springer.	Germany/Singapore	Yes	Scopus		
22			Lifecycle of butterfly and true nature of things Author – Narotam Singh, Amita Kapoor	Journal – Bodhi-Path	India	Yes	No		
23		Ms. Monika Tyagi	Resonant and non-Resonant solutions of the non-linear vibration of single wall carbon nanotube embedded in viscous elastic matrix using Krylov Bogoliubov and Mitropolsky method Author – Monika Tyagi, Ayub Khan, Mushahid Husain and Samina Husain	Journal – SPRINGER proceedings of physics. Conference – International Workshop on The Physics of Semiconductor Devices (IWPSD 2017) jointly organized by Solid State Physics Laboratory and IIT Delhi		Yes			

	Food Technology	Dr. Ranjana Singh	Assessment of Anti-diabetic and Anti-oxidant activity of <i>Murraya Koenigii</i> extracts using in-vitro assays. Author – V Mehra, M Khatri, S Mishra, N Singh, N Sharma, R Goswami, N Mehta	Journal – Journal of Biomedical and Therapeutic Sciences 5 (1), 1-8 Impact factor: 2.6 H index: NA	India	Yes	Google Scholar, WHO HINARI	28
24		Dr. Prabhjot Kaur Sabharwal	Preparation of edible coating and to study their effect on shelf life of green vegetables Author – Avneet Kaur, Prabhjot Kaur Sabharwal	Journal – International Journal of Basic and Applied Biology, 2017 Vol4(4) ISSN 2349-5839	India	Yes		7
25		Dr. .Kulsum Jan	Characterization of agroindustrial byproducts and wastes for sustainable industrial application Author – Kulsum Jan, CS Riar, DC Saxena	Journal – Journal of Food measurement and characterization Springer ISSN No:21934126-2017 Impact Factor:1.18 H index:7		Yes	SCOPUS , Google Scholar, SCImago , Summon by ProQuest	17
26			Thermo-rheological and functional properties of gamma irradiated whole wheat flour. Author – Khalid Bashir, Kulsum Jan, Manjeet Aggarwal	Journal – International Journal of Food Science and Technology Wiley-Blackwell ISSN NO: 13652621-2017 Impact Factor: 1.64 H index: 78		Yes	SCI, Scopus	
27			Status supply chain and processing of cocoa- A review. Author – M.S. Beg, Sameer Ahmad, Kulsum Jan, Khalid Bashir	Journal – Trends in Food Science and Technology Elsevier Bv ISSN NO: 09242244-2017 Impact Factor: 5.191 H index: 151		Yes	Scopus BIOSIS	
28			Physicochemical and functional properties of gamma irradiated buckwheat and potato starch. Author – Ruchi Verma, Shumaila Jan, Savita Rani, Kulsum Jan, Tanya L. Swer, Kumar S. Prakash, M. Z. Dar, Khalid Bashir	Journal – Radiation Physics and Chemistry Pergamon-Elsevier Science Ltd ISSN NO: 0969806X-2018 Impact Factor: 1.435 H index: 68		Yes	Scopus	
29			Modification of structure and physicochemical properties of	Journal – International Journal of		Yes	Scopus	

