

The Annual Quality Assurance Report (AQAR) of the IQAC
(For Affiliated/Constituent Colleges)

Part – A

Data of the Institution

(data may be captured from IQA)

- 1. Name of the Institution** : Bhaskaracharya College of Applied Sciences
- **Name of the Head of the institution** : Dr. Balaram Pani
 - **Designation** : Principal
 - **Does the institution function from own campus** : Yes
 - **Phone No./Alternate phone no.** : 011-25087597, 011-25081015
 - **Mobile No.** : 09213099610, 09654066364
 - **Registered e-mail** : bhaskaracharya.college@gmail.com
 - **Alternate e-mail** : iqac.ugc.bcas@gmail.com
 - **Address** : Bhaskaracharya College of Applied Sciences, Sector- 2, Phase- I
 - **City/Town** : Dwarka
 - **State/UT** : Delhi
 - **Pin Code** : 110075
- 2. Institutional status:**
- **Affiliated / Constituent** : Constituent
 - **Type of Institution** : Co-education/Men/Women: **Co-educational**
 - **Location** : Rural/Semi-urban: **Urban**
 - **Financial Status** : Grants-in aid/ UGC 2f and 12 (B)/ Self-financing
(please specify): UGC 2(f) and UGC 12 (B) * The College is 100% funded from Directorate of Higher Education, Government of Delhi.
 - **Name of the Affiliating University** : University of Delhi
 - **Name of the IQAC Co-ordinator** : Dr. Madhulika Bajpai
 - **Phone no.** : 011-25087597
 - **Alternate phone no.** : 011-25081015
 - **Mobile** : 91-9810370880
 - **IQAC e-mail address** : iqac.ugc.bcas@gmail.com
 - **Alternate Email address** : madhulika.bajpai@bcas.du.ac.in
- 3. Website address** : **www.bcas.du.ac.in**
- Web-link of the AQAR:
(Previous Academic Year) :

https://drive.google.com/file/d/1EaH7ZLt_zCGbHBmfmbKdq3u3VxMmLX4W/view?usp=sharing

4. Whether Academic Calendar prepared during the year?

College follows the Academic Calendar as provided by the University of Delhi

Yes/No....., if yes, whether it is uploaded in the Institutional website: Yes

Weblink: <http://www.du.ac.in/du/index.php?page=academic-calender>

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	A	3.04	2017	October 30, 2017- October 29, 2022
2 nd	NA	NA	NA	NA
3 rd	NA	NA	NA	NA
4 th	NA	NA	NA	NA
5 th	NA	NA	NA	NA

6. Date of Establishment of IQAC:

DD/MM/YYYY: 23/08/2016

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
IQAC meeting (external members) *(Minutes of all the meetings are uploaded on the college website) **Meetings of the internal members of IQAC were regularly held and a record of minutes and ATR is maintained in the college.	04.07.2018	Nine participants and all the stakeholders.
AQAR has been regularly submitted and same is uploaded on the college website as well.	Annually.	All the stakeholders.
College regularly collects feedback from all the students (fulfilling certain criteria) and the parents. The feedback thus received is analysed and necessary actions are taken for concerns raised, if any.	April 11- 25, 2019	All the students and their parents/guardians.
College has a moderation committee both at department and at the college level, which looks after the internal assessment of the students at the end of each semester.	Each semester	All the students.
Student Counselling System has put a mentoring process in place, whereby each teacher (mentor) is assigned to	Monthly as well on a case to case basis.	All the students.

Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
approximately 10-15 students (mentees). Regular interactions are scheduled and the records of the same are maintained. These sessions are meant to address and resolve concerns raised, if any by mentees vis-à-vis any academic/social or personal challenges.		

8. Provide the list of funds by Central/ State Government-

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

*Mentioned below are instalments of grants received during AQAR 2018-19 period:

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Department of Computer Science, Instrumentation, Electronics and Physics	“Star College”	Department of Biotechnology	1 Year (2019–2020)	41,00,000/-
Department of Chemistry (Dr. Deepak Gupta)	“Start-Up Research Grant” (Young Scientist)	Science and Engineering Board (SERB)	2 Years 6 Months(July, 2016 – January, 2019)	400,000/-
Department of Biomedical Sciences (Dr. Uma Dhawan)	“Early Career Research Award”	Science and Engineering Board (SERB)	3 Years (2018–2021)	17,57,000/-
Department of Biomedical Sciences (Dr.Uma Chaudhry)	“National Council for Science and Technology Communication” (NCSTC)	Department of Science and Technology	2 Years (July, 2017 – June, 2019)	400,000/-
Department of Biomedical Sciences (Dr. Uma Chaudhry)	“Proposal for the use of Foldscope as a research tool”	Department of Biotechnology	1 Year 6 Months (April, 2018 – September, 2019)	600,000/-
Department of Chemistry (Dr. Balaram Pani)	-	Board of Research in Nuclear Sciences (BRNS) & Department of Atomic Energy (DAE)	2 Years (December, 2016 – December, 2018)	1,80,000/-

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No :Yes
upload latest notification of formation of IQAC

<https://drive.google.com/file/d/1636ZYC7RKhMLyBelx7ZJbfusJPLAhhBd/view?usp=sharing>

10.No. of IQAC meetings held during the year: 01

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website

Yes/No :Yes

<https://drive.google.com/file/d/1knRh4XViOxM2Ken1TXp1EnP1RqdmrsruJ/view?usp=sharing>

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? No

If yes, mention the amount: NA Year: NA

12. Significant contributions made by IQAC during the current year (maximum five bullets):

- Solar street lamps.
- Rozgar Mela.
- Workshop and seminars.
- Self-defence training programs.
- PNG pipelines in the laboratories.

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year:

S. No.	Plan of Action	Achievements/Outcomes
1.	For the secure and authentic communication among the staff members of the college, individual login IDs may be provided with college or university domain.	Through University of Delhi, all the permanent faculty and staff members have been provided individual login ids.
2.	Individual login IDs may also be provided to students. With the help of authentic IDs students can access their records like attendance, internal assessment, assignments etc.	All the students enrolled in the college have access to their academic records maintained by the college.
3.	Unique Barcodes may be allotted to all the instruments available in various laboratories for keeping records and easy annual stock verifications.	The process is underway.
4.	A centralized electronic storage system may be established to keep records of the proofs of all the activities held in the college.	College is exploring the possibilities.

S. No.	Plan of Action	Achievements/Outcomes
	With the help of this electronic storage system proofs of the activities can be accessed easily at any point of time.	
5.	Digital payment mode will only be used henceforth. Possibility of using GEM will be initiated.	Digital payment is functional in college now. For all purchases made in the college, GEM is being exercised.
6.	Alumni Associations will be further strengthened by means of organizing various interaction programs.	Alumni Committee has initiated the process of getting itself registered.
7.	Alumni placed in various organisations/industry may be requested to help the Placement Cell of the College.	Alumni Committee along with Training and Placement Cell of the college have been working out on the modalities to begin the same.
8.	Introduction of new courses in the college.	Six new courses, B.A. (H) Psychology, B.Sc. (H) Operational Research, B.Sc. (H) Mathematics, B.Sc. (H) Biochemistry, B.Sc. (H) Geology and B.Sc. (H) Environmental Science are approved by the Academic Council, University of Delhi. * Executive Council of University of Delhi has also approved these six courses in July, 2019.
9.	Hostel facility for the students.	College has sent proposal to competent authorities to begin the process as soon as possible.
10	To introduce additional welfare facilities for the staff members.	Though college could not begin any additional welfare facilities for the staff. But, the outreach activities like self-defence training and yoga day celebrations witnessed participation from the family members of the non-teaching staff.
11.	To introduce sensitization drives/programs related to environment, hygiene and contemporary challenges faced by the society.	Several activities in this regard were undertaken and successfully completed. These are duly mentioned in different criteria of AQAR 2018-19.
12.	To conduct outreach programs to address gender empowerment.	College successfully organized several outreach activities. Details of the same are listed in different criteria of AQAR 2018-19.
13.	The process of Academic Audit, Administrative Audit and Transparency Audit may be initiated.	A transparency audit with respect to compliance under section 4 of RTI Act, 2005 was carried out by the college. A committee of seven members was formed. As per the required format, the report was submitted and college received a score of 67%.
14.	Air conditioning of the library.	College has already sent a proposal to funding agencies.
15	Bus pass facility in the college.	College has raised a request with DTC officials for the same. It is being followed up.

14. Whether the AQAR was placed before statutory body? Yes /No: Yes

Name of the statutory body: IQAC Committee Date of meeting(s): 16.09.2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?

Yes/No: No

Date: NA

16. Whether institutional data submitted to AISHE: Yes

Year: 2019

Date of Submission: 01/02/2019

17. Does the Institution have Management Information System?

Yes

No

If yes, give a brief description and a list of modules currently operational. (Maximum 500 words)

College has been using a management system to handle some of its administrative processes. List of the modules currently in use and their brief details are mentioned below:

College Administration Process

This package keeps the records of student information:

- Student List
- Student List Class / Quota Wise
- Student Register.
- Student Main Course
- Entry of Results

Cashier Software with Impressed Accounting

This package keeps the records of basic information cash receipt, deposit, & includes impress entry receipt, payment & daily expenses. Impressed reports include:

- Master List
- Pay Master List
- Receipt List
- Payment List
- Specific Ledger

College account, student fund accounts, salary account etc. Even a consolidated balance sheet can also be generated.

Financial Accounting Software takes care of the following:

- Specific ledger, complete ledger
- Day books, journal book, bank book, cash book

Payroll software with new pension-scheme and income-tax manages the following:

- Salary register
- Salary slips for individual employees

- Email &SMS salary slip
- Bank statement
- Statement of earnings and deduction (head wise)
- CPF&GPF statement
- New-pension scheme and related salary and CPF reports
- Income tax statement
- Salary/wages variance report
- Form – 16
- Annual & monthly U.G.C budget statement
- D.A and pension arrears reports

Pension with Income Tax

This package keeps monthly record of the subscription of all pensioners:

- Monthly record, income-tax reports
- Monthly pensioner register (department wise)
- Monthly register income
- Monthly pensioner individual statement
- Monthly pensioner summary
- Monthly pension slip
- Bank reports
- Annual &monthly U.G.C budget
- Arrear interest reports
- Yearly pensioner summary
- Yearly pensioner register
- Forms-16
- Forms-16AA

Provident Fund

This package keeps monthly record of the subscription of all employees. The following reports are involved in this package:

- Cash books
- CPF/GPF statement
- Statement of account
- Broadsheet
- Loan statement
- Permanent withdrawal statement
- P.F ledger
- Automatic interest calculation.

Leaves Package Report:

Leave ledger

- Leave statement (el)
- Leave statement (cl)
- Leave statement (sl)
- Leave status

Establishment/Service Book:

- Employee register
- Employee list
- Employee list with photo
- Employee complete details
- Department wise list
- Employee's family members dependent
- Home town list of employee's
- Leave travel / home town concession
- Promotion/duties detail
- Personal detail
- Conference detail
- Patent/publications
- Qualification of employee
- Others

TDS Software

The following reports are involved in this package:

- Payment of Terms
- List of income-tax-IX
- List income-tax (16A)
- Form no-IX
- Form no-16A
- Details of tax

Part-B

CRITERION I – CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 Institution has the mechanism for well-planned curriculum delivery and documentation. Explain in 500 words.

All the Departments of Institution strictly follows the academic CBCS curriculum of University of Delhi. The departmental workload and time table was prepared well before the commencement of the academic year and then implemented by the College. The CBCS curriculum is designed in such a way that each theory paper and Laboratory periods are divided into the required number of lectures. The timetable of College is set in such a way that each teacher gets the required number of periods to cover the curriculum with ease. Faculty members were provided enough freedom by the authority to decide the pace and transmission of the curriculum within the time frame and requirements of the University. Departments ensure the regular, rigorous classroom teaching with innovative pedagogical methods. For the effective dissemination of academic content during the teaching-learning process, state of the art technology is used. An academic calendar is prepared by each department as per the academic schedule of University of Delhi. Each Department displays the academic calendar on their Notice-boards. During the academic session, student mentoring meetings are also held which not only ensured the subject specific objectives are imbibed but also resolved other issues raised by students.

The academic plan was translated through lectures, presentations, power–point presentations, assignments, seminars, workshops and discussions. Several minor projects and new experiments are also incorporated from time to time to ensure robust hands on experience to the students. The bridge between the college world and industry is mediated through various kinds of workshops, seminars, expert lectures, industrial visits, alumni interactions etc. By and large, all our endeavours are targeted towards establishing harmony between theoretical assumptions and practical outcomes, focussing on various fields of teaching-learning programs with a specific objective to make education an ethical and socially productive practice.

A highly effective framework that governs the system of evaluation consisting of tests, assignments, projects etc. has been put in place by the collective efforts of the teaching faculties to ensure coverage of curriculum and genuine assessment of the students so as to make them aware of their strengths, skills and even weaknesses in terms of both perception and articulation. In this way, the internal assessment gives the mechanism to time to time assess the level of understanding of the students and identify the problem areas where more emphasis needs to be laid. The Departments used the facility of Automation and Digitalization for effective implementation and documentation of curriculum.

*Many of faculty members have been regularly involved with their respective Departments in the curriculum revision.

Link for CBCS Curriculum

<http://www.du.ac.in/du/index.php?page=syllabi>

Link for academic calendar

<http://www.du.ac.in/du/index.php?page=academic-calender>

1.1.2 Certificate/ Diploma Courses introduced during the Academic year: None is offered in this year.					
Name of the Certificate Course	Name of the Diploma Courses	Date of introduction and duration	focus on employability/ entrepreneurship	Skill development	
1.2 Academic Flexibility					
1.2.1 New programmes/courses introduced during the Academic year : Six courses are approved by Academic Committee, University of Delhi.					
Programme with Code	Date of Introduction	Course with Code		Date of Introduction	
----	-----	1 (CBCS) B.A. (H) Psychology (528) 2 (CBCS) B.Sc. (H) Operational Research 3 (CBCS) B.Sc.(H) Mathematics (563) 4 (CBCS) B.Sc.(H) Biochemistry (553) 5 (CBCS) B.Sc.(H) Geology (560) 6 (CBCS) B.Sc.(H) Environmental Science (NA)		Approved by Academic Committee, University of Delhi	
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the Academic year.					
Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
B.Sc. (Hons.) Biomedical Sciences	Y	NA	2015-16	Y	NA
B.Sc. (Hons.) Botany	Y	NA	2017-18	Y	NA
B.Sc. (Hons.) Chemistry	Y	NA	2017-18	Y	NA
B.Sc. (Hons.) Computer Sciences	Y	NA	2015-16	Y	NA
B.Sc. (Hons.) Electronics	Y	NA	2015-16	Y	NA
B.Sc. (Hons.) Food Technology	Y	NA	2015-16	Y	NA
B.Sc. (Hons.) Instrumentation	Y	NA	2015-16	Y	NA
B.Sc. (Hons.) Micro Biology	Y	NA	2015-16	Y	NA
B.Sc. (Hons.) Physics	Y	NA	2015-16	Y	NA
B.Sc. (Hons.) Polymer Sciences	Y	NA	2015-16	Y	NA
B.Sc. (Hons.) Zoology	Y	NA	2017-18	Y	NA
Already adopted (mention the year) 2015-16					

1.2.3 Students enrolled in Certificate/ Diploma Courses introduced during the year : No Certificate/Diploma Course is offered in this year.		
No of Students	Certificate	Diploma Courses
1.3 Curriculum Enrichment		
1.3.1 Value-added courses imparting transferable and life skills offered during the year: No Value added Course is offered in this year.		
Value added courses	Date of introduction	Number of students enrolled
1.3.2 Field Projects / Internships under taken during the year: There were 44 In-house Projects and 32 summer internships undertaken in which 211 (153+58) students participated. Please refer to Annexure Criterion 1.3.2 for detailed information.		
Project/Programme Title	No. of students enrolled for Field Projects	
1. Nischarin: A novel tumour suppressor protein, that inhibits cell migration and invasion	02	
2. Proteins used in Cosmetics and Cosmetic surgeries	02	
3. Aim A (Aeromonas Immune modulator, discovered in 2018): A novel anti-inflammatory protein secreted by common gut bacterium in zebra fish.	02	
4. Canola Proteins (Rapeseed) Rapeseed, traditionally a oil source explored as a good protein source with a balanced amino-acid profile and potential functional properties such as emulsifying, foaming and gelling abilities.	02	
5. Pisum Sativum proteins: Nutrition that is environmentally friendly and strengthens bio-diversity.	02	
6. Insects as Novel source of protein with high nutrient efficiency.	02	
7. Honeybee protein Royalactin, a 57 Kd protein is similar in structure to Regina, is a mammalian protein, produced in early embryonic development, Role in wound healing and cell regeneration.	02	
8. Thermostable Proteins: Bioengineered Thermostable proteins with tremendous Applications	02	
9. Miraculin: A glycoprotein from berries (Miracle Fruit) with sweet taste , readily soluble, thermostable and a potential sweetner in acidic foods like soft drinks	02	
10. Spirulina , a microalgae as dietary support in long term aspects, like space flights or military mission and anti-inflammatory and anti-oxidant properties	02	

11. Single cell protein: Highly nutritive dried cell of microorganisms as protein supplement in human food and animal feeds	02
12. Chondrocalcin: A pro-collagen molecule, involved in calcium binding to calcify the cartilage	02
13. Protein c19orf10: Protein in the Synovium of patients with a wide variety of arthropathies and its role in health and disease remains to be determined.	02
14. The Psychological and Physical effect of commuting: How transportation has impacted human life	05
15. Brain foods and the effect of nutrients on the functioning of the Brain	06
16. Brain foods and the effect of nutrients on the functioning of the Brain	06
17. Effect of music on the Behaviour and Lives of human beings	06
18. Exploring the relationship between Humans and Nature	03
19. Dreams and EQ: A survey based explorative study	07
20. Healthy Mind, Happy Youth: Exploring the perception of Meditation, approach to Problem-solving and Happiness in Young Adults	01
21. How Sports affects Personality	01
22. Isolation and characterisation of potential Plastic (Polyethylene) degrading bacteria from soil obtained from major landfills in Delhi.	04
23. Designing of questionnaire for Health Care Survey to analyze Sleep Disorders.	07
24. Designing of questionnaire for Survey of Lung Health	05
25. Designing of questionnaire to study the effects of frequent travelling on lifestyle changes and the overall health of people.	07
26. Designing of questionnaire for the impact of gadgets on the health of the Indian Population.	06
27. Preparation of Antiseptic soap using Lycopene isolated from <i>Solanum lycopersicum</i>	06
28. Isolation, Characterisation and Comparative study of Nicotine	04
29. Analysis of NSAID in Ecospirin tablets by spectrophotometric methods.	03
30. Quantitative analysis of Vitamin C and Glucose in <i>Phyllanthus embilica</i> derivatives	02
31. To study the physiochemical characteristics of soil of West Delhi region.	03
32. Extraction and Estimation of Chlorophyll from Medicinal Plants: A comparative study	04
33. Evaluation and comparison of different pouch milk,* Mother diary,*Amul,*Tonned Cow Milk etc.	04
34. Evaluation of different chemicals used in daily used products like hair dyes, soaps, detergents, shampoo, nail polish etc *Mechanism*chemical structures*Advantages*Harmful impact.	04

35. Evaluation of ten different plastic used in daily life in terms of their merits and demerits *Remedies	04
36. Evaluation of different types of bottle and soft drinks in terms of their chemical properties pH, Calories ,Ingredients	04
37. Studies on five medicinal plants and applications	04
38. Chemical analysis of five medicines used in life*Merits *emerits	04
39. Radiations emitting from different electronic devices *Frequencies*How they effect human being *Remedies	04
40. Studies on different types of juices (canned juices, packed juices,fresh juices) pH, Calories ,Ingredients	03
41. Determining the Amylase Activity of Various Bacterialisolates obtained from soil.	02
42. Determining the chemical composition and structure of a <i>Bacillus sp.</i> Biofilm	02
43. Determining the Amylase Activity of Various Bacterialisolates obtained from compost.	02
44. Water quality testing of samples from Dwarka region.	04
Project/Programme Title	No. of students enrolled for Internships
1. Biophysical studies and characterization of cationic gene delivery agents	01
2. Clinical Biochemistry	01
3. Molecular Biology Techniques	01
4. Metabolic Chemistry and Medicinal Biochemistry	01
5. Biomedical Engineering	01
6. Study of antimicrobial activity of Thiazole and Benzothiazole piperazine derivatives on pathogenic bacterial strains	01
7. Cloning and expression of Plasmodium falciparum palmitoyl-S-acyl-transferase-2	01
8. Cloning of Candida albicans genes encoding HAP complex subunits	01
9. New diagnostic approaches for early detection of tuberculosis: non-invasive stool PCR based detection of TB	01
10. Inheritance of plastic response in larval feeding rate of crowding lines of <i>Drosophila Melanogaster</i>	01
11. Techniques	01
12. Worked on various crime cases under the DNA/biology division and result analysis based on short tandem repeats (Extraction, amplification and fragment analysis of DNA for personal identification and paternity testing)	01
13. Green synthesis of silver nanoparticles from <i>Terminilia bellerica</i>	02
14. Green synthesis of Copper nanoparticles and copper – chitosan nanocomposites using <i>Allium Cepa</i> extract as reducing agent	01

15. Green synthesis and characterization of reduced Graphene oxide using Allium cepa extract	03
16. The vocational food analysis Industrial Training	05
17. Processing & Packaging of sprouts and analysis of frozen food products and monitoring of fruits and vegetables.	04
18. Milk processing	14
19. Familiarization to all processes and there management along with packaging of the product	01
20. Performance rating of Concessionaire/contractor/Consultant (DPR)/Project Supervisions and recognition of Best Performers	01
21. Food Safety In Flight Catering Industry	01
22. Processing and Packaging of Wheat Flour and semolina	01
23. Synthesis and characterization of hydrophilic copper selenide decorated grapheme oxide nanocomposite	01
24. In Plant Training	01
25. Processed frozen foods and Fresh fruit& vegetables	02
26. Milk processing	01
27. Protein Purification of Phenylalanine t-RNA Synthetase and enzyme assays.	02
28. Getting familiar with the basic techniques in Biotechnology	01
29. Molecular Biology and Plant Biotechnology Techniques	01
30 Training of Microbiology	02
31 Microbiology and Molecular Biology	01
32 Quality control in dairy products	01

1.4 Feedback System

1.4.1 Whether structured feedback received from all the stakeholders.

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes/ No	Yes/ No	Yes/ No	Yes/ No	Yes/ No
YES	No	No	No	YES

Feedback is taken from students and parents in each semester. The Feedback Forms for students and parents are available on college website under portal IQAC.