			buckwheat and oat starch by γ -irradiation. Author – M Zuhaib Dar, Km Deepika, Kulsum Jan, Tanya L Swer, Pradeep Kumar, Ruchi Verma, Kush Verma, Kumar S Prakash, Shumaila Jan, Khalid Bashir	Biological Macromolecules Elsevier Science Bv ISSN NO: 01418130-2017 Impact Factor: 3.909 H index: 92				
30			Effects of gamma irradiation on starch granule structure and physicochemical properties of brown rice starch. Author – Pradeep Kumar, Kumar S. Prakash, Kulsum Jan, Tanya L. Swer, Shumaila Jan, Ruchi Verma, Km Deepika, M. Zuhaib Dar, Kush Verma, Khalid Bashir	Journal – Journal of Cereal Science Academic Press Ltd- Elsevier Science Ltd ISSN NO: 07335210-2017 Impact Factor: 2.303 H index: 96		Yes	Scopus	
31	Instrumentation	Dr. Yogesh Pratap & Dr. Sneha Kabra	Analytical modeling of gate-all-around junctionless transistor based biosensors for detection of neutral biomolecule species Author – Yogesh Pratap, Sneha Kabra, Subhasis Haldar, Mridula Gupta, RS Gupta	Journal – Journal of Computational Electronics, Vol 17, issue 1, pp. 288-296, March 2018. Impact factor: 1.431 h-index: 8	Netherlands	Yes	(Scopus, INSPEC, CAS)	2
32		Dr. Yogesh Pratap, Reshma Sinha, Sarul Malik and Sneha Kabra	Performance analysis of metalloid source/drain GaAs-FinFET for analog/RF Applications Author – Yogesh Pratap, Reshma Sinha, Praveen Pal, Sarul Malik and Sneha Kabra	Conference – 4th International Conference on Circuits, Devices and Systems - ICDCS 2018, 16-17 March, 2018	Kerala, India	Yes		
33		Dr. Yogesh Pratap	Cylindrical gate all around Schottky barrier MOSFET with insulated shallow extensions at source/drain for removal of ambipolarity: a novel approach Author – Manoj Kumar, Yogesh Pratap, Subhasis Haldar, Mridula Gupta, RS Gupta	Journal – Journal of Semiconductors, Vol. 38, no.12, pp 12402-10, Dec. 2017. Impact factor: 0.59 h-index: 4	United Kingdom	Yes	Scopus	2
34		Dr. Yogesh Pratap, Reshma Sinha, Dr. Sarul Malik and	Performance analysis of metalloid source/drain GaAs-FinFET for analog/RF Applications Author – Yogesh Pratap, Reshma Sinha, Praveen Pal, Sarul	Conference – 4th International Conference on Circuits, Devices and Systems - ICDCS 2018, 16-17 March, 2018	Kerala, India			

		Dr.SnehaKabra	Malik and Sneha Kabra						
35		Dr. Sonal Singh	Concentration specific and tunable photoresponse of bismuthvanadate functionalized hexagonal ZnO nanocrystals based photoanodes for photoelectrochemical application Author – Sonal Singh, AakanshaRuhela, Sanju Rani ,ManikaKhanuja, Rishabh Sharma	Journal – Solid State Sciences, Elsevier Impact factor:1.86 h-index: 1	Nether lands	Yes	Scopus	17	
36			Enhanced surface area, high Zn interstitial defects and band gapreduction in N-doped ZnO nanosheets coupled with BiVO4 leads to improved photocatalytic performance Author – SonalSingh, RishabhSharma, Bodh Raj Mehtab	Journal – Applied Surface Science, Volume 411, 31 July 2017, Pages 321-330 Impact factor:4.4	Nether lands	Yes	Scopus		
37	Management	Yuthika Agarwal	Water sustainability in India Author – Yuthika Agarwal, Navneet Manchanda	Journal – The Horizon, A journal of Social Science, ISSN- 0975-5535	India	Yes			
38	Maths	Dr. Punita Saxena	Benchmarking State Road Transport Undertakings of India: A DEA-based stepwise approach Author – Punita Saxena	Conference – 9th International Conference on Applied Operational Research, Chung Yuan Christian University, Taiwan held from December 18-20, 2017	Taiwan			11	
39		Dr. Ritika Chopra	Solving Fuzzy Linear Programming Problems with Bell-shaped membership functions Author – Chopra, R., Saxena, R.R.	Journal – The Journal of Fuzzy Mathematics, 2017, 25 (4), pp. 795-804.	USA	Yes	Zentralblatt Math	5	
40			An application of Matrix games with Trapezoidal Intuitionistic fuzzy pay-offs in transportation problem Author – Chopra,R., Saxena, R.R	Conference – 9th International Conference on Applied Operational Research, Taiwan held from December 18-20, 2017	Taiwan	Yes			
41		Dr. Raksha Verma	A Generalized Framework for Multi Up-gradation Software Reliability Growth Model Author – Verma R., Parihar R. S., Das S.	Journal – CDQM- An International Journal, 2017, 20 (1), pp. 5-15	Serbia	Yes	Scopus		