Link for college website:

<http://www.bcas.du.ac.in>

Student Feedback Form Link

https://docs.google.com/forms/d/e/1FAIpQLScoN4xqsn-oHB1EAUz4E-fG8062_Sq6ayotM1BOgRvf4HJ6FA/viewform?usp=sf_link

Parents Feedback Form Link

<https://docs.google.com/forms/d/e/1FAIpQLSfXVTWrpXipWBIMXrH3U9zvDPMwYM2WB1j1SV5YMcX8Tvxp-A/viewform>

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

The College's Automation and Digitalization Committee prepared feedback forms for students and parents. These forms are available on college website under portal IQAC. The students and parents provide feedback to faculty/Institution for various attributes at the end of each semester as a cumulative score out of 5. Student feedback includes : 'commitment to teaching', 'interest generated in the class', 'accessibility to students', 'preparation for the lecture', 'communication skills' and 'encouragement to the scholar'. The feedback data is collated into a spreadsheet with various fields or attributes. Data collected from feedback is provided to the respective teachers so that this feedback can be used by them to improve upon their individual parameters for a better delivery, thus ensuring an incessant overall development of the institution. Based on the data, the feedback obtained from students also creates an indirect pressure on the teacher to perform better and maintain regularity in his/her work schedule. This helps the faculty members tweak their delivery methodologies so that maximum learning is ensured in the theory and lab class. In this way, feedback serves a crucial role in refinement of systems and processes as well as in overall development of the institution.

CRITERION II -TEACHING-LEARNING AND EVALUATION**2.1 Student Enrolment and Profile****2.1. 1 Demand Ratio during the year**

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled*
Biomedical Science	46	University of Delhi has centralized admission procedures. All the students apply online and approach college for admission as per the cut off released by the college.	51
Computer Science	46		49
Electronics	46		43
Food Technology	46		46
Instrumentation	46		53
Microbiology	32		42
Physics	32		40
Polymer Science	46		43
Botany	32		45
Chemistry	32		30
Zoology	32		38

TOTAL = 436**TOTAL = 480**

*First Year (2018-19)

2.2 Catering to Student Diversity

2.2.1. Student-Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)		Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018-19	I	480	College offers only UG courses	87*	College offers only UG courses	
	II	443				
	III	277				
	Total	1200				

*permanent + ad hoc faculty (excluding those on leave and deputation)

2.3 Teaching-Learning Process

2.3.1 Percentage of teachers using ICT foreffective teaching with Learning Management Systems (LMS), E-learningresourcesetc. (current year data)

Number of teachers on roll	Number of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
87*	87*	Projectors, Computers, Virtual Lab, Wi-Fi enabled campus, Automated software for attendance and Internal assessment.	11	Nil	Google scholar, YouTube videos/ Documentaries, NPTEL Chapters/online lectures, e-books, Bioinformatics Databases, Power Point Presentations, MATLAB, Scilab, PSPICE, Programming, Graph Plotting, Origin, C++. http://polybcas.blogspot.com/

* permanent + adhoc faculty (excluding those on leave and deputation)

**2.3.2 Students mentoring system available in the institution? Give details.
(maximum 500 words)**

YES

The University Grants Commission has formulated the guidelines on “safety of students” on and off campuses of Higher Educational Institutional (HEI). One of the important components of the guidelines is that all the HEIs should mandatorily put in place a broad based “Students Counselling System” for effective redressal of the problems and challenges faced by the students. In accordance to the UGC directive, a “Students Counselling System” has been constituted in Bhaskaracharya College of Applied Sciences. Students often have to deal with day-to-day challenges ranging from anxiety, fear of change, stress, homesickness, financial issues, adjustment problems, emotional issues and a slew of other academic worries. This system involves teaching faculty members who act as mentors/informal local guardians of students, and attempt to cater to their emotional, intellectual needs and guide them to move up in their career at regular interval of time.

STEP 1: Assigning mentors to students

1. TICs of each department are notified to assign mentors to each student in the department along with the Allied departments.
2. Mentees are thereby assigned to mentors and are notified.

STEP 2: Meeting with mentees

1. All mentors are required to conduct a meeting with assigned mentees regularly as well as on a case to case basis.
2. An attendance sheet is prepared for the same and maintained.
3. The concerns raised by the mentees are recorded and addressed in the sessions.

STEP 3: Report Submission

1. Mentors are required to prepare a report of the meetings conducted, concerns raised by students and corresponding actions taken.
2. Each mentor is required to upload report as per the notified schedule.
3. The meeting of mentors and mentees is held at least once a month.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
1200	82*	1:15 (approx.)

*Mentors

2.4 Teacher Profile and Quality

2.4.1 Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D.
91	87	0	49	71

2.4.2 Honours and recognitions received by teachers

(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Geeta Bhatt	Associate Professor	Appointed as Officiating Director (additional charge) of Non-Collegiate Women Education Board (NCWEB) by University of Delhi. In NCWEB, more than 30,000 girl students from Delhi region get their graduate degree through Non Collegiate format.
2019	Dr. Madhulika Bajpai	Associate Professor	“Meritorious Teacher Award” (March 2019) constituted for College Lecturers given by Directorate of Higher Education, Government of NCT of Delhi.
2019	Dr. Eram Rao	Associate Professor	FSSAI ‘Eat Right Award’ 2018-19 under Professional Category
2019	Mr. Pawan Kumar	Assistant Professor	Transformational Teacher Award 2019 from Sharda University
2018	Dr. Vandita Gupta (as Mentor)	Associate Professor	DuPont Nutri Scholars cash award of Rs. 50,000/-
2018	Dr. N. Vijay Kumar	Assistant Professor	Dr. Radhakrishnan Gold Medal Award -2018 by Global Economic Progress and Research Association (Society registration no. 283, ACT XXVII of 1975), Tamil Nadu, India, on September 22, 2018.

2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
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Annexure 2.5.1

2.5.2 Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The college follows University of Delhi norms for continuous internal evaluation. The students are evaluated at two levels, college and University of Delhi.

In theory papers, 25% component of evaluation is carried out at the college level which is further moderated by department and college moderation committee. The remaining 75% of evaluation is done at the University level by way of semester end examinations. For practicals, in practice, 50% component of evaluation is done internally at the college level. Each department in college follows methods as per their course requirements and in the best interest of students. Some of the methods are mentioned below:

1. Creating awareness of the evaluation schedule through teaching plan.
2. Evaluation methods followed by the faculty members include written tests, presentations, project reports and assignments.
3. The attendance, a part of internal assessment is monitored, updated regularly and uploaded online.
4. Remedial Classes and discussions in mentoring groups are held.
5. The internal assessment marks too are uploaded online and displayed on departmental notice board for redressal /any clarifications sought from students. The final assessment is signed by the students.
6. For practicals, the performance of students is tabulated throughout the semester.
7. Minor projects other than those mentioned in the curriculum are undertaken.

2.5.3 Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Being a constituent college of the University of Delhi, the college follows academic calendar as provided by the University.

(<http://www.du.ac.in/du/index.php?page=academic-calender>).

The academic calendar schedules the commencement and the closure of the semesters as well the conduct of examination. The examination schedule prepared by the University is eventually followed (<http://www.exam.du.ac.in/UG-datesheets.html>). In addition to this, a calendar duly approved by staff council is also proposed for various curricular and extra-curricular activities in the college.

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution

All information is provided in the college prospectus (on college website) available on the link:
<https://drive.google.com/file/d/1XiWFXG5xA9SHwv5USNzEirrNs6L7PszE/view?usp=sharing>

2.6.2 Pass percentage of students for the Year 2017-18

Programme Code	Programme name	Number of students appeared in the final year examination including ex-students	Number of students passed in final semester/year examination	Pass Percentage
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Annexure 2.6.2

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

The online feedback mechanism has been developed for quality enhancement of the college. The feedback forms are provided online on college website (under IQAC tab) for both students and parents https://docs.google.com/forms/d/e/1FAIpQLScoN4xqsn-oHB1EAUz4E-fG8062_Sq6ayotM1BOgRvf4HJ6FA/viewform?usp=sf_link
<https://docs.google.com/forms/d/e/1FAIpQLSfXVTWrpXipWBIMXrH3U9zvDPMwYM2WB1j1SV5YMcX8Tvxp-A/viewform>

The faculty/Institution is awarded points by students/parents for various attributes at the end of each semester on various parameters. Online feedback collection and compilation system makes the feedback available to the respective teacher anonymously which is then used by the teacher to improve upon his/her individual parameters for a better delivery, thus ensuring overall development of the institution.

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION					
3.1 Resource Mobilization for Research					
3.1.1 Research funds sanctioned and received from various agencies, industry and other organisations					
S. No.	Nature of the Project	Duration	Name of the funding agency	Total grant Sanctioned	Amount received during the Academic year
	Major projects				
1.	“Significance of 5-hydroxymethylcytosine in neurodegeneration associated with rapid eye movement sleep deprivation”	3 Years (2018 –2021)	Science and Engineering Board (SERB)	Rs. 40,11,480/-	Rs.17,57,000/-
	Minor Projects				
2.	“Use of Foldscope for the speed identification of microbial load on fresh produce: An inexpensive and point-of-care solution for screening of microbes”	1 Year 6 Months (April, 2018 – September, 2019)	Department of Biotechnology (DBT), Ministry of Science & Technology	Rs. 8,00,000/-	Rs. 6,00,000/-
3.	“Safeguarding immunity and health versus Indiscriminate use of antibiotics: Building medical awareness and capacity for informed choice through multilevel orientation, exhibitions and demonstrations for students, paramedics, drug marketing systems and community”	2 Years (July, 2017 – June, 2019)	Department of Science and Technology (DST)	Rs. 22,72,000/-	Rs. 4,00,000/-
4.	“Spatial Distribution of uranium and associated water quality parameters in groundwater/surface water of six districts (Agra, Mathura, Mahamaya Nagar, Kanshiram Nagar, Etah and Badaun) of Uttar Pradesh”	2 Years (December, 2016 – December, 2018)	Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy (DAE)	Rs. 28,74,000/-	Rs.1,80,000/-
5.	“Synthesis and Post self-assembly functionalization of Re and Ru-based metallacycles and its effects on the Photophysical and electrochemical properties”	2 Years 6 Months (July, 2016 – January, 2019)	Science and Engineering Board (SERB)	Rs.23,29,000/-	Rs. 4,00,000/-

	Interdisciplinary Projects	–	–	–	None this year
	Industry sponsored Projects				
6.	SNF School Education Program in association with Tropicana Essentials Iron	5 Months (January, 2019 –May, 2019)	PepsiCo India Holding Private Limited (Beverages)	Rs. 1,00,000/-	Rs.1,00,000/-
	Projects sponsored by the University/ College	–	–	–	None this year
	Students Research Projects (other than compulsory by the College)	–	–	–	None this year
	International Projects	–	–	–	None this year
	Any other (Specify)				
7.	Star College Scheme for additional courses (Computer Science, Physics, and Electronics and Instrumentation (to be considered as a single Department))	1 Year (2019 –2020)	Department of Biotechnology (DBT), Ministry of Science & Technology	Rs.41,00,000/-	Rs.41,00,000/-
Total		07	07	Rs. 1,64,86,480/-	Rs.75,37,000/- -

3.2 Innovation Ecosystem			
3.2.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year			
S. No.	Title of Workshop/Seminar	Name of the Dept.	Date(s)
Workshops/Seminars Conducted by Departments:			
1.	Recent Trends and Advancements in chemical sciences	Department of Polymer Science	March 29-31, 2019
2.	Good Food for Healthy Life (Wealth from waste)	Department of Food Technology	March 15, 2019
3.	Neuroplasticity: Role in Learning, Memory and Spinal Injury	Department of Biochemistry and Department of Zoology	February 20, 2019

4.	Data Sciences using R Technology	Department of Computer Science	February 19, 2019
5.	Optical Fibre	Department of Physics	February 18, 2019
6.	M-Commerce	Department of Computer Science	January 23, 2019
7.	Internet of Things	Department of Instrumentation	January 10, 2019
8.	Waste Management and Making of Compost	Department of Food Technology	November 28, 2018
9.	Handling and Care of Laboratory Animals	Department of Biomedical Science	October 31–November 01, 2018
10.	Fold scope as Tracking and Detecting Tool for Protein Crystallization	Department of Biochemistry	October 26, 2018
11.	Chocolate Making	Department of Food Technology	October 26, 2018
12.	Portable Spectrophotometer	Department of Chemistry	October 24, 2018
13.	Career in IT after Graduation	Department of Computer Science	October 10, 2018
14.	Digital divide and Role of Social Media	Department of Computer Science	October 9, 2018
15.	Cloud Literacy Day	Department of Computer Science	October 8, 2018
Workshops/Seminars Conducted by Committees/Clubs:			
16.	Women Empowerment	Women Development Cell	February 14, 2019

17.	Opportunities in Sciences, Challenges and Way Forward	Training and Placement Cell	October 05, 2018
18.	Transforming Body & Soul Through Yoga	Yoga Club	August 31, 2018
19.	Himmat Plus App	Women Development Cell	August 14, 2018

3.2.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

	Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
1.	A robust biofilm forming strain of Bacillus licheniformis isolated from air: Studies related to colony morphology and antibiotic resistance patterns”	Teacher:Dr. Ruchi Gulati Marwah Students: Ms. Tanu Bansal and Mr. Anirban Adhikary	“International Conference on Changing Environment: Understanding the Emerging Challenges and their Management Strategies” (Kalindi College, University of Delhi)	April 11-12, 2019	Best research paper award
2.	Wealth from waste	Students: Ms. Samta and Ms. Srasthi	PFND AI	March 15, 2019	Product Developed from Food Waste
3.	Baked multigrain vegetable Nachos (Trios)	Teacher:Dr. Vandita Gupta Students: Mr. KinshukArora, Mr. Tanesh, Ms. Nikita Arya and Ms. Kanika Sindhi	DuPont	December 10, 2018	“Out of the Box” bakery innovation category

4.	Study of mechanical properties of vegetable oil-based polymer and PVA blend	Students: Ms. Neema Kushwaha, Ms. Nidhi Bijalwan and Mr. Shantanu Pandey	Atma Ram Sanatan Dharma College, (University of Delhi)	September 27–28, 2018	Best research paper award
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3.2.3 No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored by
None this year		
Name of the Start-up	Nature of Start-up	Date of commencement
None this year		

3.3 Research Publications and Awards

3.3.1 Incentive to the teachers who receive recognition/awards

S. No.	State	National	International
1.	Dr.Madhulika Bajpai, Meritorious Teacher Award (March, 2019) by Directorate of Higher Education, Government of National Capital Territory (NCT) of Delhi	None this year	None this year
2.	Dr. Geeta Bhatt# Appointed as Officiating Director (June, 2019) of Non-Collegiate Women Education Board (NCWEB) by University of Delhi		

#Recognition awarded by University of Delhi

3.3.2 Ph. Ds awarded during the year (*applicable for PG College, Research Center*)

Name of the Department	No. of Ph.Ds Awarded
Our College is an Under-Graduate (UG) College	

3.3.3 Research Publications in the Journals notified on UGC website during the year (Refer Annexure-3 for details)

	Department	No. of Publication	Average Impact Factor, if any
National	Department of Biomedical Science	02	0.246
	Department of Chemistry	01	
	Department of Food Technology	01	
	Department of Microbiology	01	
	Department of Polymer Science	04	
	Department of Zoology	01	
International	Department of Biomedical Science	03	1.819
	Department of Chemistry	03	
	Department of Botany	01	
	Department of Computer Science	02	
	Department of Food Technology	02	
	Department of Instrumentation	03	
	Department of Microbiology	05	
	Department of Physics	06	
	Department of Polymer Science	15	
	Department of Zoology	01	

3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year (Refer Annexure-3 for details)

Department	No. of publication
Department of Botany	01
Department of Computer Science	04
Department of Electronics	02
Department of Food Technology	08
Department of Human Communication	02
Department of Instrumentation	08
Department of Polymer Science	07

3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

S. No.	Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations
1.	A Review on Nutritional value, Functional properties and Pharmacological application of Perilla (Perilla Frutescens L.) (international)	Dr. Meenakshi Garg	Biomedical & Pharmacology Journal	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
2.	Complex permittivity, permeability, magnetic and microwave absorbing properties of Ni ²⁺ substituted mechanically milled U-type hexaferrites	Mr. Sandeep Kumar	J. Alloys Compd.	2019	4	Bhaskaracharya College of Applied Sciences, University of Delhi	4
3.	Cost effective Fe/NG/PMMA nanocomposites for high-performance microwave absorbing applications	Mr. Sandeep Kumar	Mater. Res. Express	2019	1	Bhaskaracharya College of Applied Sciences, University of Delhi	1
4.	Swift heavy-ions irradiated nano-magnetite/exfoliated-nanographite/polymethyl methacrylate nanocomposites with excellent microwave-absorption performance	Mr. Sandeep Kumar	Materials Letters	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
5.	<u>Magnetic and microwave absorption properties of Zn²⁺-Ti⁴⁺ substituted U-type hexaferrites</u>	Mr. Sandeep Kumar	Physica B: Condensed Matter	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
6.	A comparative study of electron-impact cross sections of C ₄ F ₆ isomers from 15 to 5000 eV	Dr. Anand Bharadvaja	Phys. Plasmas	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
7.	Vibrationally-resolved excitation and dissociation collision strengths of AlO ⁺ by electron-impact using the R-matrix method	Dr. Anand Bharadvaja	The European Physical Journal D	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0

8.	Ethambutol targets the glutamate racemase of Mycobacterium tuberculosis – an enzyme involved in peptidoglycan biosynthesis	Dr. Uma Chaudhry	Applied Microbiology Biotechnology	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
9.	Assessment of above and below ground carbon pools in a semi-arid forest ecosystem of Delhi, India	Dr. Ankita Bidalia	Ecological Processes	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
10.	Heavy Metal Neurotoxins Induce ALS-Linked TDP-43 Pathology	Dr. Uma Dhawan	Toxicological Sciences	2019	2	Bhaskaracharya College of Applied Sciences, University of Delhi	2
11.	Corrosion inhibition by green synthesized inhibitor: 4,4'-(1,4Phenylene) bis (6-amino-3-methyl-2,4dihydropyrano [2,3-C] pyrazole-5 carbonitrile) for mild steel in 0.5 M H ₂ SO ₄ solution	Dr. Sampat Singh Chauhan	Journal of Bio-and Tribo-Corrosion	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
12.	Microbial contaminants in commercial beverages: health concerns and suggestive preservative methods	Dr. Vijay K. Nalla	Research and Reviews: A Journal of Microbiology and Virology	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
13.	Bacillus sp. (in: Bacteria) strain bcasdu2018/01 16S Ribosomal RNA Gene, Partial Sequence	Dr. Ruchi G. Marwah	ncbi.nlm.nih. Gov	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
14.	Bacillus sp. (in: Bacteria) strain bcasdu2018/01 16S Ribosomal RNA Gene, Partial Sequence	Dr. Purnima Anand	ncbi.nlm.nih. Gov	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
15.	Chemically modified optical fibers in advanced technology: An overview	Dr. S. K. Shukla	Optics and Laser Technology	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0

16.	Thermo-catalytic conversion of waste polyethene bags into value added products	Dr. S. K. Shukla	Indian Journal of Chemical Technology	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
17.	Removal of methyl orange over TiO ₂ /polyacrylamide hydrogel	Dr. S. K. Shukla	Materials Today: Proceedings	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
18.	Non-enzymatic potentiometric malathion sensing over chitosan-grafted polyaniline hybrid electrode	Dr. S. K. Shukla	Journal of Materials Science	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
19.	Tuning the Electronic Band Alignment Properties of TiO ₂ Nanotubes by Boron Doping	Dr. Sidhharth Sirohi	Results in Physics	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
20.	Eco-friendly synthesis of PET-based polymeric plasticiser and its application in nitrile-PVC rubber blends	Dr. Sidhharth Sirohi	Indian Chemical Engineer	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
21.	Eco-friendly synthesis of PET-based polymeric plasticiser and its application in nitrile-PVC rubber blends	Dr. Krishna Dutt	Indian Chemical Engineer	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
22.	Thermo-catalytic conversion of waste polyethene bags into value added products	Dr. Anil Barak	Indian Journal of Chemical Technology	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
23.	Removal of methyl orange over TiO ₂ /polyacrylamide hydrogel	Dr. Anil Barak	Materials Today: Proceedings	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
24.	Eco-friendly synthesis of PET-based polymeric plasticiser and its application in nitrile-PVC rubber blends	Dr. Ratyakshi	Indian Chemical Engineer	2019	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0

25.	Surfactant-free nanoencapsulation using reactive oligomers obtained by reversible addition fragmentation chain transfer polymerization of styrene and maleic anhydrid	Dr. Sidhharth Sirohi	Applied Nanoscience	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
26.	Ag decorated silica nanostructures for surface plasmon enhanced photocatalysis	Dr. Sidhharth Sirohi	RSC Advances	2018	02	Bhaskaracharya College of Applied Sciences, University of Delhi	01
27.	Development and Characterization of Polyvinyl Chloride-Graphite Membrane	Dr. Anil Barak	Indian Journal of Chemical Technology	2018	2	Bhaskaracharya College of Applied Sciences, University of Delhi	0
28.	Biosimilars as therapeutic agents against neurodegenerative diseases – a focus on multiple sclerosis	Dr. Uma Chaudhry	Modern Applications of Bioequivalence and Bioavailability (IF: NA)	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
29.	Selection strategy for shortlisting potential candidates for the development of Biosimilars	Dr. Uma Chaudhry	DU Journal of undergraduate research and innovation	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
30.	Green synthesis and corrosion inhibition study of 2-amino-N'-(thiophen-2-yl) methylene) benzohydrazide	Dr. Balaram Pani	New Journal of Chemistry	2018	10	Bhaskaracharya College of Applied Sciences, University of Delhi	9
31.	Biosimilars as therapeutic agents against neurodegenerative diseases-A focus on multiple sclerosis	Dr. Balaram Pani	Modern Applications of Bioequivalence & Bioavailability	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
32.	Ag Decorated silica nanostructures for surface plasmon enhanced photocatalysis	Dr. Balaram Pani	RSC Advances	2018	2	Bhaskaracharya College of Applied Sciences, University of Delhi	1

33.	Comparative Study of OpenNebula, CloudStack, Eucalyptus and OpenStack	Mr. Bhavya Deep	International Journal of Distributed and Cloud Computing	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
34.	Comparative Study of OpenNebula, CloudStack, Eucalyptus and OpenStack	Mr. Parveen Kumar	International Journal of Distributed and Cloud Computing	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
35.	Physico-chemical, Textural and Crystallinity Properties of Oxidized, Cross-linked and Dual-modified White Sorghum Starch	Dr. Roshan Lal	International Food Research Journal	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
36.	Current Scenario and Future Draft for Healthy Indian School Canteen	Dr. Roshan Lal	Indian Journal of School Health & Wellbeing	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
37.	Power generation by algal microbial fuel cell along with simultaneous treatment of sugar industry wastewater	Dr. Vijay K. Nalla	Journal of Bio-Processing & Bio-Techniques	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
38.	Ag decorated silica nanostructures for surface plasmon enhanced photocatalysis.	Dr. Ratyakshi	RSC Advances	2018	02	Bhaskaracharya College of Applied Sciences, University of Delhi	01
39.	Opto-Chemical Glucose Sensing Over NiO/polyaniline Hybrid Matrix Using Optical Fiber Approach	Dr. S. K. Shukla	Optik	2018	02	Bhaskaracharya College of Applied Sciences, University of Delhi	01
40.	Synthesis and Humidity Sensing Property of α -Fe ₂ O ₃ And Polyaniline	Dr. S. K. Shukla	Materials Today: Proceedings	2018	01	Bhaskaracharya College of Applied Sciences, University of Delhi	0

41.	Integrated Approach for Efficient Humidity Sensing Over Zinc Oxide and Polypyrrole Composite	Dr. S. K. Shukla	Materials Science & Engineering C	2018	01	Bhaskaracharya College of Applied Sciences, University of Delhi	0
42.	Synthesis and Humidity Sensing Properties of NiO Intercalated Polyaniline Nanocomposite	Dr. S. K. Shukla	Polymer-Plastics Technology and Engineering	2018	01	Bhaskaracharya College of Applied Sciences, University of Delhi	0
43.	Electrochemical Urea Sensing Over Polyaniline Grafted Chitosan Copolymer	Dr. S. K. Shukla	Materials Today: Proceedings	2018	01	Bhaskaracharya College of Applied Sciences, University of Delhi	01
44.	Development and Characterization of Polyvinyl Chloride-Graphite Membrane	Dr. S. K. Shukla	Indian Journal of Chemical Technology	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
45.	Study of Morphological and Mechanical Properties of PBT/PTT Blends and Their Nanocomposites and Their Correlation	Dr. Susmita Dey Sadhu	Arab J Sci Eng.	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
46.	Low resistivity of pulsed laser deposited Cd _x Zn _{1-x} O thin films	Dr. Basant Saini	Ceramics International	2018	09	Department of Electronic Science University of Delhi, New Delhi	09
47.	Spectral Interrogation of ZnO thin films for Lossy Mode Resonance Sensors	Dr. Geeta Bhatt	Advanced Science Letters	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
48.	Spectral Interrogation of ZnO thin films for Lossy Mode Resonance Sensors	Dr. Anil Kumar	Advanced Science Letters	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
49.	Host dependent expression of lactose (lac) promoter in azotobacter vinelandii and streptomycin (str) promoter in azorhizobium caulinodans	Dr. Anil Bali	Asian Journal of Microbiology, Biotechnology & Environmental Sciences	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0

50.	Selected kinematics of upper punches, middle punches and lower punches of Karate- A comparative study	Dr. Anil Bali	DU Journal of Undergraduate Research and Innovation	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0
51.	Synthesis, characterization and self-assembly studies of dendron-based novel non-ionic amphiphiles	Dr. Shvetambri	New Journal of Chemistry	2018	0	Bhaskaracharya College of Applied Sciences, University of Delhi	0

3.3.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)

S. No.	Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
1.	A Review on Nutritional value, Functional properties and Pharmacological application of Perilla (Perilla Frutescens L.)	Dr. Meenakshi Garg	Biomedical & Pharmacology Journal	2019	5	0	Bhaskaracharya College of Applied Sciences, University of Delhi
2.	Complex permittivity, permeability, magnetic and microwave absorbing properties of Ni ²⁺ substituted mechanically milled U-type hexaferrites	Mr. Sandeep Kumar	J. Alloys Compd.	2019	4	4	Bhaskaracharya College of Applied Sciences, University of Delhi
3.	Cost effective Fe/NG/PMMA nanocomposites for high-performance microwave absorbing applications	Mr. Sandeep Kumar	Mater. Res. Express	2019	4	1	Bhaskaracharya College of Applied Sciences, University of Delhi
4.	Swift heavy-ions irradiated nano-magnetite/exfoliated-nanographite/polymethylmetacrylate nanocomposites with excellent microwave-absorption performance	Mr. Sandeep Kumar	Materials Letters	2019	4	0	Bhaskaracharya College of Applied Sciences, University of Delhi
5.	<u>Magnetic and microwave absorption properties of Zn²⁺-Ti⁴⁺ substituted U-type hexaferrites</u>	Mr. Sandeep Kumar	Physica B: Condensed Matter	2019	4	0	Bhaskaracharya College of Applied Sciences, University of Delhi
6.	A comparative study of electron-impact cross sections of C4F6 isomers from 15 to 5000 eV	Dr. Anand Bharadvaja	Phys. Plasmas	2019	4	0	Bhaskaracharya College of Applied Sciences, University of Delhi

7.	Vibrationally-resolved excitation and dissociation collision strengths of AIO+ by electron-impact using the R-matrix method	Dr. Anand Bharadvaja	The European Physical Journal D	2019	4	0	Bhaskaracharya College of Applied Sciences, University of Delhi
8.	Ethambutol targets the glutamate racemase of Mycobacterium tuberculosis – an enzyme involved in peptidoglycan biosynthesis	Dr. Uma Chaudhry	Applied Microbiology Biotechnology	2019	9	0	Bhaskaracharya College of Applied Sciences, University of Delhi
9.	Assessment of above and below ground carbon pools in a semi-arid forest ecosystem of Delhi, India	Dr. Ankita Bidalia	Ecological Processes	2019	3	0	Bhaskaracharya College of Applied Sciences, University of Delhi
10.	Heavy Metal Neurotoxins Induce ALS-Linked TDP-43 Pathology	Dr. Uma Dhawan	Toxicological Sciences	2019	11	2	Bhaskaracharya College of Applied Sciences, University of Delhi
11.	Corrosion inhibition by green synthesized inhibitor: 4,4'-(1,4Phenylene) bis (6-amino-3-methyl-2,4dihydropyrano [2,3-C] pyrazole-5 carbonitrile) for mild steel in 0.5 M H2SO4 solution	Dr. Sampat Singh Chauhan	Journal of Bio-and Tribo-Corrosion	2019	7	0	Bhaskaracharya College of Applied Sciences, University of Delhi
12.	Microbial contaminants in commercial beverages: health concerns and suggestive preservative methods	Dr. Vijay K. Nalla	Research and Reviews: A Journal of Microbiology and Virology	2019	1	0	Bhaskaracharya College of Applied Sciences, University of Delhi
13.	Bacillus sp. (in:Bacteria) strain bcasdu2018/01 16S Ribosomal RNA Gene, Partial Sequence	Dr. Ruchi G. Marwah	ncbi.nlm.nih.gov	2019	16	0	Bhaskaracharya College of Applied Sciences, University of Delhi
14.	Bacillus sp. (in:Bacteria) strain bcasdu2018/01 16S Ribosomal RNA Gene, Partial Sequence	Dr. Purnima Anand	ncbi.nlm.nih.gov	2019	1	0	Bhaskaracharya College of Applied Sciences, University of Delhi
15.	Chemically modified optical fibers in advanced technology: An overview	Dr. S. K. Shukla	Optics and Laser Technology	2019	15	0	Bhaskaracharya College of Applied Sciences, University of Delhi
16.	Thermo-catalytic conversion of waste polyethene bags into value added products	Dr. S. K. Shukla	Indian Journal of Chemical Technology	2019	15	0	Bhaskaracharya College of Applied Sciences, University of Delhi

17.	Removal of methyl orange over TiO ₂ /polyacrylamide hydrogel	Dr. S. K. Shukla	Materials Today: Proceedings	2019	15	0	Bhaskaracharya College of Applied Sciences, University of Delhi
18.	Non-enzymatic potentiometric malathion sensing over chitosan-grafted polyaniline hybrid electrode	Dr. S. K. Shukla	Journal of Materials Science	2019	15	0	Bhaskaracharya College of Applied Sciences, University of Delhi
19.	Tuning the Electronic Band Alignment Properties of TiO ₂ Nanotubes by Boron Doping	Dr. Sidhharth Sirohi	Results in Physics	2019	2	0	Bhaskaracharya College of Applied Sciences, University of Delhi
20.	Eco-friendly synthesis of PET-based polymeric plasticiser and its application in nitrile-PVC rubber blends	Dr. Sidhharth Sirohi	Indian Chemical Engineer	2019	2	0	Bhaskaracharya College of Applied Sciences, University of Delhi
21.	Eco-friendly synthesis of PET-based polymeric plasticiser and its application in nitrile-PVC rubber blends	Dr. Krishna Dutt	Indian Chemical Engineer	2019	8	0	Bhaskaracharya College of Applied Sciences, University of Delhi
22.	Thermo-catalytic conversion of waste polyethene bags into value added products	Dr. Anil Barak	Indian Journal of Chemical Technology	2019	1	0	Bhaskaracharya College of Applied Sciences, University of Delhi
23.	Removal of methyl orange over TiO ₂ /polyacrylamide hydrogel	Dr. Anil Barak	Materials Today: Proceedings	2019	1	0	Bhaskaracharya College of Applied Sciences, University of Delhi
24.	Eco-friendly synthesis of PET-based polymeric plasticiser and its application in nitrile-PVC rubberblends	Dr. Ratyakshi	Indian Chemical Engineer	2019	5	0	Bhaskaracharya College of Applied Sciences, University of Delhi
25.	Surfactant-free nanoencapsulation using reactive oligomers obtained by reversible addition fragmentation chain transfer polymerization of styrene and maleic anhydride	Dr. Sidhharth Sirohi	Applied Nanoscience	2018	2	0	Bhaskaracharya College of Applied Sciences, University of Delhi
26.	Ag decorated silica nanostructures for surface plasmon enhanced photocatalysis	Dr. Sidhharth Sirohi	RSC Advances	2018	2	01	Bhaskaracharya College of Applied Sciences, University of Delhi
27.	Development and Characterization of Polyvinyl Chloride-Graphite Membrane	Dr. Anil Barak	Indian Journal of Chemical Technology	2018	1	0	Bhaskaracharya College of Applied Sciences, University of Delhi

28.	Biosimilars as therapeutic agents against neurodegenerative diseases – a focus on multiple sclerosis	Dr. Uma Chaudhry	Modern Applications of Bioequivalence and Bio-availability	2018	9	0	Bhaskaracharya College of Applied Sciences, University of Delhi
29.	Selection strategy for shortlisting potential candidates for the development of Biosimilars	Dr. Uma Chaudhry	DU Journal of under-graduate research and innovation	2018	9	0	Bhaskaracharya College of Applied Sciences, University of Delhi
30.	Green synthesis and corrosion inhibition study of 2-amino-N'-(thiophen-2-yl) methylene) benzohydrazide	Dr. Balamam Pani	New Journal of Chemistry	2018	5	9	Bhaskaracharya College of Applied Sciences, University of Delhi
31.	Biosimilars as therapeutic agents against neurodegenerative diseases- A focus on multiple sclerosis	Dr. Balamam Pani	Modern Applications of Bioequivalence & Bioavailability	2018	5	0	Bhaskaracharya College of Applied Sciences, University of Delhi
32.	Ag Decorated silica nanostructures for surface plasmon enhanced photocatalysis	Dr. Balamam Pani	RSC Advances	2018	5	1	Bhaskaracharya College of Applied Sciences, University of Delhi
33.	Physico-chemical, Textural and Crystallinity Properties of Oxidized, Cross-linked and Dual-modified White Sorghum Starch	Dr. Roshan Lal	International Food Research Journal	2018	4	0	Bhaskaracharya College of Applied Sciences, University of Delhi
34.	Current Scenario and Future Draft for Healthy Indian School Canteen	Dr. Roshan Lal	Indian Journal of School Health & Wellbeing	2018	4	0	Bhaskaracharya College of Applied Sciences, University of Delhi
35.	Power generation by algal microbial fuel cell along with simultaneous treatment of sugar industry wastewater	Dr. Vijay K. Nalla	Journal of Bio-Processing & Bio-Techniques	2018	1	0	Bhaskaracharya College of Applied Sciences, University of Delhi
36.	Ag decorated silica nanostructures for surface plasmon enhanced photocatalysis	Dr. Ratyakshi	RSC Advances	2018	5	1	Bhaskaracharya College of Applied Sciences, University of Delhi
37.	Opto-Chemical Glucose Sensing Over NiO/polyaniline Hybrid Matrix Using Optical Fiber Approach	Dr. S. K. Shukla	Optik	2018	15	1	Bhaskaracharya College of Applied Sciences, University of Delhi
38.	Synthesis and Humidity Sensing Property of α -Fe ₂ O ₃ And Polyaniline	Dr. S. K. Shukla	Materials Today: Proceedings	2018	15	0	Bhaskaracharya College of Applied Sciences, University of Delhi

39.	Integrated Approach for Efficient Humidity Sensing Over Zinc Oxide and Polypyrrole Composite	Dr. S. K. Shukla	Materials Science & Engineering C	2018	15	0	Bhaskaracharya College of Applied Sciences, University of Delhi
40.	Synthesis and Humidity Sensing Properties of NiO Intercalated Polyaniline Nanocomposite	Dr. S. K. Shuka	Polymer-Plastics Technology and Engineering	2018	15	0	Bhaskaracharya College of Applied Sciences, University of Delhi
41.	Electrochemical Urea Sensing Over Polyaniline Grafted Chitosan Copolymer	Dr. S. K. Shukla	Materials Today: Proceedings	2018	15	01	Bhaskaracharya College of Applied Sciences, University of Delhi
42.	Development and Characterization of Polyvinyl Chloride-Graphite Membrane	Dr. S.K. Shukla	Indian Journal of Chemical Technology	2018	15	0	Bhaskaracharya College of Applied Sciences, University of Delhi
43.	Study of Morphological and Mechanical Properties of PBT/PTT Blends and Their Nanocomposites and Their Correlation	Dr.Susmita Dey Sadhu	Arab J Sci Eng.	2018	11	0	Bhaskaracharya College of Applied Sciences, University of Delhi
44.	Low resistivity of pulsed laser deposited Cd _x Zn _{1-x} O thin films	Dr. Basant Saini	Ceramics International	2018	2	09	Department of Electronic Science University of Delhi, New Delhi
45.	Spectral Interrogation of ZnO thin films for Lossy Mode Resonance Sensors	Dr. Geeta Bhatt	Advanced Science Letters	2018	2	0	Bhaskaracharya College of Applied Sciences, University of Delhi
46.	Spectral Interrogation of ZnO thin films for Lossy Mode Resonance Sensors	Dr. Anil Kumar	Advanced Science Letters	2018	4	0	Bhaskaracharya College of Applied Sciences, University of Delhi
47.	Synthesis, characterization and self-assembly studies of dendron-based novel non-ionic amphiphiles	Dr.Shvetambri	New Journal of Chemistry	2018	7	0	Bhaskaracharya College of Applied Sciences, University of Delhi

3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year:(Annexure-3 for more details)

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	09	76	10	15
Presented papers	09	11	00	00
Resource Persons	00	14	02	00

3.4 Extension Activities

3.4.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

S. No.	Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers co-ordinated such activities	Number of students participated in such activities
1.	A visit to the Directorate of Mushroom Research (DMR), Solan, Himachal Pradesh on March 17, 2019	Department of Botany, BCAS	03	35
2.	A visit to the Central Potato Research Institute (CPRI), Shimla, Himachal Pradesh on March 16, 2019	Department of Botany, BCAS	03	35
3.	A visit to the Cyber Prevention, Awareness & Detection Centre (CyPAD) of Delhi Police and National Cyber Forensic Lab, MHA during their inauguration on February 18, 2019 at Sector 16, Dwarka, Delhi	Website Committee, BCAS	02	27
4.	An Industry interaction visit of students to the "AI INDIA-2019" on February 04, 2019 at Pragati Maidan.	Department of Computer Science	02	20
5.	"One day workshop on Foldscope" on February 02, 2019	"Department of Biomedical Sciences and Department of Biochemistry of BCAS" in collaborated with "Acharya Narendra Dev College"	03	09
6.	<u>SNF@School</u>	"Department of Food Technology" in collaboration with "PEPSICO India Holding Pvt. Ltd"	02	21
7.	An educational visit to "Solid State Physics Laboratory (SSPL-DRDO, New Delhi)" on October 25, 2018	Department of Physics	02	15

8.	“Pesticide Awareness for the school students” on October 22, 2018	“Department of Bio-Medical Science” in collaboration with “Sarvodaya Bal Vidyalaya, Matiala, Delhi”	01	07
9.	“Food Safety & Food Nutrition” on October 12, 2018	“Department of Food Technology” in collaboration with “Government Co-Ed Senior Secondary School, Sector-2, Dwarka, New Delhi”	03	10
10.	An educational visit to Aravalli Biodiversity Park, Vasant Vihar, New Delhi on October 06, 2018	Department of Botany	03	38
11.	An educational visit to “CSIR-NPL” on September 28, 2018	Department of Physics	04	40
12.	A visit to CSIR- Institute of Genomics & Integrative Biology, Mathura Road, New Delhi on September 27, 2018 on the occasion of the CSIR open day	Department of Biomedical Science	01	13
13.	“World Rose Day for Cancer patients” on September 24, 2018	“Department of Microbiology” in collaboration with “Manipal Hospital, Dwarka, New Delhi”	06	20
14.	An educational visit to National Brain Research Institute (NBRC), Manesar, Haryana on September 20, 2018	Department of Botany	03	15
15.	“Industrial Visit” on September 19, 2018	“Department of Instrumentation” in collaboration with “Excel Technologies”	03	25
16.	“Industrial Visit” on August 27, 2018	“Department of Instrumentation” in collaboration with “Aimil Instrumentation & Technology”	02	18
17.	Research Study on students’ perception about Teachers, Peers and Institution on August 27, 2018	Department of Psychology, Christ University, Bangalore	01	50
18.	A visit to Nehru Planetarium to attend a seminar and its exploration on August 11, 2018	“Astronomy Club, BCAS”	01	17

19.	“Self Defence Training Program” during July 02-12, 2018 and October 01–12, 2018	“Women Development Cell” in collaboration with “Delhi Police”	NA	112
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3.4.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

S. No.	Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
1.	“50-meter Pistol Junior Men (Team Event)” 62 nd National Championship Competitions (NSCC) on December 3, 2018.	Gold Medal	62 nd National Championship Competitions (NSCC)	01
2.	“10-meter Air Pistol-Men (Team Event)” in All India Inter University Shooting Championship (2018-19) held at Guru Nanak Dev University, Amritsar on November 06, 2018.	Silver Medal	All India Inter University Shooting Championship (2018-19) held at Guru Nanak Dev University, Amritsar	01
3.	Presented a research paper on “Preparation and mechanical properties of vegetable oil-based polymer and PVA blend” on September 27–28, 2018	Best research paper award	Atma Ram Sanatan Dharma College (University of Delhi)	03
4.	“Debate competition” held on September 24, 2018	First prize	Regional Centre for Biotechnology, Faridabad	01
5.	Presentation on “Why Ozone, Why Today?” held during “International Ozone Day” at Delhi Secretariat on September 17, 2018	Appreciation Award	Department of Environment (Government of NCT of Delhi)	03
6.	Inquizitive in Astroid	1 st Position	Kalindi College (University of Delhi)	02

3.4.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

S. No.	Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
1.	Changing Opinion about Gender	“Gender Sensitization Committee, BCAS”	“Slogan Writing Competition” on January 21, 2019	NA	26