42			Multi-Up gradation Software Reliability Growth Model considering the joint effect of Testing and Operational phase Author – Verma R., Parihar R. S., Das S.	Journal – International Journal of Computer Applications, 2017, 172(5), pp. 25-30	USA	Yes	Scopus	
43		Dr. MinakshiDhamija	Approximation by Kantorovich form of modified Szasz-Mirakyan operators Author – Dhamija M. Pratap R. and Deo N.	Journal – Appl. Math. and Comput.(Elsevier), Vol. 317, (2018), 109–120	Nether lands	Yes	Scopus	15
44			Generalized Positive Linear Operators Based on PED and IPED Author – Deo, N. and Dhamija, M.	Journal – Iranian Journal of Science and Technology, Transactions A: Science (Springer) (2018).(online first) doi: https://doi.org/10.1007/s40995-017-0477-5 .	Iran	Yes	Scopus	
45			Szász–Durrmeyer type positive linear operators Author – Deo, N. and Dhamija, M.	Journal – Afrika Matematika.(Springer), Vol. 29(1-2),(2018), 223-232	United States	Yes	Scopus	
46		Ms. Tanvi	Dynamics of HIV/AIDS and TB Co-infection with Holling Type-II Treatment Rate Author – Tanvi	Conference – International Conference on “Mathematical Modeling and Computations in Biosystems” in IIT Roorkee, 12-03- 2018 to 14-03- 2018	India			
47	Physics	Dr. Ashok Kumar	Effects of UV irradiation on fission-fragment track parameters in Makrofol-E Author – Ashok Kumar, R K Jain and R N Chakraborty	Conference – International Conference on High Energy Radiation and Applications (ICHERA-2017) held during 10 to13 October, 2017 in the Department of Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, India.	India			
48		Dr. Manoj Kumar Jaiswal	Effect of low energy (keV) ion irradiation on structural, optical and morphological properties of SnO ₂ -TiO ₂ nanocomposite thin films Author – Vikas Kumar, M K Jaiswal, Rashigupta, Jagjeevan Ram, Indra Sulania, Sunil Ojha, Xin Sun, N.	Journal – Journal of Material Science-Materials in Electronics H index:5 Impact factor:2.324	Germany	Yes	Scopus	62

			Koratkar and Rajesh Kumar					
49	Library	Dr. Projes Roy	NFC and RFID Interoperability: Challenges and Opportunity in Libraries Author – Sole	Conference – NCCDLSE - 2018 National Conference on “Changing Digital Landscape in SMART Environment” on 08 February 2018 at Anasal University, Gurugram, Haryana	India			

Poster Presentations by Faculty (July 2017- June2018)

S.No.	Name of the faculty	Title of the poster	Author/s	Name of the conference/seminar and details of the organizers	Name of the city/country	Dates of conference/seminar	Abstract published or not
1	Dr. Anjeeta Rani (Chemistry Department)	Elucidation of diminished insulin structure and stability on addition of green tea with sugar	Anjeeta Rani P. Venkatesu	Science Day, INSA, Delhi	Delhi, India	28 th February 2018	No
2	Dr. Amita Kapoor (Electronics Department)	Efficiency Evaluation of Deep Learning Classifiers	Divyansh Jha Narotam Singh Armando Fandango Amita Kapoor	South East Con 2018	Florida, USA	19 – 22 nd April 2018	Yes
3	Ms. Monika Tyagi (Electronics Department)		Monika Tyagi Ayub Khan Mushahid Husain Samina Husain	International Workshop on The Physics of Semiconductor Devices (IWPSD 2017) jointly organized by Solid State Physics Laboratory and IIT Delhi	Delhi, India	11 – 16 th December 2017	Yes
4	Ms. Monika Tyagi (Electronics Department)	Dynamical Solutions of the non-linear vibration of single walled carbon nanotube embedded in viscous elastic matrix using Krylov Bogoliubov and Mitropolsky method	Monika Tyagi Ayub Khan Mushahid Husain Samina Husain		IIT Roorkee, India	6 – 8 th December 2017	Yes
5	Ms. Saumya Chaturvedi (Food Technology Department)	Optimization of air drying process for osmotically concentrated apple slices. Exploitation and utilization of unmarketable (Grade D) potatoes from local Delhi markets for the preparation of Instant Custard		National Conference on Food Safety, Nutrition Security and Sustainability AMIFOST – 2017 at Amity University Uttar Pradesh, Noida.	NOIDA (UP) India	26 th September 2017	Yes