2.	Voter Awareness	“National Service Scheme (NSS) Cell, BCAS”	“Voter Enrolment” on September 27-28, 2018	NA	100
3.	Gender Inequality	“Gender Sensitization Committee, BCAS”	Collage-making competition on “Spectrum of Gender” on September 24, 2018	NA	6
4.	Need of Gender Sensitization	“Gender Sensitization Committee, BCAS”	A short talk competition to select “Gender Champions” of the College on August 29, 2018	NA	6
5.	SwachhataPakhwara	“National Service Scheme (NSS) Cell, BCAS”	Cleanliness Drive at Mangolpuri (adopted village) and Dwarka, Delhi during August 03-16, 2018	NA	101
6.	Women Safety	“Women Development Cell” in collaboration with “Delhi Police”	“Self Defence Training Program” during July 02-12, 2018 and October 01-12, 2018	NA	70

3.5 Collaborations

3.5.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

S. No.	Nature of Activity	Participant	Source of financial support	Duration
1.	Data Science with R Language	Department of Computer Science & DUCAT	Sponsored by External Agency	February 19, 2019
2.	M-Commerce	Department of Computer Science & ICT Academy	Sponsored by External Agency	January 23, 2019

3.	Awareness drive on Cervical Cancer	Department of Biomedical Science and Manipal Hospitals	DBT Star College Scheme	January 21, 2019
4.	Internet of Things	Department of Instrumentation & DUCAT	Sensor Society, Department of Instrumentation	January 10, 2019
5.	Workshop on “Handling and Care of Laboratory Animals” organized by the Department of Biomedical Science in association with CLAR, SLS, JNU	75 students from various colleges, Universities and institutes	DBT Star College Scheme	October 31 – November 01, 2018
6.	Workshop on Foldscape as Tracking and Detecting Tool for Protein Crystallization	Department of Biochemistry and International Centre for Genetic Engineering and Biotechnology	DBT Star College Scheme	October 26, 2018
7.	Cloud Literacy Day	Department of Computer Science & ICT Academy and Amazon Web (AWS) Services	Sponsored by ICT and AWS academy	October 8, 2018
8.	World Rose Day for Cancer patients	Department of Microbiology & Manipal Hospital	DBT Star College Scheme	September 24, 2018
9.	Research	Dr. Ruchi Gulati Marwah in collaboration with Dr. Anjana Sarkar (Department of Chemistry, NSIT)	Department of Biotechnology (DBT), Ministry of Science & Technology	1 Year (2018-2019)
10.	Research	Ms. Shivani (Joint-Ph.D. Supervision)	Other Institute Fellowship	August, 2015 – August, 2019
11.	Research	Ms. Alka (Joint-Ph.D. Supervision)	Indian Council of Medical Research (ICMR), Delhi	May, 2015 – March, 2019

3.5.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

S. No.	Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
1.	Inter-college Research Internship under DBT foldscope initiative	Research Internship	Department of Biotechnology (DBT), Ministry of Science & Technology, and Shivaji College, University of Delhi	January 15, 2019 –April 15, 2019	Ms. Anjali, Ms. Sushma Yadav, Ms. Neha Yadav, Ms. Shirin Qureshi, Ms. Varsha Singh and Ms. Shweta
2.	Internship	Summer internship	R. S. Bhatnagar & sons	June 06 – July 19, 2018	Mr. Sachin Kumar
3.	Research	Joint-Ph.D. supervision	Guru Govind Singh Indraprastha (GGSIPI) University, Delhi	August, 2015 – August, 2019	Ms. Shivani, Ph.D. student
4.	Research	Joint-Ph.D. supervision	Dr. B. R. Ambedkar for Biomedical Research, University of Delhi	May, 2015 – March, 2019	Ms. Alka

3.5.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

S. No.	Organisation	Date of MoU signed	Purpose and Activities	Number of students/ teachers participated under MoUs
1.	Mother Dairy Fruits and Vegetables Pvt. Ltd.	April 16, 2019	To conduct sensory evaluation of Organic vs Non-organic Fruits and Vegetables	Teachers: 02 Students: 13
2.	IMS-Delhi	January 24, 2019	Technical Session during AMBROSI A-2019	Teachers: 02 Students: 45
3.	PEPSICO India Holding Pvt. Ltd.	December, 2018	<u>SNF@Schools</u>	Teachers: 02 Students: 21

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES**4.1 Physical Facilities****4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year**

Budget allocated for infrastructure augmentation (Rupees in Lakhs)	Budget utilized for infrastructure development (Rupees in Lakhs)
81.4*	55.93*

* Non Recurring budget allocated & expenditure for development towards Sports, Library, Garden, Departments, Administration and Canteen.

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	39,408.30 sq. Mt.	Proofs mentioned in NAAC SSR 2016-17(Criterion 4.1.2 page no 131-132)
Class rooms	14	
Laboratories	4 with a store room (each department)	
Seminar Halls	1	
Classrooms with LCD facilities	14	
Classrooms with Wi-Fi/ LAN	14	
Seminar halls with ICT facilities	1	
Video Centre	NIL	
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	13	02
Value of the equipment purchased during the year (Rs. in Lakhs)	44.34853/-	23.77125/-
Others	01 (Gas Store) + 01 (Store room for chemicals); Room No. 009 is bifurcated into Synthetic lab 1 & 2, processing lab 3, analytical lab 4	

4.2 Library as a Learning Resource						
4.2.1 Library is automated {Integrated Library Management System -ILMS}						
Name of the ILMS software	Nature of automation (fully or partially)		Version		Year of automation	
KOHA	Fully		18.05.07.000		2007-2008	
4.2.1 Library Services:						
	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	24945	11052007	1375	990202	26320	12042209
Reference Books	461		18		479	
e-Books	Not Available					
Journals(Bounded Volume)	336					
e-Journals **	N-List	32200		5900		38100
Digital Database *	Not Available					
CDs	1148		38			1186
Library automation	RFID	1318531	-	-	-	1318531
Weeding (Hard & Soft)	494	118864.24	16	5992.99	510	124857.22
Others (specify)						

* As per DU Library.

** As per N-List Subscription.

4.3 IT Infrastructure									
4.3.1 Technology Upgradation (overall)									
	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Existing	194	03	-----	One of 20	----	20	174	100 MBPS	
Added	01 (with instrument in Polymer Science)						1		
Total	195	03				20	175	100 MBPS	

4.3.2 Bandwidth available of internet connection in the Institution : Leased line from University of Delhi			
...100... MBPS /GBPS			
4.3.3 Facility for e-content			
Name of the e-content development facility		Provide the link of the videos and media centre and recording facility	
4.3.4 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc.			
Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e-content
Dr.Eram S. Rao	Conserving and enhancing the nutritive value of food.	SWAYAM	01.08.2018
Dr. Shalini Sehgal	M.Sc. Food Microbiology and Food Safety	SWAYAM	21.01.2019
4.4 Maintenance of Campus Infrastructure			
4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year			
Assigned budget on academic facilities (Rs. In Lakhs)	Expenditure incurred on maintenance of academic facilities (Rs. In Lakhs)	Assigned budget on physical facilities (Rs. In Lakhs)	Expenditure incurred on maintenance of physical facilities (Rs. In Lakhs)
5.85972(Recurring for academic facilities)	11.83587(Recurring Amount for Departments, Library, AMC)	168.16413 (Recurring remaining amount after academic expenditure)	121.22996(water, electricity & garden)
4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)			
<p>There are well-defined procedures for maintaining and utilizing physical academic and support facilities or the Standard Operating Procedures (SOP) for issue of sports, laboratory equipments, books, laptops etc. The same are available and displayed on notice boards, laboratories and college website:-</p> <p>https://drive.google.com/file/d/1wTz7ILWIAS9_t0n3NY4Lxc-EaFEQMS01/view?usp=sharing</p>			

CRITERION V - STUDENT SUPPORT AND PROGRESSION**5.1 Student Support****5.1.1 Scholarships and Financial Support**

	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution	Fee concession for economically weaker students	68	1,34,505/-
Financial support from other sources			
a) National			
	Merit-cum-Means scholarship from PFNDAI	1	15000/-
	CII-SKA Merit-cum-Means scholarship	5	25,000 x 5=1,25,000/-
b) International			

5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
International Yoga Day "Holistic Health & Refreshing Mind Space"	June 21, 2019	55 Participants	Yoga Club & NSS Cell
Remedial Coaching	October 23-24, 2018 & March 22-23, 2019	8+8=16	Department of Chemistry
Remedial Classes	October 3 & 15, 2018	25+9=34	Department of Mathematics
Workshop on "Transforming Body & Soul through Yoga"	August 31, 2018	32	Yoga Club and Department of Physical Education
Mentorship	July 20, 2018	1200	Teaching Faculty of the College

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2018	The career counseling cell organized a session on 'Higher Education Opportunities in Abroad'	0	100	0	0

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
No grievances received in Internal Complaint Committee (ICC)	None	Not applicable
Proctorial	01	01 Day
Anti-ragging	None	Not applicable

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
Panacea Infosec Pvt. Ltd	31	02	Tata Consultancy Services	No data available	3
			Wipro Ltd.	No data available	12

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-19	15	B.Sc (H) Biomedical Science	Biomedical Science	SCMHRD Pune, University of Delhi, AIIMS, NUI Galway, JNU, CSJM University Kanpur, IIHMR University Jaipur, PDM University, Maharshi Dayanand University, NBRC, University of Maryland	MBA, M.Sc (Bioinformatics), M.Sc (Biotechnology), M.Sc (Regenerative Medicine), M.Sc (Biomedical)
2018-19	4	B.Sc.(H) Computer Science	Computer Science	University of Delhi, NIT Bhopal, BVICAM Delhi	MCA, M.Sc. Computer Science
2018-19	15	B.Sc (H) Food Technology	Food Technology	GJU Hisar, BHU, Indian Institute of Packaging (Delhi/Mumba, Pondicherry University, GNDU Amritsar	M.Sc (Food Technology/Food Science& Technology), PG Diploma in Packaging
2017-18	09	B.Sc (H) Food Technology	Food Technology	GJU Hisar, University of Allahabad, Indian Institute of Packaging (Delhi/Mumbai), Pondicherry University, GNDU Amritsar	M.Sc (Food Technology/Food Science& Technology), PG Diploma in Packaging
2017-18	11	B.Sc (H) Instrumentation	Instrumentation	University of Delhi, Jamia Millia Islamia, Symbiosis School of Banking and Finance, BIMTECH, KIET, Manipal Academy of Higher Education, ISB&M, Chaudhary Ranbir Singh University	M.Sc(Instrumentation/ Informatics/ Electronics) MBA, B.Ed, MCA, PGDM, MA (European Studies)
2018-19	16	B.Sc (H) Microbiology	Microbiology	Central University of Rajasthan, RCB Faridabad, University of Delhi,	M.Sc (Microbiology/ Biotechnology/ Genetics/ Nutrition Biology/ Applied

				VIT Vellore, IIHMR Delhi, IISER Pune, IIT Bombay, IIT Rorkee, University of Mysore, JMI, Central University of Haryana, DIET Harchandpur Kalan, Etah	Microbiology) Integrated Ph.D, MBA, DIET
2017-18	13	B.Sc (H) Microbiology	Microbiology	Montpellier Business School-France, University College Dublin, University of Delhi, IIHMR-Delhi, VIT-Vellore, University of Cambridge, Central University of Punjab, Illinois Institute of Technology-Chicago, Central University of Haryana, Amity University-Noida, University of Baroda	MBA, M.Sc
2017-18	17	B.Sc. (H) Polymer Science	Polymer Science	Forest Research Institute, CIPET (Ahmedabad), GGSIPU, University of Bordeaux (France), Indian Institute of Packaging (Delhi), Symbiosis International (SIMS), Gujarat University	M.Sc. (Environment Management, Polymer Science, NRM, AMIR), PG Diploma in Packaging, MBA

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOEFL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	5	325030,1110301864,DL0112546290, 310347, DL0113548832
SET		
SLET		
GATE		
GMAT		
CAT	1	8167646
GRE		

TOEFL		
Civil Services		
State Government Services	1 (UP Police)	10208202933
Any Other BET (DBT)	1	15080410279
MAT	1	814305/902840074

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year		
Activity	Level	Participants
Inter-Departmental sports activities	Intra-College	Participants from all the three years of every department
Annual cultural festival, SRIJAN-2019	Inter-College	Students from different colleges/different academic institutions
Republic day celebration	Intra-College	Students from different clubs and cells of college
Independence day celebration (Dance, Debate, Music)	Intra-College	Students from various departments
Workshop on basic bhangra-bollywood routine	Intra-College	Students from various departments
Parliamentary debate competition 'CONLOQUIUM'	Inter-College	Students from various colleges
Antakshari competition, "Andaaz Apna Apna"	Intra-College	Students from various departments
Singing competition	Intra-College	Students from various departments
Competition on the theme "Click and Draw"	Intra-College	Students from various departments
Film club screened the movie "Parmanu"	Intra-College	Students from various departments (around 110 students)
Natya pratiyogita on "Gandhi Ji in Champaran"	Inter-College/Institution/ Departments	Members of Dramatic Club and Gandhian Study Centre
Diya decoration competition	Intra-College	Students from various departments
Tree plantation drive	Intra-College	Students from various departments
A poster-making competition on recycled sheets	Intra-College	Students from various departments
Paper recycling workshop	Intra-College	Members of Eco Club
A rakhi-making competition	Intra-College	Students from various departments
Tree census activity	Intra-College	Members of Eco Club and students of Botany Department
Quiz competition on "Indian history with essence of Science"	Intra-College	14 teams
Photography contest (click and share)	Intra-College	Students from various departments
Rangoli designing competition	Intra-College	Students from various departments

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID Number	Name of the student
December 3, 2018.	Gold Medal	National	62nd National championship competitions (NSCC) in 50 meter pistol junior men (Team Event)		1603113	Nishant Sindhu
November 06, 2018	Silver Medal	National	All India Inter University Shooting Championship in 10 meter Air-Pistol- Men (Team Event)		1603113	Nishant Sindhu
September 24, 2018	First prize	National		Debate competition held at Regional Centre for Biotechnology, Faridabad	1606005	Udaat Mittu

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Class representatives are selected from each year for their respective departments. They serve as a link between students and college to collect and disseminate information. They represent their department at various levels and facilitate academic and co-curricular activities of the college.

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):NO

5.3.2 No. of registered enrolled Alumni: 998 (Students have filled up the alumni database on college web portal)

5.3.3 Alumni contribution during the year (in Rupees) : NIL

5.3.4 Meetings/activities organized by Alumni Association :

- Alumni Meet-2018 was held on January 18, 2019. Around 100 people including 22 alumni attended the event and the alumni resolved to actively participate in various activities relating to growth and development of the college.
- Each year college felicitates an alumni with 'Distinguished Alumni Award' based upon the excellence in Academic / Research or Corporate / Industry or Government and Defence services or Public Administration or Entrepreneurial venture or Art/Culture/Sports or service to the society at large. This year Distinguished Alumni Award -2018 was given to Mr. Amit Verma (from the Department of Electronics, batch 2003) for his excellent work in entrepreneurial venture.

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization: Institute has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards decentralized governance system. The highest decision making body of the college is its governing body (GB).The GB facilitates smooth functioning of the college activities as per DU ordinance XVIII. The GB approves the budget proposal and expenditure statement for submission to Directorate of Higher Education. The College affairs are managed as per the guidelines of University of Delhi and Government. The Principal, being the Head of the institute sets the tone for all the stake holders with staff members. He ensures that all policies and decisions are implemented in the right spirit and plans ahead for the future.

Formulation of action plans for all operations and incorporation of the same is done by the Principal through various staff council committees with the involvement of administrative staff.

- ❖ Various staff council committees have respective Convenors and departments have Teacher-in-charges. They take decisions; formulate guidelines and rules for implementation of different schemes, keeping in minds the acts of University of Delhi and the Government.
- ❖ Teacher in Charge along with the faculty of the Department caters to various activities and duties of their departments.
- ❖ Teacher in-charge is appointed by rotation for a period of two years and by seniority.
- ❖ The Section Officer(Administration) and Section Officer(Accounts) are responsible for the proper functioning of their respective offices.

Faculty Level: Faculty members are given representation in various committees/cells and allowed to conduct various programs. Students are encouraged to develop leadership skills by being in charge of various academic, co-curricular, and extracurricular activities. Department organises industrial tours, seminars/workshops/conferences/FDPs and ties up with industry experts for ability enhancement of students as well as faculty. For effective implementation and improvement of the institute various committees are formed. Other units of the institute like sports, library, store etc. have operational autonomy under the guidance of the various committees/cells.

6.1.2 Does the institution have a Management Information System (MIS)?

Yes: College has software called “College Management System” to cater various management related works. Apart from this, College has its in-house Automation and Digitization Committee which manages attendance, internal assessment, workload, GE options, budget and time-table of all the departments.

*(Details are mentioned under Part-A, 17pt.)

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

The effectiveness of deployment is reviewed through a student performance appraisal system and other review processes.

❖ Curriculum Development:

It is an on-going process. Curriculum revision for all existing departments has just taken place. The revised curriculum is uploaded on the University portal and is effective from July 2019-20 academic sessions based on Learning Outcome Curriculum Framework. Academic planning is also done by faculty members at college level. Generic Elective subjects are offered and taught to students to gain knowledge of subjects other than their department. Industrial visits are organised by the departments every year to bridge the gap between theoretical and practical knowledge. Invited talks/quiz/poster presentation programs are organised under DBT Star College Scheme. Minor projects are undertaken to enhance interdisciplinary approach. Virtual labs are being used by some departments (Physics and Biomedical Science) to enhance, refine and assist the learning and experimentation process. (<http://youtu.be/ViqHtLZSOjM>).

❖ Teaching and Learning:

Academic calendar prepared by Delhi University is followed by the College (<http://www.du.ac.in/du/index.php?page=academic-calender>). Departmental classrooms are equipped with ICT facilities and same are used by the faculty as teaching aid. Teachers actively participate in orientation programs/refresher courses/workshops/national and international conferences to refine their research and teaching skills. Academic Programmes with defined learning outcomes are implemented. All the departments promote the quality enhancement activities in academics by organizing workshops, conferences and seminars. Concept of virtual labs is also used better understanding of basics. Different Topics for PPTs (Curriculum based and application based) are given to students for learning purpose. Teaching and Learning outcomes of individual papers of all B.Sc.(H) courses have been incorporated in revised syllabus.

❖ Examination and Evaluation:

Examinations are conducted by the University of Delhi. Evaluation under CBCS is done as per the university regulations. For this both formative and summative approaches are adopted. The internal assessment is done as per guidelines issued by University of Delhi. Remedial classes and counselling are also provided for slow learners.

❖ Research and Development:

Seminars/workshops/extension lectures are organised in the college to inculcate scientific temper among the students and faculty members. College has received various Grants from DBT, DST and SERB towards major and minor research projects. Computers with internet facility are provided to the faculty to access e-resources. College Library is equipped with INFLIBNET/NLIST facility and adequate laboratory facilities are present to carry out research work.

Several Teachers are recognised as Ph.D. guides in the College. Although no budget is earmarked for research by the college, still faculty members are encouraged to prepare research proposals for various funding agencies and also to organize, attend and present papers at national/international conferences and seminars. Under the Star College Scheme, Faculty is also encouraged to introduce new practical/techniques/minor projects which are not a part of their curriculum, to build up on the basic concepts of the students and to encourage them to take up career/higher studies. Faculty of most of the departments are involved in various research fields and have several publications.

List of on-going projects in the Department of Biomedical Science are as follows:

Project Code	Title of the Project	Principal Investigator	Funding Agency	Grant received (01/04/18-31/03/19)
CO/A/FP/E108/201	Safeguarding immunity and health versus Indiscriminate use of antibiotics: Building medical awareness and capacity for informed choice through multilevel orientation, exhibitions and demonstrations for students, paramedics, drug marketing systems and community	Dr. Uma Chaudhry and Dr. Balaram Pani	DST	400000/-
BT/IN/Indo-US/Foldscope/39/2015	Use of Foldscope for the speed identification of microbes: An inexpensive and point-of-care solution for screening of microbes	Dr. Uma Chaudhry	DBT	600000/-
ECR/2017/000605	Significance of 5-hydroxymethylcytosine in neurodegeneration associated with rapid eye movement sleep derivation	Dr. Uma Dhawan	DST-SERB	1757000/-

❖ **Library, ICT and Physical Infrastructure / Instrumentation:**

College Library is well-equipped with excellent collection of books for the students of all courses.

Library has KOHA enabled software and equipped with RFID technology. Laboratories and sports room are well equipped with various instruments required as per the curriculum. Few classrooms are equipped with ICT facility. Office is equipped with photocopy machines, desktop computers, e-notice board, CCTV and other IT tools. Sports infrastructure includes a gymnasium and facilities for various indoor and outdoor sports activities. There is a separate girl's common room and a well-equipped ECA room.

❖ **Human Resource Management**

College promotes participative management. Principal as ex-officio member secretary is the highest decision making authority (Governing body). The college is routinely managed through staff council committees. Following research staffs have been appointed in the projects of faculty members of the department of biomedical sciences.

- **Ms. Sana Masroor** as Project Fellow in the DST-SERB project entitled, 'Significance of 5-hydroxymethylcytosine in neurodegeneration associated with rapid eye movement sleep derivation' of Dr. Uma Dhawan.
- **Mr. Sandeep Kumar** as Project Assistant in the DST project entitled, 'Safeguarding immunity and health versus Indiscriminate use of antibiotics: Building medical awareness and capacity for informed choice through multilevel orientation, exhibitions and demonstrations for students, paramedics, drug marketing systems and community' of Dr. Uma Chaudhry.

❖ **Admission of Students:**

Admission process is governed as per the direction from the University of Delhi. Admission Committee is constituted to review/see the admission process. Admission Process is publicised through college website.

❖ **Industry Interaction / Collaboration:**

Memorandum of Understanding (MoU) signed with Clintox Bioservices, Hyderabad for collaborative activities of B.Sc.(Hons.) Biomedical Sciences from August 2017 till date. College also encourage students to do summer training/internship programmes in Industries or other organizations.

6.2.2 : Implementation of e-governance in areas of operations: Delhi University Computer Centre facilitates online admission, examination schedule and display of results.

❖ Planning and Development
❖ Administration: <ul style="list-style-type: none"> • All the communication is carried through official e-mails. • There is a centralized link to upload the departmental budgets for purchase of equipments/items, which avoids purchase of similar items from different vendors. • College has online facility to upload workload, time-table and student feedback. • Online link is also provided to students to choose their GE (generic elective) papers in each semester.
❖ Finance and Accounts: <ul style="list-style-type: none"> • Account section of the College uses CMS software for calculating tax and preparing salaries of staff members. • RTGS mode is used to transfer all the payments to staff members, vendors etc.
❖ Student Admission and Support: <ul style="list-style-type: none"> • Online Admission portal of Delhi University provides facility of online admission to students.
❖ Examination: <ul style="list-style-type: none"> • Examination results/schedule and Academic Calendar is provided by Delhi University Administration.

6.3 Faculty Empowerment Strategies :

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. Vijay Kumar Nalla	Workshop on “Biotechnology start up ecosystem in India” on March 18 th 2019, Organised by DBT and BCIL at INSA, New Delhi.	-	Rs. 2000

6.3.2 Number of professional development / administrative training programmes organized by the College for teaching and non-teaching staff during the year:

6.3.3

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2018	A workshop for handling the digital attendance module	NA	30.08.2018	32	NA

2019	Workshop on "Handling errors in digital attendance module"	NSA	18.01.2019	11	NA
2018	NA	A training on Biomedical Waste	19.07.2018	NA	16
2018	NA	One day workshop on Waste Management and Making of Compost	28.11.2018	NA	50

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
Two days Functional Efficiency Training program on 'Public Procurement under GFR 2017 including e-Procurement and GeM' by Directorate of Training, Union Territories Civil Services, Govt. of National Capital Territory of Delhi	01	April 17 th -18 th , 2018
Refresher Course in Life Sciences organized by Centre for Professional Development in Higher Studies (CPDHE), University of Delhi.	02	17 th July-6 th August 2018
5-day Faculty Development Program in Shyama Prasad Mukherjee College, University of Delhi	03	September 22 nd -26 th , 2018
Two-day Faculty Development program (FDP) cum workshop on the topic "Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline –Specific Teaching" held at Sri Venkateshwara College, DU	04	October, 13 th -14 th 2018
Short Term Course on 'Research Methodology' at CPDHE, UGC-HRDC, University of Delhi	01	December, 18- 24 th 2018
3 weeks Refresher Course in 'Social Concerns and Social Science' CPDHE, UGC-HRDC, University of Delhi	01	December, 17 th 2018
National level FDP on 'Software Packages for Mathematical Sciences' (Ministry of Human Resources Development Initiative under PMMMNTT) held at Hansraj College	01	November, 14 th -19 th 2018
UGC sponsored Short Term Course on Disaster Management at Jawaharlal Nehru University, Delhi	01	December, 17 th – 21 st 2018
National Workshop on Central Public	01	January, 21 st 2019

Procurement Portal department of Expenditure and National Informatics Centre, Ministry of Electronics & Information Technology at Delhi		
Workshop on MOOCs, E-content Development and open Educational Resources, JamiaMiliaIslamia	01	February 25 th – 02 nd March 2019
Workshop on MOOCs, E-Content Development and Open Educational Resource at CPDHE, UGC-HRDC, University of Delhi	01	March, 13 th - 19 th 2019
UGC sponsored Refresher Course, Physics	01	March, 11 th - 30 th 2019
Short Term Course on ‘MOOCs, E-learning and ICT’ organized by CPDHE, University of Delhi	01	June 15 th -21 st , 2019

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime/temporary
No Appointments in the academic session 2018-19.			

6.3.5 Welfare schemes for

Teaching	NA
Non-teaching	NA
Students	<ul style="list-style-type: none"> Welfare schemes for the students are being run under National Scholarship Portal and e-district portal of Delhi government. These schemes include Central Sector Scheme of Scholarship for College. College routinely forwards the applications of students for these scholarships. College also provides fee concession to the needy students. In 2018-19 fee concession was provided to 13 students.

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)

For running the institution grant is provided by DHE, Govt. of Delhi. This fund is allocated by the central purchase committee of the College to different departments for various non-recurring and recurring/repair heads. Internal audit is regularly done at college level and external audit is done by the Govt. authorities.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non-government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
Electronics Shop	10000.00	Electronics Department Activities
VK Box Boz Tech TV	3000.00	Electronics Department Festival
Ask Enterprise	5000.00	Electronics Department Festival
Almanac Life Sciences	5000.00	Microbiology Department

		received Sponsorship towards One day symposium and Microquest 2019
Himedia Laboratories Pvt. Ltd.	5000.00	Microbiology Department received Sponsorship towards One day symposium and Microquest 2019
ASS Science Academy and Sustainable Initiatives	30000.00	Biomedical Science Department Festival
M/s J. K. Traders	10000.00	Biomedical Science Department Festival
M/s R.P.D. Enterprises	10000.00	Biomedical Science Department Festival

6.4.2 Total corpus fund generated Rs. 78000.00

6.5 Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic			Yes: Student feedback is taken in each semester. Same is made available to faculty concerned for improving the teaching learning process, wherever necessary.	Principal
Administrative	No		No	

6.5.2 Activities and support from the Parent – Teacher Association (at least three)

No activities have been held.

6.5.3 Development programmes for support staff (at least three)

- One day workshop and hands on training on Waste Management and making of compost (Dec 2018), was organized by Food Technology department for non-teaching staff.
- One day training on handling of biomedical waste was organized by Swachhta and Waste Management Committee of the College on 19th July 2018.

6.5.4 Post Accreditation initiative(s) (mention at least three)

- College organized an intercollege “RozgarMela” in collaboration with National Skill Development Corporation on March 03, 2019 that provided a platform for interaction between undergraduate students and several reputed industries and companies.
- College has made eco-friendly and sustainable infrastructural changes such as installation of solar panel street lights, development of water harvesting system and compost pits.
- NSS Cell in association with Garden Committee and Swachhata and Waste Management Committee organized a Plantation Drive in the college premises on September 5, 2018 (Teacher’s Day). 100 Saplings were planted around in the college campus.

6.5.5

a. Submission of Data for AISHE portal	:	No
b. Participation in NIRF	:	No
c. ISO Certification	:	NA
d. NBA or any other quality audit	:	NA

6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to--- ---)	Number of participants
2018	Plantation Drive	05.09.2018	One day	50
2018	Plantation Drive	03.10.2018	One day	10
2019	RozgarMela	03.03.2019	One day	3100

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year):

Title of the programme	Period (from-to)	Participants	
		Female	Male
"International Women Day Celebrations"	March 8, 2019	150 approx. (Event was open to students and faculty members of different colleges.)	50 approx. (Event was open to students and faculty members of different colleges.)
"Women Empowerment" (One-day Workshop)	February 14, 2019	150	NA
"Changing Opinion about Gender" (Slogan Writing Competition)	January 21, 2019	26	10
"Self-Defence Training Program" in collaboration with Delhi Police	October 01-12, 2018	42	NA
"Gender Inequality" (Poster-Making Competition)	September 24, 2018	6	3
"Spectrum of Gender" (Collage-Making Competition)	September 24, 2018	6	3
Workshop on "Himmat Plus App" in collaboration with Delhi Police	August, 14, 2018	55	NA
"Need of Gender Sensitization" (A short talk competition to select "Gender Champions" of the college)	August 02, 2018	7	6
"Self-Defence Training Program" in collaboration with Delhi Police	July 02-12, 2018	70	NA

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Percentage of power requirement of the College met by the renewable energy sources

Ten photovoltaic solar panels have been installed for lighting up the drive way of the campus. College has plans to further expand inclusion of renewable sources of energy for its requirements.

7.1.3 Differently-abled (Divyangjan) Friendliness:

Many of these facilities exist in the college already, there has been no addition to these in the last academic year.

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities(Wheel-Chairs)	Yes	As and when needed
Provision for lift	NA	NA
Ramp/ Rails	Yes	1400
Braille Software/facilities	NA	NA
Rest Rooms	Yes	1400
Scribes for examination	NA	NA
Special skill development for differently abled students	NA	NA
Any other similar facility	NA	NA

7.1.4 Inclusion and Situations

Enlist most important initiatives taken to address locational advantages and disadvantages during the year:

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2019	1	1	January 15, 2019 to April 15, 2019	“Safe and Nutritious Food”	Importance of Safe and Nutritious Food	21 Students 02 Faculty Members (66,786 subjects benefitted)
2019		1	March 8, 2019	“Breast Cancer Awareness Program”	Creating awareness about breast cancer.	02 Students 01 Faculty Member (200 signatures collected)
2019	1	1	March 3, 2019	“RozgarMela”	Job Placement	02 Faculty Members (73 companies participated, 3000+ people attended, 2176 candidates registered and 1003 selections took place)

2019	1	1	January 19, 2019	“Clothes Distribution Drive”	Providing clothes to homeless people.	14Students 02 Faculty Members
2018		1	December 28, 2018- January 10, 2019	“Inadvertent Use of Antibiotics and the Resulting Antimicrobial Resistance”	Creating awareness about antimicrobial resistance.	02 Students 03 Faculty Members
2018		1	December 28, 2018- January 10, 2019	“Hand Hygiene”	Creating awareness about importance of hand hygiene.	02 Students 03 Faculty Members
2018	1	1	November 6, 2018	“Diwali Celebrations”	Celebrate Diwali	08 Students 02 Faculty Members
2018	1	1	October 12, 2018	“Food Safety & Food Nutrition”	Awareness about food safety.	10 Students 03 Faculty Members (1000 school students benefitted)
2018	1	1	October 09, 2018	“Digital Divide and Role of Social Media”	Awareness about social media.	30 School Students 40 College Students 05 Faculty Members 04 Non-teaching members
2018	2	2	i) October 01-12, 2018; ii) July 02-12, 2018	“Self Defence Training Program”	Women Safety	42 Students 05 Faculty Member 70 Students 03 Faculty Members
2018	1	1	September 27-28,2018	“Voter ID Camp”	Voter Enrolment	04 Students 01 Faculty Member (100 students participated approximately)
2018	1	1	August 3-16, 2018	“SwachhtaPakhwara”	Cleanliness Drive	Within campus: 83 Students 01 Faculty Member Outside the campus: 101 Students 01 Faculty Member

7.1.5 Human Values and Professional Ethics		
Code of conduct (handbooks) for various stakeholders		
There is no handbook for code of conduct for the college separately. The college follows the norms as laid out by University of Delhi. The college though has made a manual of SOPs for all staff council committees for general guidelines of functioning.		
Title	Date of Publication	Follow up (maximum 100 words each)
NA	NA	NA
7.1.6 Activities Conducted for Promotion of Universal Values and Ethics		
Activity	Duration (from-----to-----)	Number of participants
“International Yoga Day”	June 21, 2019	40
“Bhaskaracharya Week”	January 28-February 2-2019	Sessions: I-VII I: 80 II: 80 III: 140 IV: 129 V:100 VI: 100 VII: 100
“Rashtriya Ekta Diwas”	October 31,2018	150 (approximately)
“National Youth Campaign Programme on Cardio Pulmonary Resuscitation” (CPR)	October 23, 2018	10
‘Spreading the Message of Peace’	October 3, 2018	40
‘Cultural Diversity in North East’	September 29, 2018	8
‘Universal Brotherhood Day’	September 28, 2018	72
‘Building India Upon Values’	September 07, 2018	30
‘International Yoga Day’	June 21, 2018	40
7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)		
<ol style="list-style-type: none"> 1. Regular plantation drives in the campus. 2. Installation of solar street lights. 3. Rain-water harvesting system. 4. Compost pits within campus to manage waste. 5. Installation of internal gas pipelinefor PNG connection in laboratories. 		

7.2 Best Practices

Describe at least two institutional best practices. Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link.

There have been several initiatives taken by the college for the benefit of all stakeholders and also to contribute to society at large. Many of these have been mentioned in preceding sections and the other criteria covered in this edition of AQAR. However, in order to describe any two best practices, the college would like to highlight the following two:

1. Environment-friendly Campus

An educational institution can play a vital role in societal and environmental reforms besides its various academic pursuits. Keeping the growing ecological concerns and a dire need for immediate action to carry out and promote eco-friendly practices is the need of the hour. The college firmly believes that, when it comes to environment conservation, awareness must be followed by sustainable practices. In this endeavour, different departments along with various clubs and committees have undertaken several initiatives and organized different activities to reduce the carbon footprint and inculcate greener practices. Mentioned below are the details of many such initiatives undertaken and strengthened:

Environment Audit: Environment audits were carried out on August 16, 2018 and April 04, 2019 in the college. Green practices and other environment-friendly initiatives undertaken by the college were recognized and appreciated by the visiting teams. Reports of the same are uploaded on college website under the IQAC tab.

Tree Plantation: Regular plantation drives were organized in the college in collaboration with different departments, cells and committees. Teaching and non-teaching staffs members in association with the students take active participation in these tree plantation drives. Plantation of *Citrus Lemon* trees, *Areca Palm*, *Terminalia arjuna*, *Malus pumila* (Apple tree), *Punicagranatum* (Pomegranate tree) and *Terminalia bellirica* etc. were completed in these drives. A “*tree census*” in the college premises was carried out between August 8-10, 2018 by Eco club in association with Department of Botany. According to the tree census, there were a total of 400 trees and in terms of diversity, about 50 different species of trees were found in the campus. College also has been following the practice of greeting guests with potted plants for all functions and activities organized in the college for several years now. It is also a step in the direction to promote green practices and spread awareness at the same time.

Paper Recycling Unit: Akin to reduce and reuse, recycling is also one of the effective ways to conserve natural resources, save energy, minimize greenhouse gas emissions and reduce the ever-growing load on landfill spaces. Thus, *paper recycling* is a regular exercise in the college. A “Paper-Recycling” workshop was organized in order to sensitize students. Students actively participated in the workshop and made various coloured sheets. A drive was also carried to collect waste paper and recycle them for different uses in the college. Further, beautiful posters, paintings, greeting cards and visiting cards are also made using recycled sheets for various activities conducted in the college.

Infrastructural Additions: In a constant endeavour to make the college campus increasingly environment-friendly and follow sustainable practices, certain infrastructural additions were carried out and further are being worked upon. Ten *photovoltaic solar panels* have been installed for lighting up the drive way of the campus. College has two functional *rain water harvesting units* and in association with Delhi Jal Board are able to conserve rain water. This storage water helps the campus in supplying the requirement of water for the sanitary purposes.

Another step in the pursuit of adopting clean and green practices, college laboratories have been equipped with *Piped Natural Gas*. PNG is one of the cleanest burning fuels, and helps improve the quality of air. PNG pipeline laying in the college campus has been commissioned and is now functional.

Waste Management: College has banned the burning of leaves and branches. Compost pits were prepared in the college premises. These compost pits are used for dumping organic waste/green waste

for future reuse as manures. College uses *vermi-compost pits* to create compost from bio-degradable waste. The compost pits rely on the natural decomposing, accelerated by earthworms and bacteria that break down organic matter into manner. College has also implemented a mechanism to dispose solid waste in a scientific manner, hence biological and chemical wastes are released only after necessary treatment. Some departments have installed e-waste bins to collect electronic waste. Department of Chemistry carried out a small survey to gauge public knowledge and create awareness about e-waste disposal. Bhaskaracharya Environmental and Sustainability Taskforce (BEST) carried out a small awareness program in the adjoining areas to encourage locals to dispose garbage responsibly. The second practice included here is also a reflection of the green practices followed by college besides its utility and innovation. Digitisation and automation of several academic and administrative activities have reduced the usage of papers manifold.

2. Digitisation and Automation of Academic and Administrative Activities:

Digitisation and Automation Committee of the college has recently devised an “Integrated College Management System” that has been running successfully since its implementation. Introduction of a few additional features have streamlined many academic and administrative processes along with ease of operation. Kindly find mentioned below other activities that were included last year in order to upgrade its various tools:

Digital Attendance and Compilation of Internal Assessment: A mechanism has been successfully developed to take daily class attendance using ones’ mobile phone. Teachers have dedicated links and attendance gets regularly updated on the college website. A feature of name stamp is made available for each individual teacher, at the time of submitting attendance to facilitate maintenance of proper records as well as identifying errors, if any. This feature also helps maintain easy access and transparency. This utility auto-generates 5% of the internal assessment marks (on the basis of attendance recorded). This feature was praised by the Vice-Chancellor, University of Delhi and he also proposed to adopt the same in each college of the university.

Feedback Mechanism: An online mechanism was devised to collect feedback from the stake holders. The information is shared with the IQAC members to look into the concerns raised any their possible resolutions.

General Elective (GE) Segregation: The college began the process of choosing General Elective paper for both (Semester I & III and subsequently for II & IV) through an online process. A mechanism was devised to allot General Elective (GE) preference to students based on their “*Merit cum Preference*”. The system segregation not only helped to ensure complete transparency of the process but also brought down the manual effort by generating GE lists automatically.

Budget: An online module for budget was designed with an upper limit for each category. Printable format is also made available for the concerned Teacher-in-charges/Procuring Officers. The mechanism has streamlined the process besides making it extremely convenient.

Time-Table: The online module for time-table is designed for single window editing and generate different formats as per the requirement. The online module for time-table has been upgraded to generate and mail pdfs of different formats as per the requirement. Any kind of mismatch between the workload and timetable can be readily checked and modified. Time-table can be easily updated at all times and error if any occurs is reported immediately. The module also highlights availability of room as well as slots in an easy glance.

Mentoring System: Earlier the committee digitised the entire process of record-keeping of the interactions under student mentoring system,. Now, an additional feature is made available to the convener to manage the allotted mentees by the respective TICs. Each academic year has been divided in four quarters, whereby mentors can regularly upload their respective reports on a regular basis. These two activities as well as several others carried out in the said period are a reflection of all round efforts by all stakeholders. This continuous endeavour to introduce and improve methods of excellence, help pave way for spearheading the institute in the right direction.

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust.

Provide the weblink of the institution in not more than 500 words.

Indigenous Integrated College Management System

The college initiated the process of upgrading manual database in 2017, recordkeeping and various teaching and administrative processes to a digital platform. To achieve this, a free of cost, efficient and extremely user friendly “Integrated College Management System (ICMS)” was developed by a faculty from Department of Physics. This is an Enterprise Resources Planning (ERP) software, kindly find mentioned below mentioned some of its merits:

Efficiency: The system eliminates repetitive processes, and greatly reduces the need to manually enter information. It also streamlines the flow of information and makes it easier and more efficient to collect data.

Integrated Information: In place of data being distributed through a number of separate databases, all information can be stored at a single location. Data, hence remains consistent and updated.

Reporting: The software also helps make reporting easier and customizable. With improved reporting capabilities, users can respond to data/information requests with greater ease.

Security: The system improves the accuracy, consistency, and security of data. Provision for restrictions to data can also be enhanced.

Accuracy: The software has mechanisms to automatically check and report for errors in the data, which significantly brings down the need for any manual checking.

A point worth mentioning here is that similar systems are available commercially as well, cost of these can run up to in lakhs, whereas our faculty put it together on his own with very little expenses. It is no mean feat and has even found appreciation and recognition from Vice-Chancellor of University of Delhi. He subsequently requested for a demonstration of the system to see its possibility of a wider application.

More recently, as mentioned in point no.: 7.2, the feature of mobile attendance which is being successfully used within the college was once again noted and applauded by the Vice-Chancellor of University of Delhi. He very generously suggested the possibilities of it being adapted for rest of the colleges of University of Delhi.

All the links of the activities covered under this ICMS uploaded on the college website (www.bcas.du.ac.in) and individual links are mentioned below:

Timetable

<https://docs.google.com/spreadsheets/d/e/2PACX-1vRIItqARWI14f0Ft7HevBUqdEFpRkgJp50WY1pSjPJfUKHMM1ltBaN32PGdGHoChe0TSfxsdPF3uHQWP/pubhtml>

Student Attendance

<https://sites.google.com/a/bcas.du.ac.in/attendance-query/>

Internal Assessment

<https://sites.google.com/a/bcas.du.ac.in/internal-assessment/home>

GE Forms

https://docs.google.com/forms/d/e/1FAIpQLScxaFAxkDMnTr49LCMyZbYq_2-oqMBHXoUI5RR2sbK-5wedJw/viewform

Parent Feedback Form

<https://docs.google.com/forms/d/e/1FAIpQLSfXVTWrpXipWBIMXrH3U9zvDPMwYM2WB1j1SV5YMcX8Tvxp-A/viewform>

Student Feedback Form

https://docs.google.com/forms/d/e/1FAIpQLScoN4xqsn-oHB1EAUz4E-fG8062_Sq6ayotM1BOgRvf4HJ6FA/viewform?usp=sf_link

Mentoring System

<https://docs.google.com/forms/d/e/1FAIpQLSd1G5CElw6tiR7jamVMmAiKRge6ntttfYyEgTv0PX8YWeGssA/viewform>

8. Future Plans of Action for Next Academic Year (500 words)

Bhaskaracharya College of Applied Sciences constantly strives to push the envelope, to plan and accomplish more with each passing year. Thrust on academic growth withstanding, college also ensures co-curricular and extracurricular activities are duly accommodated in its repertoire. College also take cognisance of the social and environmental challenges that pose a concern and work in the direction of devising means to tackle them. Keeping all these perspectives in mind, the following plans of action are proposed for the period between 01.07.2019-30.06.2020. The institution with the help of all the stakeholders shall try to ascertain to fulfil all these plans and more:

1. **Solar-power enabled premises:** In the gone year, college initiated the concept of turning to renewable energy sources for meeting its energy requirements. As a result, photovoltaic solar panel street lights were installed in the campus. To take it further, college shall try to install solar panels across the college to tap this natural and sustainable source of energy.
2. **Eco-friendly campus:** In addition to several practices followed already, college plans to go one step forward by introducing a few more additions to its “go-green” initiatives. College shall start a *‘herb garden’* to create awareness about medicinal plants and their varied benefits. Also, efforts shall be made to create a *“butterfly corridor”* within the campus.
3. **Introduction of new courses.** In last two years, college has started three new courses. A similar effort shall be made to ensure starting six new courses which have recently been approved by the Executive Council of University of Delhi.
4. **Open gymnasium:** “A healthy mind lives in a healthy body”; One cannot undermine the importance of physical fitness in the holistic well-being of an individual. Hence, an effort shall be made to put in place an open gym which shall encourage students and staff alike to focus on physical health.