		Powder with different flavours- A Study					
6	Ms. Prabhjot Kaur Sabharwal Ms. Vandana (Food Technology Department)	Street Foods- Safety and Potential		National Conference on Food Safety, Nutrition Security and Sustainability AMIFOST – 2017 at Amity University Uttar Pradesh, Noida.	NOIDA (UP) India	26 th September 2017	Yes
7	Dr. Sonal Singh (Instrumentation Department)	Nitrogen-doped ZnO coupled with BiVO ₄ with high Zn interstitial defects and enhanced surface area for enhanced photocatalytic dye degradation activity	Sonal Singh Rishabh Sharma	4th International Conference on Nanoscience and Nanotechnology, SRM University, Chennai	India	9 – 11 th August 2017	-
8	Dr. Sarul Malik (Instrumentation Department)	Non Invasive Platform to Estimate Fasting Blood Glucose using salivary electrochemical parameters	Sarul Malik SnehAnand Shalini Gupta	National Science Day 2018 at Indian National Science Academy, Delhi.	New Delhi, India	28 th February 2018	Yes
		Blood glucose estimation using saliva as a non invasive biofluid	Sarul Malik SnehAnand Shalini Gupta	SYSCON 2017-2018 National conference of the society of young Scientist (R) AIIMS, New Delhi	New Delhi, India	11 – 12 th January 2018	Yes
		Non Invasive Platform to Estimate Fasting Blood Glucose using Saliva	Sarul Malik SnehAnand Shalini Gupta	IIT Delhi's Industry day under the theme of Affordable Healthcare at Indian Institute of Technology Delhi.	New Delhi, India	23 rd September 2017	Yes

Annexure IV: C – Research

Books Published by Faculty (July 2017 – June 2018)

Department	Name of the faculty	Title of the Book	Author/s	Name of the Publisher	ISBN No.	Country of Publication
Electronics	Dr. Amita Kapoor	TensorFlow 1.x DeepLearning Cookbook	Amita Kapoor, Antonio Guili	Packt Publishers	9781788293594	Birmingham, UK
Management	Ms. Yuthika Agarwal	The Future of Indian Economy: Post reforms and challenges ahead Chapter written: Public Sector Enterprises: Twenty-Five Years of Reforms Vis-A-Vis Disinvestment	Yuthika Agarwal, Gopal Krishna Agarwal	Rupa Publication India Pvt. Ltd 2017	978-81-291-4806-3	India
	Ms. Yuthika Agarwal	Climate Change Perspectives and Challenges in 21st Century Chapter written: Sanitation as an adaptation to mitigate climate change	Yuthika Agarwal, Navneet Manchanda	Research India Press	978-93-5171-094-3	India

Annexure IV: D – Research**Patents (July 2017 – June 2018)**

Name of the faculty	Title of the patent	Single/Collaborative	Status of the patent Filed/Granted	Patent/application number	Earnings from the patent
Dr. Jasjeet Kaur	Detection of latent fingerprints on moist, non-porous surface	Collaborative	Granted	Indian Patent No. 295542, 5 th April 2018	Nil

Awards

National

Dr. Payal Mago, Ms. Preeti Singal, Dr. Punita Saxena, Dr. Ranjana Singh, Dr. Jasjeet Kaur and Dr. Bimla Pawar received a **Girl Centric Education and Training Award** in World Women Summit 2018, organised by Women's Agency for Generating Employment (WAGE) on 8th March 2018.

State

Meritorious Teacher Award (Government of NCT of Delhi.)