5. **Sports facilities:** Last year, our students have done us proud by winning many accolades in the field of sports. College firmly believes that if better facilities are provided, it shall not only lead to surge in participation but may also better performance of our students in competitive tournaments. Thus, attempt shall be made to add superior sports facilities in the campus.
6. **Building expansion:** With its growing popularity and increase in number of courses being offered, college can definitely benefit with an expansion of infrastructure. Thus, college shall initiate and also follow-up plans of expansion of its campus.
7. **CCTV surveillance:** College shall also attempt to bring the entire campus under CCTV surveillance for enhanced safety in the campus premises.
8. **Outreach programs:** In last academic session, various outreach activities were successfully carried out which benefitted thousands of participants. This year college shall further work to include different kinds of outreach activities to help society at large to gain from the expertise of our members.
9. **E-learning centre:** Technology can play a huge role in knowledge dissemination, and a country like ours can benefit immensely from it. College shall explore possibilities to start a e-learning centre in its campus to facilitate the same.
10. **IGNOU Centre:** Delhi being the capital attract youngsters from across the nation in search of better education. Though owing to varying circumstances, not many can pursue a full-time education. Thus, distance learning can provide an alternative platform to these students learning needs. College shall try to start a IGNOU centre in its campus to make education accessible to those in need.

Name Dr. Madhulika Lajpai

Name Dr. Balaram Parri

M Lajpai

B Parri

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC



Annexure 1.3.2

List of Projects (1-44) and Summer Training/Internships (1-32)

S.No	Title of the Project	Details of the students involved	Duration of the Project	Faculty Coordinator
1	Nischarin: A novel tumour suppressor protein, that inhibits cell migration and invasion	Ashutosh Ojha and Manisha, BSc (Biomedical Sciences) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
2	Proteins used in Cosmetics and Cosmetic surgeries	Sugandh Saxena and Adrija Sarkar BSc (Biomedical Sciences) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
3	AimA (Aeromonas Immune modulator, discovered in 2018): A novel anti-inflammatory protein secreted by common gut bacterium in zebra fish	Janvi Sheth and Madeeha Noor, (Biomedical Sciences) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
4	Canola Proteins (Rapeseed) Rapeseed, traditionally a oil source explored as a good protein source with a balanced amino-acid profile and potential functional properties such as emulsifying, foaming and gelling abilities	Utkarsh Singh and Vansh Garg, B.Sc (Food-Technology) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
5	Pisum Sativum proteins: Nutrition that is environmentally friendly and strengthens bio-diversity.	Alexander Massey and Vinod Singh Bhojak, B.Sc. (Food-Technology) Year I BSc (Microbiology) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
6	Insects as Novel source of protein with high nutrient efficiency	Vaishnavi Pant and Eshika Bindal BSc (Biomedical Sciences) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi

7	Honeybee protein Royalactin, a 57 Kd protein is similar in structure to Regina, is a mammalian protein, produced in early embryonic development, Role in wound healing and cell regeneration.	G Aparajita and Tisha Aneja BSc (Food-Technology) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
8	Thermostable Proteins: Bioengineered Thermostable proteins with tremendous Applications	Ishani Sharma and Siddharth Trigunayat BSc (Microbiology) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
9	Miraculin: A glycoprotein from berries (Miracle Fruit) with sweet taste , readily soluble, thermostable and a potential sweetener in acidic foods like soft drinks,	Krishan Kant and Pavan Kumar BSc (Food-Technology) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
10	Spirulina , a microalgae as dietary support in long term aspects, like space flights or military mission and anti-inflammatory and anti-oxidant properties	Arnab kakati and Sayan Bose BSc (Microbiology) and BSc (Botany) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
11	Single cell protein: Highly nutritive dried cell of microorganisms as protein supplement in human food and animal feeds	Rahul Bansal and Harsh Kumar of BSc (Microbiology) Year I BSc (Botany) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
12	Chondrocalcin: A pro-collagen molecule, involved in calcium binding to calcify the cartilage	Piyush Pandey and Vaibhav Singh BSc (Food - Technology) Year I	Three Weeks Feb-March 2019	Dr Anita Sondhi
13	Protein c19orf10: Protein in the Synovium of patients with a wide variety of arthropathies and its role in health and disease remains to be determined.	Anish Chhillar and Navneet Singh BSc (Biomedical Sciences) YearI	Three Weeks Feb-March 2019	Dr Anita Sondhi

14	The Psychological and Physical effect of commuting: How transportation has impacted human life	Sahil Rana, Muskaan Sharma, Priyanka, Saloni and Priyadarshi	Three Months	Dr. Shivani G. Varmani
15	Brain foods and the effect of nutrients on the functioning of the Brain	Kritika, Pushpa Kumari, Mahima Yadav, KM Princy, Nikita Singh and Sazida	Three Months	Dr. Shivani G. Varmani
16	Brain foods and the effect of nutrients on the functioning of the Brain	Varnika Khattar, Pooja Sharma, Kalindi Dange, Yami Garg, Pratik Sharma and Devanshi Khanna	Three Monthse	Dr. Shivani G. Varmani
17	Effect of music on the Behaviour and Lives of human beings	Varnika Khattar, Pooja Sharma, Kalindi Dange, Yami Garg, Pratik Sharma and Devanshi Khanna	Three Months	Dr. Shivani G. Varmani
18	Exploring the relationship between Humans and Nature	Anish Kumar Ranjan and Naveen Nischal	Three Months	Dr. Shivani G. Varmani
19	Dreams and EQ: A survey based explorative study	Nilesh Kumar Kaundal, Ojal Saharan, Samarth Dhole, Niharika Atriwal, Anjali Jain, Mehak Bhatia and Drishti Sikdar	Three Months	Dr. Shivani G. Varmani
20	Healthy Mind, Happy Youth: Exploring the perception of Meditation, approach to Problem-solving and Happiness in Young Adults	Dhriti Jha	Three Months	Dr. Shivani G. Varmani
21	How Sports affects Personality	Deepti Roy	Three Months	Dr. Shivani G. Varmani
22	Isolation and characterisation of potential Plastic (Polyethylene) degrading bacteria from soil obtained from major landfills in Delhi.	Dhriti Jha and Deepti Roy and 02 students of B.Sc. (Hons) Microbiology: Ayush and Mishal	Two years (ongoing project)	Dr. Uma Dhawan
23	Designing of questionnaire for Health Care Survey to analyze	Bidisha Bhattacharya, Aditi Kanojia, Kriti	Three Months	Dr. Uma Dhawan

	Sleep Disorders.	Ahuja, Shreya Dasgupta, Vanshika Arora, Mayank Rana, Yathartha Kumar		
24	Designing of questionnaire for Survey of Lung Health	Swarnabho, Jasleen, Azmat, Diksha, Sahib, Jyoti	Three Months	Dr. Uma Dhawan
25	Designing of questionnaire to study the effects of frequent travelling on lifestyle changes and the overall health of people.	Poshan, Bhavya Pratap, Sumit, Varun, Nikhil and Vicky	Three Months	Dr. Uma Dhawan
26	Designing of questionnaire for the impact of gadgets on the health of the Indian Population.	Deepshikha, Bhawana, Apurva, Ria, Anamika, Anshika	Three Months	Dr. Uma Dhawan
27	Preparation of Antiseptic soap using Lycopene isolated from <i>Solanum lycopersicum</i>	Dhriti Jha, Ojal Saharan, Samarth Dhole, Nilesh Kumar Kaundal, Drishti Sikdar, Deepti Roy	Three Months (ongoing projects)	Dr. Kapil Roy and Dr. Uma Dhawan
28	Isolation, Characterisation and Comparative study of Nicotine	Varnika Khattar, Muskaan Sharma, Yami Garg, Mehak Bhatia	One Month	Dr. Kapil Roy
29	Analysis of NSAID in Ecospirin tablets by spectrophotometric methods.	Anirban Adhikary and Tanu Bansal, Prateek Wadwa	One month	Dr. Shvetambri
30	Quantitative analysis of Vitamin C and Glucose in <i>Phyllanthus embilica</i> derivatives	Ojal Saharan and Devanshi Khanna	One month	Dr. Shvetambri
31	To study the physiochemical characteristics of soil of West Delhi region.	Bidisha Bhattacharya, Aditi Kanojia and Anamika Gandhi	Four months	Dr. Shvetambri
32	Extraction and Estimation of Chlorophyll from Medicinal Plants: A comparative study	Ojal Saharan, Nilesh Kumar Kaundal, Devanshi Khanna and Anjali Jain	One month	Dr. Shubhra Barwa
33	Evaluation and comparison of different pouch milk,* Mother	Ritu,Sunesh,Sudatta ,Bhunya and Vishal	Three months	Dr Manjeet

	diary,*Amul,*Tonned Cow Milk etc.			
34	Evaluation of different chemicals used in daily used products like hair dyes,soaps,detergents,shampoo,nail polishetc *Mechanism*chemical structures*Advantages*Harmful impact.	Ankit,Manisha,Richa, Hirdyansh	Three months	Dr Manjeet
35	Evaluation of ten different plastic used in daily life in terms of their merits and demerits *Remedies	Aashish,lalit,Palak and Sumit	Three months	Dr. Sampat Singh
36	Evaluation of different types of bottle and soft drinks in terms of their chemical properties pH, Calories ,Ingredients	Piyush,Ankit, Amit Kumar and Shristhi	Three months	Dr. Sampat Singh
37	Studies on five medicinal plants and applications	Priyanka,Rahul,Naren dra and Vishal	Three months	Dr Shailja
38	Chemical analysis of five medicines used in life*Merits *demerits	Ritesh,Rishi Vishal, Shreya and Yukta	Three months	Dr Shailja
39	Radiations emitting from different electronic devices *Frequencies*How they effect human being *Remedies	Mohit,Rohan,Anupam and Deepak	Three months	Dr. Swati Gupta
40	Studies on different types of juices (canned juices, packed juices, fresh juices) pH, Calories ,Ingredients	Sumit,Paras and Sachin	Three months	Dr. Swati Gupta
41	Determining the Amylase Activity of Various Bacterialisolates obtained from soil.	Bhavana Thakur,Archana	7 th June-19 th July 2018	Dr Ruchi Gulati Marwah
42	Determining the chemical composition and structure of a <i>Bacillus sp.</i> Biofilm	Tanu bansal,Anirban Adhikary	1 st June-19 th July 2018	Dr Ruchi Gulati Marwah
43	Determining the Amylase Activity of Various Bacterialisolates obtained from compost.	Saurav Malik, Chander Pal	7 th June-19 th July 2018	Dr Ruchi Gulati Marwah

44	Water quality testing of samples from Dwarka region.	Parul Sharma ,KM Preeti,Khushboo,Trisha Bainwal	7 th June-19 th July 2018	Dr Nitin Chauhan
Summer Training/Internships				
	Topic of the Training	Name of the Student	Duration of Training	Name of the Institute and Mentor
1	Biophysical studies and characterization of cationic gene delivery agents	Apurva Gangal	1 st June to 31 st July 2018	Dr. Munia Ganguli of CSIR IGIB, Delhi
2	Clinical Biochemistry	Vanshika Arora	26 th June to 25 th July 2018	Dr. Charanjeet Kaur Vardhman Mahavir Medical & SafdarjungHospital
3	Molecular Biology Techniques	Jasleen Kaur	25 th May to 18 th July 2018	Prof. Pradeep Kumar Burma Department of Genetics, Delhi University
4	Metabolic Chemistry and Medicinal Biochemistry	Shreya Dasgupta	1 st to 23 rd June 2018	Dr. Roshan Alam Integral Institute of Medical Sciences & Research, Integral University, Lucknow.
5	Biomedical Engineering	Aditi Kanojia	14 th June to 15 th July 2018	Dr. Nisha Bhardwaj Venkateshwar Hospital, Sector 18A, Dwarka
6	Study of antimicrobial activity of Thiazole and Benzothiazole piperazine derivatives on pathogenic bacterial strains	Bidisha B	1 st June to 15 th July	Dr. Rita Kumari Dr. B. R. Ambedkar Centre for Biomedical Research, University of Delhi (SURP –2019)

7	Cloning and expression of Plasmodium falciparum palmitoyl-S-acyl-transferase-2	Swarnabho M	11 th June to 15 th July 2018	Dr. Shailala Singh SCMM, Jawaharlal Nehru University
8	Cloning of Candida albicans genes encoding HAP complex subunits	Ria Lodh	28 th May to 22 nd July 2018	Prof. Krishnamurthy Natarajan School of Life Sciences, Jawaharlal Nehru University
9	New diagnostic approaches for early detection of tuberculosis: non-invasive stool PCR based detection of TB	Kriti Ahuja	1 st June to 19 th July 2018	Dr. Yogendra Singh Department of Zoology, University of Delhi under the supervision of Dr. Yogendra Singh.
10	Inheritance of plastic response in larval feeding rate of crowding lines of Drosophila Melanogaster	Bhavya Pratap Singh	1 st June to 30 th June 2017	Prof. Amitabh Joshi JNCASR Bangalore
11	Techniques	Sahib Kaur	1st to 30 th June 2017	Dr. Renu Saxena SIR GANGARAM HOSPITAL
12	Worked on various crime cases under the DNA/biology division and result analysis based on short tandem repeats (Extraction, amplification and fragment analysis of DNA for personal identification and paternity testing)	Anamika Gandhi	29 th May to 19 th July 2018	Dr. Suminder Kaur Regional Forensic Science Laboratory (Govt. of Delhi), Chanakyapuri, New Delhi.
13	Green synthesis of silver nanoparticles from <i>Terminilia bellerica</i>	Diksha Lakhani and Yathartha Kumar	June and July 2018	CSIR-IGIB, New Delhi under the guidance of Dr. Hemant Gautam and Dr. Uma Dhawan

14	Green synthesis of Copper nanoparticles and copper – chitosan nanocomposites using <i>Allium Cepa</i> extract as reducing agent	Samarth Dhole	29 th May 2018 to 13 th July 2018	Dr. Mahima Kaushik CIC, University of Delhi
15	Green synthesis and characterization of reduced Graphene oxide using <i>Allium cepa</i> extract	Dhriti Jha, Deepti Roy and Drishti Sikdar	29 th May 2018 to 13 th July 2018	Dr. Mahima Kaushik CIC, University of Delhi
16	The vocational food analysis Industrial Training	Mr. Kinshuk Arora, Nikita Arya, Ms. Ankita Prasad, Mr. Rahul ManShah	1 st June to 30 th June 2018	FICCI Research and Analysis Center, Sector-8, Dwarka
17	Processing & Packaging of sprouts and analysis of frozen food products and monitoring of fruits and vegetables.	Ms. Ritika, Ms. Akariti Dutta, Ms. Nisha, Ms. Rachna Sharma	1 st June to 21 st June 2018	Mother Dairy Fruits and Veg. Pvt. Ltd, Mangolpuri, New Delhi
18	Milk processing	Ms. Monal Bhardwaj, Ms. Tamana Dhasmana, Mr. Amit Kumar, Mr. Dixit Pal, Mr, Nikhil Agarwal, Ms. Bhumika Dhoundiyal, Ms. Prachi Jain, Mr. Prashant Kumar, Ms. Komal, Ms. Twinkle Kesharwani, Ms. Nikita Arya, Mr. Mohammad Sadik, Ms. Ayushi Saini, Mr. Rajan Chaudhary,	26 th June to 19 th July 2018	Delhi Milk Scheme, West Patel Nagar, Delhi
19	Familiarization to all processes and their management along with packaging of the product	Mr. Rajan Chaudhary	4 th June to 18 th June 2018	M/S Astha Enterprises, Khijuria, Deoghar, Jharkhand
20	Performance rating of Concessionaire/contractor/Consultant	Ms. Kanika Sindhi	25 th May to 7 th July 2018	Quality Council of INDIA, Bahadur Shah

	nt (DPR)/Project Supervisions and recognition of Best Performers			Zafar marg, New Delhi
21	Food Safety In Flight Catering Industry	Ms. Priyanka Gupta	16 th June to 9 th July 2018	Tajats Air Catering, IGI Airport Complex, Delhi
22	Processing and Packaging of Wheat Flour and semolina	Mr. Yaman Sharma	1 st June to 15 th June 2018	Shree JEE JEE Grain Products PVT. Ltd., Karnal , Haryana
23	Synthesis and characterization of hydrophilic copper selenide decorated grapheme oxide nanocomposite	Mr. Prateek Wadhwa	25 May to 25 th June 2018	Institute of Nano Science and Technology, Mohali, Punjab
24	In Plant Taring	Ms. Chandini Tayal	1 st June to 30 th June 2018	CG Foods Pvt. Ltd. Ashrampara, Siliguri
25	Processed frozen foods and Freshfruit& vegetables	Mr. Rahual Man Shah, Ms. Ankita Prasad	2 nd July to 19 th July 2018	Mother Dairy Fruits and Veg. Pvt. Ltd, Mangolpuri, New Delhi
26	Milk processing	Ms. Anjali Singh	1 st June to 15 th June 2018	Bihar State Co-operative Milk Pro. Fed, Bakora city, Jharkhand
27	Protein Purification of Phenylalanine t-RNA Synthetase and enzyme assays.	Amit Kumar Bhatt, Bhawna Sharma	04 th June to 20 th July 2018	International Center for Genetic Engineering and Biotechnology (Dr. Anmol Chande)
28	Getting familiar with the basic techniques in Biotechnology	Saumen Sain	04 th June to 20 th July 2018	International Center for Genetic Engineering and Biotechnology (Dr. Anmol Chande)

29	Molecular Biology and Plant Biotechnology Techniques	Pranathi Ganti	11 th June to 06 th July 2018	I.C.M.R National Institute of Pathology (Dr. S.A Raju Bagadi)
30	Training of Microbiology	Ashmit Mittal, Mishal Khan	23 th June to 17 th July 2018	Dr. Baba Sahib Ambedkar Hospital, Govt. of NCT of Delhi (Dr. Meenakshi Sidhar and Dr. Achal Gulati)
31	Microbiology and Molecular Biology	Suchandana Deka	17 th to 31 st December 2018	University of Delhi, South Campus (Prof. M.V.Rajam)
32	Quality control in dairy products	Shreya Sharma	19 th June to 18 th July 2018	Mother Dairy Plant, Patparganj (Janmejaya Samal)

Annexure 2.5.1

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
B.Sc. (H) Biomedical Science	554	2017-2018 Even Semester	I Year- 22/5/18 II Year- 24/5/18 III Year- 18/5/18	I Year- 14/7/18 II Year- 17/7/18 III Year- 9/7/18
		2018-2019 Odd Semester	I Year- 13/12/18 II Year- 15/12/18 III Year-12/12/18	I Year- 29/1/19 II Year- 25/1/19 III Year- 19/1/19
		2018-2019 Even Semester	I Year- 24/5/19 II Year- 23/5/19 III Year-21/5/19	I Year- * II Year- * III Year- 28/6/19
B.Sc. (H) Computer Science	570	2017-2018: Even Semester	I Year- 22/5/18 II Year- 24/5/18 III Year- 18/5/18	I Year- 18/7/18 II Year- 18/7/18 III Year- 9/7/18
		2018-2019 Odd Semester	I Year- 13/12/18 II Year- 15/12/18 III Year-12/12/18	I Year- 29/1/19 II Year- 25/1/19 III Year- 19/1/19
		2018-2019 Even Semester	I Year- 24/5/19 II Year- 23/5/19 III Year-21/5/19	I Year- * II Year- * III Year- 28/6/19
B.Sc. (H) Electronics	558	2017-2018 Even Semester	I Year- 22/5/18 II Year- 24/5/18 III Year- 18/5/18	I Year- 18/7/18 II Year- 18/7/18 III Year- 9/7/18
		2018-2019 Odd Semester	I Year- 13/12/18 II Year- 15/12/18 III Year- 12/12/18	I Year- 29/1/19 II Year- 25/1/19 III Year- 19/1/19

		2018-2019 Even Semester	I Year- 24/6/19 II Year- 23/6/19 III Year- 21/6/19	I Year- * II Year- * III Year- 28/6/19
B.Sc. (H) Food Technology	559	2017-2018 Even Semester	I Year- 22/5/18 II Year- 24/5/18 III Year- 18/5/18	I Year- 14/7/18 II Year- 17/7/18 III Year- 9/7/18
		2018-2019 Odd Semester	I Year- 13/12/18 II Year- 15/12/18 III Year- 12/12/18	I Year- 29/1/19 II Year- 25/1/19 III Year- 19/1/19
		2018-2019 Even Semester	I Year- 22/5/19 II Year- 24/5/19 III Year- 18/5/19	I Year- * II Year- * III Year- 28/6/19
B.Sc. (H) Instrumentation	562	2017-2018 Even Semester	I Year- 22/5/18 II Year- 24/5/18 III Year- 18/5/18	I Year- 14/7/18 II Year- 17/7/18 III Year- 9/7/18
		2018-2019 Odd Semester	I Year- 13/12/18 II Year- 15/12/18 III Year- 12/12/18	I Year- 29/1/19 II Year- 25/1/19 III Year- 19/1/19
		2018-2019 Even Semester	I Year- 24/6/19 II Year- 23/6/19 III Year- 21/6/19	I Year- * II Year- * III Year- 28/6/19
B.Sc. (H) Microbiology	564	2017-2018 Even Semester	I Year- 22/5/18 II Year- 24/5/18 III Year- 18/5/18	I Year- 14/7/18 II Year- 17/7/18 III Year- 9/7/18
		2018-2019 Odd Semester	I Year- 13/12/18 II Year- 15/12/18 III Year- 12/12/18	I Year- 29/1/19 II Year- 25/1/19 III Year- 19/1/19

		2018-2019 Even Semester	I Year- 17/5/19 II Year- 23/5/19 III Year- 21/5/19	I Year- * II Year- * III Year- 28/6/19
B.Sc. (H) Physics	567	2017-2018 Even Semester	I Year- 8/5/18 II Year- 10/5/18 III Year- 12/5/18	I Year- 21/7/18 II Year- 24/7/18 III Year- 17/7/18
		2018-2019 Odd Semester	I Year- 29/11/18 II Year- 1/12/18 III Year- 1/12/18	I Year-29/1/19 II Year- 25/1/19 III Year- 19/1/19
		2018-2019 Even Semester	I Year- 22/5/19 II Year- 23/5/19 III Year-21/5/19	I Year- * II Year- * III Year- 28/6/19
B.Sc. (H) Polymer Science	566	2017-2018 Even Semester	I Year- 22/5/18 II Year- 24/5/18 III Year- 18/5/18	I Year- 14/7/18 II Year- 17/7/18 III Year- 9/7/18
		2018-2019 Odd Semester	I Year- 13/12/18 II Year- 15/12/18 III Year- 12/12/18	I Year- 29/1/19 II Year- 25/1/19 III Year- 19/1/19
		2018-2019 Even Semester	I Year- 24/6/19 II Year- 23/6/19 III Year- 21/6/19	I Year- * II Year- * III Year- 29/6/19
B.Sc. (H) Botany	556	2017-2018 Even Semester	I Year- 22/5/18	I Year- 18/7/18
		2018-2019 Odd Semester	I Year- 13/12/18 II Year- 15/12/18	I Year- 29/1/19 II Year- 25/1/19

		2018-2019 Even Semester	I Year- 24/5/19 II Year- 23/5/19	I Year- * II Year- *
B.Sc. (H) Chemistry	557	2017-2018 Even Semester	I Year- 24/5/18	I Year- 18/7/18
		2018-2019 Odd Semester	I Year- 13/12/18 II Year- 15/12/18	I Year- 29/1/19 II Year- 25/1/19
		2018-2019 Even Semester	I Year- 24/5/19 II Year- 23/5/19	I Year- * II Year- *
B.Sc. (H) Zoology	569	2017-2018 Even Semester	I Year- 24/5/18	I Year- 14/7/18
		2018-2019 Odd Semester	I Year- 13/12/18 II Year- 15/12/18	I Year- 29/1/19 II Year- 25/1/19
		2018-2019 Even Semester	I Year- 24/5/19 II Year- 23/5/19	I Year- * II Year- *

*Result dates were declared after 30th June 2019

Annexure 2.6.2

Programme Code	Programme Name	Number of students appeared in the final year examination including ex-students	Number of students passed in final semester/year examination	Pass Percentage
554	B.Sc. (H) Biomedical Sciences	35	34	97.14
570	B.Sc. (H) Computer Science	51	49	96.08
558	B.Sc. (H) Electronics	37	34	91.89
559	B.Sc. (H) Food Technology	46	46	100
562	B.Sc. (H) Instrumentation	73	61	83.56
564	B.Sc. (H) Microbiology	28	26	92.85
567	B.Sc. (H) Physics	25	23	92
566	B.Sc. (H) Polymer Science	42	37	88.1

Note: B.Sc. (H) Botany, B.Sc. (H) Chemistry and B.Sc. (H) Zoology commenced from academic session 2017-18. Thus, these students have yet to appear for final year exams.

Annexure Criterion 3

3.3.3 Research Publications in the Journals notified on UGC website during the year

	Department	S. No.	Indexing
National	Department of Biomedical Science	1.	Sircar, A., Pani, B. and Chaudhry U. (2018). “Biosimilars as therapeutic agents against neurodegenerative diseases – a focus on multiple sclerosis”. Modern Applications of Bioequivalence and Bioavailability. 3(4): MABB.MS.ID 555619
		2.	Sircar, A., Gupta, P., Pani, B, Thakur, R.S., Mittal, A., Anand, P., Bansal, N., Bhaskar, D. and Chaudhary U (2018). “Selection strategy for shortlisting potential candidates for the development of Biosimilars”. DU Journal of undergraduate research and innovation. 3(1): pp21-42.
	Total		02
	Department of Chemistry	1.	Sircar, A., Pani, B. and Chaudhry U. (2018). “Biosimilars as therapeutic agents against neurodegenerative diseases – a focus on multiple sclerosis”. Modern Applications of Bioequivalence and Bioavailability. 3(4): MABB.MS.ID 555619
		Total	
	Department of Food Technology	1.	Sunil K.,& Roshan L. (2018). Current Scenario and Future Draft for Healthy Indian School Canteen. Indian Journal of School Health & Wellbeing, 4(2), 61-69.
		Total	
	Department of Microbiology	1.	Nalla, VK., Chauhan, N., Sharma, B., Bhatt AK., Ganti, P. (2019). Microbial contaminants in commercial beverages: health concerns and suggestive preservative methods. Research and Reviews: A Journal of Microbiology and Virology, 9(1), 1-9.
		Total	
	Department of Polymer Science	1.	Barak, A., Kumari, M., Vanita Mishra, Divya Giri, Nand Gopal, Shukla, S. K., “Thermo-catalytic conversion of waste polyethene bags into value added products”, Indian Journal of Chemical Technology, 26 (2019) 95-99.
		2.	Barak, A., Kumari, M., Vanita Mishra, Divya Giri, Nand Gopal, Shukla, S. K., “Thermo-catalytic conversion of waste polyethene bags into value added products”, Indian Journal of Chemical Technology, 26 (2019) 95-99.
		3.	Barak A., Gangwar V. D., Shukla S. K., “Development and Characterization of Polyvinyl Chloride-Graphite Membrane” Indian Journal of Chemical Technology (IJCT); 2018, 25(2), 196-200.
		4.	Barak A., Gangwar V. D., Shukla S. K., “Development and Characterization of Polyvinyl Chloride-Graphite Membrane”. Indian Journal of Chemical Technology (IJCT); 2018, 25(2), 196-200.

	Total		04
	Department of Zoology	1.	Dhananjay Shaw, Balaram Pani, Anil Bali , Deepika Dhiman and Pawan Kumar (2018). Selected kinematics of upper punches, middle punches and lower punches of Karate- A comparative study. DU Journal of Undergraduate Research and Innovation; 3: 64-70.
	Total		01
International	Department of Biomedical Science	1.	Pawar, A. Jha, P., Konwar, C, Chaudhary U. , Chopra, M., Saluja. D (2019). "Ethambutol targets the glutamate racemase of Mycobacterium tuberculosis – an enzyme involved in peptidoglycan biosynthesis". Applied Microbiology Biotechnology. 103(2):843-851. doi: 10.1007/s00253-018-9518
		2.	Ash P.E.A*., Dhawan, U* , Boudeau, S., Lei, S., Carlomagno, Y., Knobel, M., Al Mohanna, L.F.A., Boomhower, S.R., Newland, M.C., Sherr, D.H. & Wolozin, B. (2019). Heavy Metal Neurotoxicants Induce ALS-Linked TDP-43 Pathology. Toxicological Sciences, 167(1), 105- 115. ISSN: 1096-6080. (* Equal first authors)
		3.	Kumar, A., Tyagi S. , Singh R. & Tyagi Y. K. (2018). Synthesis, characterization and self-assembly studies of dendron-based novel non-ionic amphiphiles. New Journal of Chemistry, 43, 1025-1031. ISSN: 1144-0546.
	Total		03
	Department of Botany	1.	Meena, A; Bidalia, A ; Hanief, M; Dinakaran, J; Rao K.S., (2019) "Assessment of above and below ground carbon pools in a semi-arid forest ecosystem of Delhi, India". Ecological Processes.
	Total		01
	Department of Chemistry	1.	Singh, P., Chauhan, S. S. , Singh, G. & Quershi, M. A. (2019). Corrosion inhibition by green synthesized inhibitor: 4,4'-(1,4Phenylene) bis (6-amino-3-methyl-2,4dihydropyrano [2,3-C] pyrazole-5 carbonitrile) for mild steel in 0.5 M H ₂ SO ₄ solution. Journal of Bio- and Tribo-Corrosion, 5(1), 11. ISSN: 2198-4220.
2.		Singh, A. K., Thakur, S., Pani, B. & Singh, G. (2018). "Green synthesis and corrosion inhibition study of 2-amino-N'-(thiophen-2-yl) methylene) benzohydrazide". New Journal of Chemistry, 42, 2113-2124. ISSN: 1144-0546.	
3.		Nain, R., Dobhal, S., Bidaliya, P., Saini, G., Pani, B. & Sirohi, S. (2018). Ag decorated silica nanostructures for surface plasmon enhanced photocatalysis. RSC Advances, 8, 20287-20294. ISSN: 2046-2069.	

	Total		03
	Department of Computer Science	1.	Bedi, P., Deep, B. , Kumar, P.& Sarna, P. (2018). Comparative Study of Open Nebula, Cloud Stack, Eucalyptus and Open Stack, International Journal of Distributed and Cloud Computing, 6(1), pp37-42 ISSN: 2321-6840.
		2.	Bedi, P., Deep, B., Kumar, P. & Sarna, P. (2018). Comparative Study of Open Nebula, Cloud Stack, Eucalyptus and Open Stack, International Journal of Distributed and Cloud Computing, 6(1), pp37-42 ISSN: 2321-6840.
	Total		02
	Department of Food Technology	1.	Dhyani A, Chopra R, Garg M. A Review on Nutritional Value, Functional Properties and Pharmacological Application of Perilla (Perilla Frutescens L.). Biomed Pharmacol J 2019;12(2)
		2.	KarmvIr, G., Ritika, B. Y., Baljeet, S. Y., & Roshan L. (2018). Physico-chemical, Textural and Crystallinity Properties of Oxidized, Cross-linked and Dual-modified White Sorghum Starch. International Food Research Journal, 25(5), 2104-2111.
	Total		02
	Department of Instrumentation	1.	Sugandha Sharma, Basant Saini , Ravinder Kaur, Monika Tomar, Vinay Gupta, Avinashi Kapoor, Low resistivity of pulsed laser deposited CdxZn1-xO thin films, Ceram. Int. 45 (2) (2019) 1900–1908.
		2.	Kumar, Anil; Rakesh; Kumar, Manoj; Bhatt, Geeta; Khanna, M. K; Kapoor, Avinashi, Spectral Interrogation of ZnO thin films for Lossy Mode Resonance Sensors,Advanced Science
		3.	Kumar, Anil; Rakesh; Kumar, Manoj; Bhatt, Geeta; Khanna, M. K; Kapoor, Avinashi, Spectral Interrogation of ZnO thin films for Lossy Mode Resonance Sensors,Advanced Science Letters, 24 (2018) 796-801.
	Total		03
	Department of Microbiology	1.	Marwah R.G. ,Anand P., Adhikary A., Bansal T., Gupta P., Viridi J., Gupta R., Maurya A.K., Saini M., Bacillus sp. (in:Bacteria) strain bcasdu2018/01 16S Ribosomal RNA Gene, Partial Sequence, ncbi.nlm.nih.gov
		2.	Marwah R.G., Anand P. , Adhikary A., Bansal T., Gupta P., Viridi J., Gupta R., Maurya A.K., Saini M., Bacillus sp. (in:Bacteria) strain bcasdu2018/01 16S Ribosomal RNA Gene, Partial Sequence, ncbi.nlm.nih.gov
		3.	Sirohi S., Dobhal S., Doshi M., Nain R. , Dutt K., Pani B.,

			Eco-Friendly Synthesis of PET based Polymeric Plasticizer and its Application in Nitrile-PVC Rubber Blends". Indian Chemical Engineers, 61 (2019) 206-217.
		4.	Manchanda, T., Tyagi, R., Nalla, VK. , Chahar, S., Sharma, DK. (2018). Power generation by algal microbial fuel cell along with simultaneous treatment of sugar industry wastewater. Journal of bioprocessing and biotechniques. 8(3), 1000323, doi 10.4172/2155-9821.1000323.
		5.	Nain, R. , Dobhal, S., Bidaliya, P., Saini, G., Pani, B., & Sirohi, S. (2018). Ag decorated silica nanostructures for surface plasmon enhanced photocatalysis. RSC Advances, 8(36), 20287-20294.
	Total		05
	Department of Physics	1.	S. Kumar , D.P. Dubey, S. Shannigrahi, R. Chatterjee, Complex permittivity, permeability, magnetic and microwave absorbing properties of Ni ²⁺ substituted mechanically milled U-type hexaferrites, J. Alloys Compd., 774 (2019) 52-60.
		2.	P. Yadav, S. Rattan, A. Tripathi, S. Kumar , Cost effective Fe/NG/PMMA nanocomposites for high-performance microwave absorbing applications, Mater. Res. Express, 6 (2019) 025047-025057.
		3.	P. Yadav, S. Rattan, A. Tripathi, S. Kumar , Swift heavy-ions irradiated nano-magnetite/exfoliated-nanographite/polymethylmethacrylate nanocomposites with excellent microwave-absorption performance, Mater. Lett., 253 (2019) 222-225.
			Letters, 24 (2018) 796-801.
		4.	D.P. Dubey, S. Kumar , R. Chatterjee, R., Magnetic and microwave absorption properties of Zn ²⁺ -Ti ⁴⁺ substituted U-type hexaferrites. Physica B: Condensed Matter 570 (2019) 19-23.
		5.	Bharadvaja A. , Kaur S. and Baluja K. L., A comparative study of electron-impact cross sections of C ₄ F ₆ isomers from 15 to 5000 eV Physics of Plasmas 26 , 063506 (2019).
		6.	Kaur, S., Baluja, K.L., Singh, J., Bharadvaja A. , "Vibrationally resolved excitation cross sections of AlO ⁺ by electron- impact using R-matrix" Eur. Phys. J. D (2019) 73: 142.
	Total		06
	Department of Polymer Science	1.	Shukla S. K. , Kushwaha C. S., et al., Chemically modified optical fibers in advanced technology: An overview, Optics & Laser Technology 115 (2019) 404-432.

2.	Barak A., Goyal Y., Kumar R., Shukla S. K. , Removal of methyl orange over TiO ₂ /polyacrylamide hydrogel, <i>Materials Today: Proceedings</i> , 12 (2019) 529-535.
3.	Kushwaha, C.S. & Shukla, S.K. , Non-enzymatic potentiometric malathion sensing over chitosan-grafted polyaniline hybrid electrode, <i>J Mater Sci</i> (2019) 54: 10846. https://doi.org/10.1007/s10853-019-03625-2
4.	Surah S.S., Vishwakarma M., Kumar R., Nain R., Sirohi S. , Tuning the Electronic Band Alignment Properties of TiO ₂ Nanotubes by Boron Doping, <i>Results in Physics</i> , 2019, 12, 1725-1731.
5.	Sirohi S. , Dobhal S., Doshi M., Nain R., Dutt K., Pani B., Eco-Friendly Synthesis of PET based Polymeric Plasticizer and its Application in Nitrile-PVC Rubber Blends". <i>Indian Chemical Engineers</i> , 61 (2019) 206-217.
6.	Sirohi S., Dobhal S., Doshi M., Nain R., Dutt K. , Pani B., Eco-Friendly Synthesis of PET based Polymeric Plasticizer and its Application in Nitrile-PVC Rubber Blends". <i>Indian Chemical Engineers</i> , 61 (2019) 206-217.
7.	Barak A. , Goyal Y., Kumar R., Shukla S. K., Removal of methyl orange over TiO ₂ /polyacrylamide hydrogel, <i>Materials Today: Proceedings</i> , 12 (2019) 529-535.
8.	Sirohi, S. , Jassal, M. & Agrawal, A.K., Surfactant-free nanoencapsulation using reactive oligomers obtained by reversible addition fragmentation chain transfer polymerization of styrene and maleic 2.93anhydride, <i>Appl Nanosci</i> (2018) 8: 1701.
9.	Nain R., Dobhal S., Bidaliya P., Saini G., Pani B., Sirohi S. , "Ag Decorated Silica Nanostructures for Surface Plasmon Enhanced Photocatalysis". <i>RSC Advances</i> 2018, 8, 20287-20294.
10.	Singh P., Shukla S. K. "Opto-Chemical Glucose Sensing Over NiO/polyaniline Hybrid Matrix Using Optical Fiber Approach". <i>Optik</i> ; 2018, 165, 94-101.
11.	Singh P., Kushwaha C. S., Shukla S. K. and Dubey G. C., "Synthesis and Humidity Sensing Property of α -Fe ₂ O ₃ And Polyaniline Composite" <i>Materials Today: Proceedings</i> ; 2018, 5, 9118-9125.
12.	Shukla S. K., Kushwaha C. S., Shukla S. K. , Dubey G. C., "Integrated Approach for Efficient Humidity Sensing Over Zinc Oxide and Polypyrrole Composite". <i>Materials Science & Engineering C</i> . 2018, 90, 325-332.
13.	Singh P., Kushwaha C. S., Shukla S. K. and Dubey G. C., "Synthesis and Humidity Sensing Properties of NiO Intercalated Polyaniline Nanocomposite". <i>Polymer-Plastics Technology and Engineering</i> . Taylor & Francis; 2018, 58(2), 139-147.
14.	Kushwaha C. S., Singh P., Shukla S. K. and Dubey G. C., "Electrochemical Urea Sensing Over Polyaniline Grafted

			Chitosan Copolymer". Materials Today: Proceedings; 2018, 5, 15253-15260.
		15.	Sharma, R., Jain, P. & Dey Sadhu, S., "Study of Morphological and Mechanical Properties of PBT/PTT Blends and Their Nanocomposites and Their Correlation". Arab J Sci Eng (2018), Page 1-14, ISSN: 2193-567X (Print) 2191-4281 (Online).
	Total		15
	Department of Zoology	1.	Anil Bali (2018). Host dependent expression of lactose (lac) promoter in Azotobacter vinelandii and streptomycin (str) promoter in Azorhizobium caulinodans. Asian Journal of Microbiology and Environmental Sciences; 20: 582-587.
	Total		01

3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	S. No.	Indexing
Department of Botany	1.	Bidalia, A; Vikram, K; Gupta, Y & Rao, K.S. (2019) Effect of Salinity on the Nutrients and Plant Health. In Dr. Mohd. Sayeed Akhtar (Ed). Salt Stress, Microbes and Plant Interactions causes and solution". Springer nature Publication, Singapore Pvt. Ltd.
Total		01
Department of Computer Science	1.	Singh, A. (2019). Use of ICT in Food and Agriculture Sector. In S. Sharma, M. Aggarwal, D. Sharma (Eds.) Food Frontier. (pp. 291-305) New Delhi, Delhi: New Delhi Publisher. ISBN No. 978-93-86453-84-6.
	2.	Srivastava, S., (2018) Model Transformation Mapping in Method Engineering-A Primer, Delhi: Serial Publications Pvt. Ltd. ISBN No. 978-93-86611-29-1.
	3.	Sharma, J., (2018) Informatics Practices Class XIth CBSE, New Delhi: B.R. International Publishers, ISBN No – 978-81-89974-59-6.
	4.	Sharma, J., (2018) "Information Technology" Class IXth CBSE, New Delhi: B.R. International Publishers, ISBN No – 978-81-89974-57-2.
Total		04
Department of Electronics	1.	Kumar, A., Bhatnagar, P. K., (2019) "Enhanced Performance of Single Layer MEH-PPV Light Emitting Diodes using Alq ₃ Electron Transporting Layer and LiF:Al Cathode Contact" in National Conference on Recent Trends & Advancement in Chemical Sciences, University of Delhi 29 th -31 st March 2019 (pp. 51)
	2.	Kumar, J., Dey, S.S., (2019) "Preparation and Characterization of Copolymer Nanocomposites suitable for Electro-Optical Devices" in National Conference on

		Recent Trends & Advancement in Chemical Sciences, University of Delhi 29 th -31 st March 2019 (pp. 51)
Total		02
Department of Food Technology	1.	Garg, M. , Sadhu, S.D, Premlata, M. and Chopra R. (2019). Advances in Food Packaging. In Sharma, S., Aggarwal, M., & Sharma, D. (Ed). Food Frontiers (pp. 157-171), New Delhi Publishers, India. ISBN NO: 9789386453846.
	2.	Sehgal, S. , & Dhewa, T. (2018). Principles of hygiene and sanitation in food service establishment. E module content for PG-Food Microbiology and Food Safety (5147) Massive Online Open Course hosted on SWAYAM portal of MHRD, GOI
	3.	Sehgal, S. (2018). Role of Consumers in Innovation of Novel Food and Beverages. In Panda, S. K., & Shetty, P. H. (Eds.). Innovations in Technologies for Fermented Food and Beverage Industries (pp. 289- 296) Springer International Publishing, New York. (ISBN: 978-3-319-74819-1 hardcopy/ISBN 978-3-319-74820-7 eBook).
	4.	Amritkar, N., Anand, D., Bhadri, A., Khaturia, A. K., Khanna, K., Krishnaswamy, S., Rao, E.S. , Roday, S., Sati, A., Sawarikar, S., Singh, M., & Singh, N., (2018). The Orange Book- Your guide for Safe and Nutritious Food at Workplace (1 st edition) FSSAI, New Delhi.
	5.	Rao, E.S. , Roday, S., Kaul, N.B., Mathur, P., Raizada, P., Sinha, A., Gupta, R & Moghe, S.B., (2018) The Yellow Book Level I, II- Safe and Nutritious Food at School 1st Edition, FSSAI, New Delhi.
	6.	Sadhu, S. D., Premlata, M., & Garg, M. (2018). Nano-Separation Techniques For Water Resources. In Mishra, A. K., & Chaudhery, M. H. (Eds.). Nanotechnology for Sustainable Water Resources. (pp. 523-558), Scrivener Publishing, India. ISBN: 9781119323655.
	7.	Garg, M. , Gupta, P., Sadhu, S. D., & Alam, T. Review of Current Issues on Plastic Banning- An Approach Towards the Solution for Consumer Plastic Food Packaging and Waste Management Model. Processed Food Industry, 2018 vol.9, pp 29-43.
	8.	Sadhu, S. D., Kumar, A., & Garg, M. (2018). Major Environmental Issues & New Materials. In Mishra, A., & Chaudhery M. H. (Eds.). New Polymer Nanocomposites for Environmental Remediation, (pp. 77-98), Elsevier, UK. ISBN: 9780128110331
Total		08
Department of Human Communication	1.	Bajpai, M. (2018). "Understanding your Adolescent", in Art and Science of Parenting, ed. Mishra, A. K. and Chadha, N. K. (A. K. Mishra"s Art of Success Private