Dr. Varsha Mehra

Annexure IV: F - Research

Research Guides and Scholars

S.No.	Name of Department	Name of Faculty registered during this period/ already registered as Supervisor	Name of Research Scholar	Date of Ph.D. Registration of Research Scholar	University in which the research scholar is enrolled	Area of Research
1	Mathematics	Dr. Punita Saxena	Ms. Bharti Seth	2017	Indira Gandhi Delhi Technical University	Mathematical Programming
2	Food Technology	Dr. Ranjana Singh	Ms. Para Dholakia	21 st July 2016	University of Delhi	Product Development for Celiac people
3	Electronics	Dr. Amita Kapoor	Ms. Neha Soni	17 th December 2014	University of Delhi	Pattern Recognition using Neural Networks
			Mr. Manjul Trehan	7 th June 2018	Aligarh Muslim University	Artificial Intelligence Application
4	Biomedical Science	Dr. Varsha Mehra	Ms. Smita Mishra	29 th September 2015	University of Delhi	Isolation and Characterisation of phytochemical Constituents of Adhatodha vasica for Anti-Mycobacterial Activity
5	Instrumentation	Dr. Sneha Kabra	Mr. Praveen Pal	25 th August 2017	University of Delhi	Modeling and Simulation of advanced semiconductor devices
6	Library	Dr. Projes Roy	Ms. Rajani Jindal	9 th December 2015	Swami Vivekanand Subharti University	
			Mr. Kanwer Pal Singh	6 th September 2015	Mewar University	Public Libraries and Eradication of Illiteracy: An Analytical Study

Collaboration- International

The College has become part of Erasmus project No-2017-1-CZ01-K107-034877 (Key Activity 1) along with the Silesian University, Faculty of Philosophy and Science in Opava, Czech Republic. The partner institute agreed to cooperate for the exchange of students and/or staff in the context of the Erasmus+ programme. This agreement is signed for 2 academic years, that is 2017/2018 and 2018/2019. The amount of the exchange program is 5880 Euro.

Linkages in 2017-18

S.No.	Organization
International	
1	Comenius University in Bratislava, Šafárikovo námestie, 6 P.O.BOX 440 , 814 99 Bratislava 1
National	
1	Spic-Macay
2	Youth Parliament- Ministry of Parliamentary Affairs
3	Youth for Sewa
4	School of Open learning
5	IGNOU
6	Manav Ujwal Samaj Samiti
7	Sakhee Sahali
8	CA Institute
9	Science Setu Program with THSTI (Transitional Health Science and Technology Institute)

Major Activities

S.No	Activity
1	In collaboration with IEEE - EDS Delhi Chapter one day training on SILVACO TCAD was organised. Mr Subhajit Chatterjee from Cognitive Design Technology PVT LTD, Bangalore delivered the training. The event was supported by DBT Star college funding.
2	One day workshop -“FSSAI Training”.
3	12 day Sports conditioning program.
4	Espirit - gave Yoga and aerobics performances.
5	Educational Visit to Nehru Planetarium.
6	Departmental Orientation Program.
7	A one day talk cum interaction session with Alumni under activity “Vyakhyan”.
8	"Better Than Normal"- A Motivational Talk.
9	A talk session titled “Enhancing Interpersonal Relationships”.
10	Academic Visit organised by Department of Biochemistry on 1 st September 2017
11	Talk by Dr. Kumar Bijoy on importance of management studies.
12	Interactive Session titled “Take a Minute, Change a Life: A Session on Suicide Prevention Awareness”.
13	Department of Mathematics organised Invited talk by Dr. Aparna Mehra on 21 st September 2017.
14	Industrial visit to Transitional Health Science and Technology Institute (THSTI).
15	5 day Interdepartmental sports tournament.
16	One day workshop titled “Communication Skills for career excellence”.
17	One day workshop titled “Musicology: Music Therapy Workshop”.
18	Industrial Visit to AIIMS.
19	Talk was organised by Department of Chemistry on 27 th September 2017
20	Talk on Cyber Security by Mr. Rakshit Tandon.
21	Carrier Guidance Seminar.
22	Mental Health Awareness Week 11 th October to 17 th October 2017 Wherein Combination of Workshop, Street Play, Competitions etc were organised
23	Institutional visit for Educational Purpose to DIPAS.
24	The World Food Day was celebrated. The theme of the event was ‘Change the future of migration- Invest in food security and rural development’ as set by Food and Agricultural Organisation (FAO)
25	Seminar titled “Budding Entrepreneurs.”

26	One day Workshop “Guidance on Study Abroad” in collaboration with TIME .
27	One day educational visit to Jubilant Generics and Chemsys, located in sector 58, Noida.
28	"Anecdotes in Biological Sciences"- Seminar by Dr. S. Laxmi Devi.
29	Talks on National Entrepreneurship Day (9 th November 2017) with Speakers : 1. Dr Manisha Acharya, Director, Operations, Indigram Labs Foundation 2. Team of Network-21 headed by Mr Abhay and Ms Pooja Awasthi
30	One week Para teaching staff skill enhancement Workshop (PTSSEW) from jointly sponsor by IEEE Delhi chapter, UGC and DBT Star College Scheme.
31	Workshop on Virtual Instrumentation in LABVIEW and IoT with Raspberry Pi.
32	Invited talk by Prof. Yogesh Velankar was organised by Department of Mathematics on 3 rd January 2018.
33	Talk was organised by Department of Chemistry on 8 th January 2018.
34	Seminar titled “GST AND IFRS (International financial reporting standards)”.
35	An interactive session on Stress Management. The talk was delivered by Ms. Rashi Ahuja, a senior psychologist and a founding member of ePsychclinic.
36	Interactive career counselling session “Exploring Career Opportunities”.
37	Seminar on "Library Resources and Informational Databases".
38	Department of Biomedical Science organised Lecture by Zoheb Karim on 18 th January 2018.
39	A two day workshop on “Drug Discovery Technology- Computational Approaches in Drug Discovery and Design”.
40	Two day Sports Fest Spardhaa- an inter-college sports competition.
41	Celebrated Saraswati Puja on 22 nd January 2018.
42	Talk on "Jantar Mantar Observatories of India" by Dr. N. Rathnasree, Director of Nehru Planetarium.
43	Seminar was conducted on occasion of Inauguration of Biochemistry Lab 2 by Department of Biochemistry on 25 th January 2018.
44	Talk on “Cervical cancer awareness “.
45	Seminar by Mr Wesley Wojtas was organised by Department of Biomedical science on 1 st February 2018.
46	Seminar on "The Charm of Biochemistry- Scope, Research Applications and Future Prospects" by Dr Suman Kundu.
47	One day Hands-on workshop on python3.
48	15 day Self Defence.
49	Weekly fine-art workshop series on every Saturday. The workshop started from 10 th February 2018 and ended on 14 th April 2018.
50	Talk on “Decoding the Union Budget.

51	Talk titled “Failure is the best thing that can happen to you”.
52	One day workshop on Soap Making.
53	Oxyy healthcare program.
54	Two day trip to Taj Mahal and Bharatpur wildlife sanctuary.
55	Interactive session on Sexual Exploitation with chairperson of Delhi Commission for Women (DCW).
56	Two day Workshop on Mathematica.
57	Alumni Interaction with Ms Palak Parasher (2012-15).
58	Five day Trip to Mcleodganj.
59	A talk on “Journey to CERN”.
60	Technical Fest organised by the Department: Plexsus 2017-18. Theme: Forensic Science – Face To A Case

Annexure VIII

Training for Support Staff

S.No.	Year	Name	Title	Place of Training
1	2017	Mr. Manoj Pathak	Cashless/e- Transactions	Director of Training UTCS, Govt. of NCT of Delhi
2	2017	Mr. Naresh Jairath	Interpersonal Skills Understating Do's and Don'ts in the Workplace	Director of Training UTCS, Govt. of NCT of Delhi
3	2017	Dr. Projes Roy	Interpersonal Skills Creating Leaders	Director of Training UTCS, Govt. of NCT of Delhi
4	2017	Mr. Chaman Giri	Accounts Maters	Director of Training UTCS, Govt. of NCT of Delhi
5	2017	Mr. Ravi	Basic Computer Operations	Director of Training UTCS, Govt. of NCT of Delhi
6	2017	Mr. Shashi Kumar	E-Office	Director of Training UTCS, Govt. of NCT of Delhi
7	2017	Mr. Unni Krishnan	Computer Operations (Advanced Course)	Director of Training UTCS, Govt. of NCT of Delhi
8	2017	Dr. Mohd. Saquib Ansari	International Right to Information Summit	RTI Institute of India, Government of India
9	2017	Dr. Indu Arora	International Right to Information Summit	RTI Institute of India, Government of India
10	2017	Mr. Unni Krishnan	International Right to Information Summit	RTI Institute of India, Government of India
11	2017	Mr. T.N. Ravi	Book Keeping & Accounting, Accounting Standards & strategy to implement Accrual System of Accounting in Government Departments Autonomous Bodies & PSUs	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
12	2017	Mr. Saaket Kumar	Book Keeping & Accounting, Accounting Standards & strategy to implement Accrual System of Accounting in Government Departments Autonomous Bodies & PSUs	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
13	2017	Ms. Preeti Singhal	Procurement Training	Internal Quality Assurance Cell, Bhaskaracharya College of Applied Sciences, University of Delhi
14	2017	Mr. T.N. Ravi	Procurement Training	Internal Quality Assurance Cell, Bhaskaracharya College of Applied Sciences, University of Delhi
15	2017	Mr. Saaket Kumar	Procurement Training	Internal Quality Assurance Cell, Bhaskaracharya College of Applied Sciences, University of Delhi

16	2018	Mr. Prem Pal Singh	Interpersonal skills: Art of Communication	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
17	2018	Mr. Prem Pal Singh	Interpersonal Skills: Art of Communication	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
18	2018	Dr. Projes Roy	Interpersonal Skills : Creating Leaders	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
19	2018	Ms. Sweta Arya	Empowering Women- Self Defense Skills Level -1	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
20	2018	Dr. Alka Vohra Kuanr	Vigilance Matters (Including Disciplinary Proceedings)	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
21	2018	Mr. Manoj Pathak	Pay Fixation (Fixation and Revision of Pay, MACP, Income Tax NPS and Audit)	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
22	2018	Dr. Shruti Banswal	RTI-Act – Capacity Building for Government Employees	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
23	2018	Mr. Shiv Kumar	Basic Computer Operation	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
24	2018	Mr. Shashi Kumar Sharma	E-Office	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
25	2018	Ms. Savitri Gupta	Computer Operations (Advanced Course)	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
26	2018	Mr. T.N. Ravi	E-Governance	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
27	2018	Dr. Suruchi Chawla	Incident Command System Planning and Management in case of Disaster	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
28	2017	Dr. Rekha Mehrotra	Environment and Climate Change	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
29	2018	Dr. Mohd. Saquib Ansari	Rights and Welfare of Persons with Disabilities	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
30	2018	Mr.T.N. Ravi	Accounts Matters (Including Pension, Retirement Benefits, Functions of DDOs, Budget, GFR – 2017, Delegation of Financial power and e-procurement.	National Council for Training & Social Research , NCTSR, Govt. of NCT of Delhi
31	2018	Mr. A.R. Unni Krishnan Nair	RTI –Act – Capacity building for Government employees	Director of Training UTCS, Govt. of NCT of Delhi
32	2018	Ms. Parveen Parve	E-Office	Director of Training UTCS, Govt. of NCT of Delhi
33	2018	Mr. Chhitij Awasthi	Computer Operations (Advanced Course)	Director of Training UTCS, Govt. of NCT of Delhi
34	2018	Dr. Projes Roy	E-Governance	Director of Training UTCS,

				Govt. of NCT of Delhi
35	2018	Mr. Ravi	Basic Computer Operation	Director of Training UTCS, Govt. of NCT of Delhi
36	2018	Dr. Projes Roy	Interpersonal Skills Managing Hours	Director of Training UTCS, Govt. of NCT of Delhi
37	2018	Mr. A.R. Unni Krishnan Nair	RTI –Act – Capacity building (for Non-Gazetted employees)	Director of Training UTCS, Govt. of NCT of Delhi
38	2018	Mr. Shashi Kumar Sharma	E-Office	Director of Training UTCS, Govt. of NCT of Delhi
39	2018	Mr. A.R. Unni Krishnan Nair Mr. Ramprabesh Rai	Personnel & Establishment Matters (including Reservation, CCS (CCA) Rules, MACP, APAR,GPF,LTC & Medical Rules)	Director of Training UTCS, Govt. of NCT of Delhi
40	2018	Mr. Gajender Puri	Basic Computer Operations	Director of Training UTCS, Govt. of NCT of Delhi
41	2018	Ms. Akanksha Dhingra	Empowering Women-Self Defence Skills – Level 1)	Director of Training UTCS, Govt. of NCT of Delhi
42	2018	Ms. Parveen Parve Mr. Shashi Kumar Sharma	Personnel & Establishment Matters (including Reservation, CCS (CCA) Rules, MACP, APAR,GPF,LTC & Medical Rules)	Director of Training UTCS, Govt. of NCT of Delhi
43	2018	Ms. Sweta Arya	Sensitization Programme on Prevention of Atrocities against SC/ST	Director of Training UTCS, Govt. of NCT of Delhi
44	2018	Dr. Projes Roy	Interpersonal Skills: Creating Leader	Director of Training UTCS, Govt. of NCT of Delhi
45	2018	Mr. Ravi	Basic Computer Operations	Director of Training UTCS, Govt. of NCT of Delhi
46	2018	Mr. Ramprabesh Rai	Retirement Planning	Director of Training UTCS, Govt. of NCT of Delhi
47	2018	Mr. Shashi Kumar Sharma	E-OFFICE	Director of Training UTCS, Govt. of NCT of Delhi
48	2018	Mr. A.R. Unni Krishnan Nair	RTI Act- Capacity Building (For Non-Gazetted Employees)	Director of Training UTCS, Govt. of NCT of Delhi
49	2018	Dr. Alka Vohra Kunar Dr. Sadhna Jain	Complaint Handling Mechanism for Sexual Harassment Committee Members	Director of Training UTCS, Govt. of NCT of Delhi
50	2018	Dr. Projes Roy	E-Governance	Director of Training UTCS, Govt. of NCT of Delhi
51	2018	Mr. A.R. Unni Krishnan Nair	Settlement of Pensionary Benefits (including calculation of qualifying service, calculations of personal benefits)	Director of Training UTCS, Govt. of NCT of Delhi
52	2018	Mr. Rishi Kumar	Computer Operations (Advanced Course)	Director of Training UTCS, Govt. of NCT of Delhi
53	2018	Ms. Akanksha Dhingra	Empowering Women-Self Defence Skills- Level –II	Director of Training UTCS, Govt. of NCT of Delhi

Projects by Undergraduate students in College

- **Arduino based conductivity probe** Conductivity Probe is a device used for measuring conductivity of various solutions (salt water, distilled water, sugar water, tap water etc.). An Arduino based with LCD display- to display the probe value conductivity probe is designed to determine the conductivity of various unknown solutions.
- **Non invasive glucose monitor by using near IR Spectroscopy** Non invasive glucose monitor is used to measure the amount of glucose in blood, especially of patients with symptoms or a history of abnormally high or low blood glucose levels. IR sensor work on the principle in which IR LED emits IR radiation and photodiode senses that IR radiation. Photodiode resistance changes according to the amount of IR radiation falling on it, hence the voltage drop across it also changes and by using the voltage comparator we can sense the voltage change and generate the output accordingly. Also the output voltage increases as the glucose concentration increases.
- **Arduino based Digital Thermometer** .Thermometer is a temperature measuring instrument. The use of digital thermometers is increasing as they are accurate and safe to use. In this project, an Arduino based digital thermometer is designed that can be used to monitor the room temperature.
- **Designing of Heart rate sensor using Ardiuno** In this project heart rate sensor, LCD, Arduino (Uno), Resistor (1K), jumper wires and IDE Software for programming of Arduino (uno) were used. By this programming all the connected pins were activated and the result was displayed at LCD. On placing finger on the sensor it detects the pulse rate and shows it on LCD. The principle of this project is PHOTOPLETHYSMOGRAPH which means the change in the volume of the blood in an organ is measured by the changes in the intensity of the light passing through that organ. The light used in this sensor is infrared light that lies between the range of wavelength between 700nm to 1mm and in terms of frequency it lies between 430THz TO 300GHz.
- **Electronic Voting Machine using AVR microcontroller** Polling by electronic voting machines (EVMs) has become a norm during elections. Unlike paper ballot systems, EVMs are safe and reliable as these rules out the possibility of invalid voting. These are more economical and efficient too. Their compact size saves transportation costs. Here we describe the design of an electronic voting machine based on ATmega16A microcontroller. To cast a vote, users need to press the key against the name of the candidate of their choice. The vote is automatically saved in the microcontroller, and simultaneously the LCD shows the message "Thank You", "Press key", "Result", and "No. of votes gained by each candidate".
- **Third Eye for Blind** In this project, it works as an obstacle detector whenever an obstacle comes in the way of blind person it indicates that person via sound producing element (we used a buzzer) like whenever the obstacle is in range of 40 cm the sound of buzzer is at a quite low rate. When it comes in the range of 25 cm it becomes quite faster and when it comes in range of 12cm it becomes at its highest rate. All the LED's will be OFF when the obstacle is far.