		Limited, India) 131 - 182. ISBN: 978-81-93-7852-0-1.
	2.	Bajpai, M. (2018). "Effective Parenting Skills", in Art and Science of Parenting, ed. Mishra, A. K. and Chadha, N. K. (A. K. Mishra's Art of Success Private Limited, India) 131 - 182. ISBN: 978-81-93-7852-0-1.
Total		02
Department of Instrumentation	1.	Rakesh, Bhatt, G. , Kumar, A., Kapoor, A. (2019) Enhancement of sensitivity in ZnO based refractive index sensor. Abstract in the Proceedings of the International Conference on Physics, Society and Technology (pp. 48).
	2.	Rakesh, Bhatt, G., Kumar, A. , Kapoor, A. (2019) Enhancement of sensitivity in ZnO based refractive index sensor. Abstract in the Proceedings of the International Conference on Physics, Society and Technology (pp. 48)
	3.	Kumar, M., Kumar, A. , Khanna, M.K., Kapoor, A (2019) Design of high extinction ratio TM pass polarizer using graphene-based waveguide structure. Abstract in the Proceedings of the International Conference on Physics, Society and Technology (pp. 44)
	4.	Rakesh , Bhatt, G., Kumar, A., Kapoor, A. (2019) Enhancement of sensitivity in ZnO based refractive index sensor. Abstract in the Proceedings of the International Conference on Physics, Society and Technology (pp. 48)
	5.	Kumar, M. , Kumar, A., Khanna, M.K., Kapoor, A (2019) Design of high extinction ratio TM pass polarizer using graphene-based waveguide structure. Abstract in the Proceedings of the International Conference on Physics, Society and Technology (pp. 44)
	6.	Saini, B. , Sharma, S., Kaur, R., Pal, S., Kapoor, A. (2019) "Improved Extraction of Photo-Generated Carriers in InGaN MQWSC: Effect of Staggered Quantum Wells with Triple Indium Content" The Physics of Semiconductor Devices, Springer Proceedings in Physics, vol 215, Chapter-73, pp 469-475, Springer, Cham, Online ISBN: 978-3-319-97604-4.
	7.	Bhatt, G. (Ed) (2018). Triple Denial of Justice, Dignity and Equality. New Delhi: Ram Communication. ISBN 978-93-84835-25-5.
	8.	Bhatt, G. (Ed). (2018). मैभीनारीहूँ , New Delhi: Ram Communication. ISBN 978-93-84835-26-2.
Total		08
Department of Polymer Science	1.	Shukla S.K. (2019) Polymer-Based Catalysts for Water Purification: Fundamentals to Applications. In: Das R. (eds) Polymeric Materials for Clean Water. Springer Series on Polymer and Composite Materials. Springer, Cham
	2.	Garg, M, Sadhu, S.D , Premlata, M. and Chopra R.

		(2019). Advances in Food Packaging. In Sharma, S., Aggarwal, M., & Sharma, D. (Ed). Food Frontiers (pp. 157-171), New Delhi Publishers, India. ISBN NO: 978-93-86453-84-6.9789386453846.
	3.	Garg, M, Sadhu, S.D, Premlata, M. and Chopra R. (2019). Advances in Food Packaging. In Sharma, S., Aggarwal, M., & Sharma, D. (Ed). Food Frontiers (pp. 157-171), New Delhi Publishers, India. ISBN NO: 978-93-86453-84-6.9789386453846.
	4.	Dey Sadhu, S , Kumar. A., and Garg, M. (2018) Major Environmental Issues & New Materials. In: New Polymer Nanocomposites for Environmental Remediation. Elsevier, eBook ISBN: 9780128110348.
	5.	Garg, M., Gupta, P., Dey Sadhu, S. and Alam T. (2018) Review of Current Issues on Plastic Banning-An Approach Towards the Solvation for Post-Consumer Plastic Food Packaging and Waste Management Model; Processed Food Industry, September 2018, (page 29-33).
	6.	Sadhu, S. D. , Premlata, M., &Garg, M. (2018). Nano-Separation Techniques For Water Resources. In Mishra, A. K., &Chaudhery, M. H. (Eds.). Nanotechnology for Sustainable Water Resources. (pp. 523-558), Scrivener Publishing, India. ISBN: 9781119323655.
	7.	Sadhu, S. D., Premlata, M. ,& Garg, M. (2018). Nano-Separation Techniques For Water Resources. In Mishra, A. K., &Chaudhery, M. H. (Eds.). Nanotechnology for Sustainable Water Resources. (pp. 523-558), Scrivener Publishing, India. ISBN: 9781119323655.
Total		07

3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year:

Attended Seminars/ Workshops	S. No.	Details of Seminars/Conferences and Symposia during the year
(A) International level	1.	Dr. N. S. Abbas: Participated in International Conference on “Environmental Analysis India” held in Radisson Blu Hotel Paschim Vihar, New Delhi, India on April 25-26, 2019.
	2.	Dr. Sujata Bhardwaj: Participated in International Conference on “Environmental Analysis India” held in Radisson Blu Hotel Paschim Vihar, New Delhi, India on April 25-26, 2019.
	3.	Dr. Sujata Bhardwaj: Participated International Conference on “Contemporary Issues in Integrating Health and Nutrition with the Emerging Areas of Food Technology, Agriculture, Environment and Allied Sciences” in Shyama Prasad Mukherji College for Women, University of Delhi on April 06, 2019.
	4.	Dr Geeta Mongia: Attended an International Seminar on ‘GENDER PARITY: Issues and Challenges’ organised by

		Women Development Cell of Shivaji College, University of Delhi on January 15-16, 2019.
	5.	Dr. Uma Dhawan: Attended Animal Behaviour and Welfare workshop of International Society for Applied Ethology organized by CSIR-IGIB, Delhi on December 08, 2018.
	6.	Dr. Sujata Bhardwaj: Participated in “Indian International Science Festival” organized by Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indira Gandhi Pratishthan, Lucknow on October 05-08, 2018.
	7.	Dr. N. S. Abbas: Participated in “Indian International Science Festival” organized by Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indira Gandhi Pratishthan, Lucknow on October 05-08, 2018.
	8.	Dr. Meenakshi Garg: Attended International Conference on “Polymer Waste Management” on September 28, 2018 at India Habitat Centre, New Delhi.
	9.	Dr. Eram S Rao: Attended the International Conference on “Recent Advances in Food Fortification with emphasis on Vitamin D Deficiency in human health” September 15-16, 2018.
	Total	09
(B) National level	1.	Ms. Shweta Gupta: Attended a UGC sponsored short term course on MOOCs, E-Learning and ICT from June 15-21, 2019 at CPDHE, University of Delhi
	2.	Mr. Bhavya Deep: Participated in Faculty Development Program on “Deep Learning and Applications” conducted by Electronics and ICT Academy, IIT Roorkee at Indian Institute of Technology, Roorkee from May 27-31, 2019.
	3.	Dr. Sujata Bhardwaj: Participated National Symposium on “Recent Advances in Biological Sciences” organized by Department of Biochemistry, Shivaji College, University of Delhi on April 10, 2019.
	4.	Dr. Ragini Jindal: National Conference on Recent Trends and advancements in Chemical Sciences held at Conference Centre, University of Delhi March 29-31, 2019.
	5.	Dr. Amit Kumar: Attended National Conference on Recent Trends & Advancement in Chemical Sciences, University of Delhi March 29-31, 2019.
	6.	Dr. Anil Barak: National Conference on Recent Trends and Advancements in Chemical Sciences at Conference Center, University of Delhi on March 29-31, 2019.
	7.	Dr. Avneesh Mittal: Attended Workshop on MOOCs, E-Content Development and Open Educational Resource scheduled to be held from March 13-19, 2019 at CPDHE, University of Delhi.
	8.	Dr. Amit Kumar: Attended Workshop on MOOCs, E-Content Development and Open Educational

	Resource scheduled to be held from March 13-19, 2019 at CPDHE, Delhi University.
9.	<u>Dr. Salam Sonia Devi:</u> Participated in one day workshop on “recent Trends in Plant Systematics and Future prospects” on March 12, 2019.
10.	<u>Mr. Ramesh Kumar:</u> Participated in UGC sponsored Refresher course in “Physics” at Human Resource Development Centre, Himachal Pradesh University, Shimla from March 11-30, 2019.
11.	<u>Dr. Ragini Jindal:</u> National Conference on Complex Systems in Interdisciplinary Sciences held at Jamia Milia Islamia, New Delhi from March 11-12, 2019.
12.	<u>Dr. Jitendra Kumar:</u> Attended one-week Workshop on MOOCs, E-Content Development and Open Educational Resource held from February 25-March 02, 2019 at Jamia Milia Islamia, New Delhi.
13.	<u>Ms. Manu Kataria:</u> Co-Convened the workshop on February 19, 2019 on “Data Sciences using R Technology” with DUCAT.
14.	<u>Dr. Sangeeta Srivastava:</u> Convened the workshop on February 19, 2019 on “Data Science Using R Technology” with DUCAT.
15.	<u>Dr. Avneesh Mittal:</u> Attended One day National Workshop on ‘Central Public Procurement Portal’ held on January 21, 2019 organized jointly by Department of Expenditure and National Informatics Centre, Ministry of Electronics & Information Technology at Delhi.
16.	<u>Dr. Meenakshi Garg:</u> Attended one day CII-SKA- GSKCH-CIIF Training of Facilitators for Food Safety in Midday Meal Segment on December 28, 2018 at CII Head Office, New Delhi
17.	<u>Dr. Rizwana:</u> Attended “Platinum Jubilee Conference of All India Food Processors” Association on December 20-21, 2018 at Vigyan Bhavan, New Delhi.
18.	<u>Dr. Roshan Lal:</u> Participated in “Platinum Jubilee Conference of All India Food Processor Association” held on December 20 – 21, 2018 at Vigyan Bhawan, New Delhi.
19.	<u>Dr. Meenakshi Garg:</u> Attended “Platinum Jubilee Conference of All India Food Processors Association” on December 20 – 21, 2018, Vigyan Bhavan, New Delhi
20.	<u>Dr Avneesh Mittal:</u> Attended 7 Days Short Term Course on ‘Research Methodology’ held from December 18 – 24, 2018 organized by Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.
21.	<u>Dr. Siddartha Sirohi:</u> Attended UGC sponsored Short Term Course on Disaster Management from December 17-21, 2018 at Jawaharlal Nehru University, Delhi.

	22.	Dr. Meenakshi Garg: Attended 13th Food Safety & Quality Summit - Managing Product Integrity, Regulatory and Food Safety Solutions in the Food Chain for Consumer Health and Safety on December 13-14, 2018, New Delhi.
	23.	Dr. Rizwana: Attended 13 th CII Food Safety, Quality and Regulatory Summit on December 13-14, 2018.
	24.	Dr. Eram S Rao: Attended National Conference on “Role of Probiotics in promoting healthy Microbiome for health and Immunity” on December 06, 2018, New Delhi.
	25.	Dr. Eram S Rao: Attended National Food Processing Conclave- Road map for Indian Food Processing Industry-2.0” on November 30, 2018
	26.	Dr Avneesh Mittal: Attended 3-weeks Refresher Course in ‘Social Concerns and Social Science’ held from November 27 – December 17, 2018 organized by Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.
	27.	Dr. Ragini Jindal: Participated in National level FDP on “Software Packages for Mathematical Sciences” (Ministry of Human Resources Development Initiative under PMMMNMTT) held at Hansraj College, University of Delhi from November 14-19, 2018.
	28.	Dr. Shubhra Barwa: Participated in National Workshop on “Pedagogy and ICT Tools for Assessment” at Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi on October 18, 2018.
	29.	Dr. Rizwana: Attended World Food Day 2018 on Building partnerships to achieve the global goal of #zero hunger organised by AFSTI and FICCI on October 16, 2018, at FICCI Federation House, New Delhi.
	30.	Dr. Anita Sondhi: Faculty Development Program cum Workshop on “Climate Across the Curriculum: Resources for Integrating Climate Topics” in “Discipline Specific Teaching” organized by Sri Venkateswara College (SVC), Delhi University in collaboration with “TROPISCU 9, a climate Education Project funded by the International Council for Science and IISER, Pune on October 13-14, 2018.
	31.	Dr. Sujata Bhardwaj: Participated in the Faculty Development Program cum Workshop on “Climate Across the Curriculum: Resources of Integrating Climate Topics in Discipline-Specific Teaching” organized by IQAC, Sri Venkateswara College (SVC), University of Delhi (DU) in collaboration with TROPISCU, a climate Education Project funded by International Council of Science (ICSU) & IISER, Pune, India on October 13 -14, 2018.
	32.	Dr. Geeta Mongia: Attended Faculty Development Program cum workshop on ‘Climate Across the curriculum: Resources for Integrating Climate Topics in Discipline-Specific Teaching’ organised by IQAC, Sri Venkateswara College

		(SVC), University of Delhi, in collaboration with TROPICSU, a Climate Education Project, Pune, India on October 13-14, 2018.
33.	Dr. Jitendra Kumar:	Attended two days Faculty Development program (FDP) cum workshop on the topic “Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline –Specific Teaching” held at Sri Venkateshwara College, DU on October 13-14, 2018.
34.	Dr. Inderbir:	Participated in two days FDP cum Workshop on “Climate across the curriculum: Resources for integrating climate topics in Discipline specific teaching “organised by IQAC, Sri Venkateshwara College, University of Delhi, in collaboration with TROPICSU, a climate education project funded by the International Council for Science and IISER, Pune, on October 13-14, 2018.
35.	Dr. Shubhra Barwa:	Attended FDP cum workshop on “Climate Across Curriculum: Resources for Integrating Climate Topics in Discipline-Specific Teaching” at Sri Venkateshwara College, University of Delhi on October 13-14, 2018.
36.	Ms. Shweta Dua:	Attended FDP cum workshop on “Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline Specific Teaching” organised by Sri Venkateshwara College, University of Delhi in collaboration with TROPICSU & IISER during October 13-14, 2018.
37.	Dr. Ruchi Gulati Marwah:	Attended Faculty Development Programme cum Workshop on “Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline- Specific Teaching” organized by IQAC, Sri Venkateshwara College, University of Delhi from October 13-14, 2018.
38.	Dr. Neha Bansal:	Attended Faculty Development Programme cum Workshop on “Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline- Specific Teaching” organized by IQAC, Sri Venkateshwara College, University of Delhi from October 13-14, 2018.
39.	Dr. Uma Chaudhary:	Participated in the “National Science Teachers Congress of the Indian International Science Festival” organized by Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indira Gandhi Pratishthan, Lucknow on October 05-08, 2018.
40.	Mr. Bhavyadeep:	Participated in IDA Connect Workshops at DIDAC India 2018 for the session “National Workshop on Pedagogy and ICT Tools for Assessment”, conducted by GAD TLC of MHRD, October 4–6, 2018.
41.	Dr. Rizwana:	Attended a Two-day Training Workshop on The Sexual Harassment of Women at Work-place (Prevention, Prohibition & Redressal) Act, 2013 [With

	special emphasis on the working of ICC and LCCs] organised by National Law University, Delhi under the aegis of National Academy of Law Teachers on and October 06-07, 2018.
42.	<u>Dr. Madhulika Bajpai:</u> Participated in the Annual Second Fortis Annual Psychology Conference on "Situating Culture in Applied Psychology" held at Fortis Memorial Research Institute, Gurgaon between October 05-07, 2018.
43.	<u>Dr. Eram S Rao:</u> Attended National Conference on "Recent Innovations and Technological developments in Food Science & Technology" on 28 September 2018 at Amity University.
44.	<u>Dr. Eram S Rao:</u> Attended Face- CII "National Post Harvest and Logistics Summit" on September 25, 2018 held in New Delhi
45.	<u>Dr. Rizwana:</u> Attended National Post harvest & Logistics summit organised by Face and NCCD on September 25, 2018.
46.	<u>Dr. Meenakshi Garg:</u> Attended 5 days Faculty Development Program in Shyama Prasad Mukherjee College (University of Delhi) from September 22-26, 2018.
47.	<u>Dr. Susmita Dey Sadhu:</u> Attended 5-day Faculty Development Program in Shyama Prasad Mukherjee College, University of Delhi from September 22-26, 2018.
48.	<u>Dr. N. Vijaya Kumar:</u> Attended two-day workshop on "Intellectual Property Right" on September 13-14, 2018, organized by Institute of Home Economics.
49.	<u>Dr. Salam Sonia Devi:</u> Attended Conclave on "Biodiversity for Everyone's Life" organized by Miranda House, University of Delhi and Institute of Bio resources and Sustainable Development (IBSD), Manipur on August 31, 2018 at Miranda House, University of Delhi.
50.	<u>Dr. Eram S Rao:</u> Participated and organized as a President AFST (I) a National Seminar on "Skill Enhancement and Entrepreneurship Development in Soy Food Processing" on August 07, 2018.
51.	<u>Dr. Rizwana:</u> Attended a seminar on "Skill Enhancement and Entrepreneurship Development in Soy Food Processing" on August 07, 2018, New Delhi organised by AFSTI and USSEC (US Soybean Export Council).
52.	<u>Dr. Sangeeta Srivastava:</u> Participated in Faculty Development Program on "Introduction to R Programming" at Janki Devi Memorial College from August 06-07, 2018.
53.	<u>Dr. Shivani Varmani:</u> Attended FDP on "Introduction to R Programming" at Janaki Devi Memorial College, University of Delhi on August 06-07, 2018.
54.	<u>Dr. Anil Barak:</u> Attended National Conference on Materials and Devices (NCMD-2018) held from July 31, 2019 - August 01, 2018 at Sharda University, Greater Noida.
55.	<u>Dr. Eram S Rao:</u> Participated as a panellist in the

		Symposium on “Edible Oil Blends- The Indian Perspective” on 28 July 2018, New Delhi.
56.	Dr. Eram S Rao:	Participated in FSSAI-ReCHAn Forum “Regulatory Approaches to the establishment of maximum levels in Health Supplements & Nutraceuticals.” on July 25, 2018 held in New Delhi.
57.	Dr. Ruchi Gulati Marwah:	Participated in a “Refresher Course in Life Sciences” from July 17 – August 06, 2018 organized by Centre for Professional Development in Higher Studies (CPDHE), University of Delhi.
58.	Dr. Rizwana:	Attended seminar on “Creating Awareness Among FBO.s & SME.s on Flavourings, Safety Evaluations of Flavours and Emerging trends in Food Flavourings Ecosystem. on June 05, 2018, FICCI, New Delhi.
59.	Dr. Eram S Rao:	Participated in a seminar on “Creating awareness among FBO.s & SME.s on Flavourings, Safety Evaluations of Flavours and emerging trends in Food Flavourings ecosystem” on June 05, 2018, FICCI New Delhi.
60.	Mr. Sanyam Gupta:	Participated in the “33rd Annual Conference of The Ramanujan Mathematical Society” on June 1-3, 2018 at Department of Mathematics, University of Delhi, Delhi.
61.	Dr. Shalini Sehgal:	Attended Stakeholder Workshop with Academia-Industry-Alumni-for Curriculum Modification and Pedagogy Development at ICAR NDRI, Karnal from June 01-02, 2018.
62.	Dr. Uma Dhawan:	Attended a workshop on “Sexual Harassment of Women at Workplace” (Prevention, Prohibition and Redressal Act, 2013) organized by Internal Complaints Committee, JNU on May 01-02, 2018.
63.	Dr. Rizwana:	Attended a seminar on “Recent Developments in Food Science and Technology for Better Nutrition” organized by ILSI, New Delhi, India on April 27, 2018.
64.	Dr. Eram S Rao:	Attended ILSI- India Seminar on “Recent Developments in Food Science and Technology for Better Nutrition” on 27 April 2018.
65.	Dr. Eram S Rao:	Participated in “Workshop on GST” organized by AFST (I) Mysore, on 24 April 2018.
66.	Dr. Uma Chaudhary:	Participated as a Trainer in the DBT Foldscope Orientation Workshop organized by the Department of Biotechnology (DBT) on April 16-17, 2018 at International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi.
67.	Mrs. Aarti Dua:	Participated in a three-day workshop on Cyber Security from April 13-15, 2018 at Deen Dayal Upadhyaya College, University of Delhi.
68.	Mr. Manoj Kumar:	Attended a three-day workshop on “Cyber Security. organized by Department of Electronics under the aegis of DBT Star College Program held at DeenDayal Upadhyaya College, University of Delhi during

		April 13-15, 2018.
	69.	Mr. Pawan Kumar: Attended a three-day workshop on “Cyber Security” organized by Department of Electronics under the aegis of DBT Star College Program held at Deen Dayal Upadhyaya College, University of Delhi during April 13-15, 2018.
	70.	Dr. Eram S Rao: Participated and Organised as President of AFST (I) Delhi Chapter, National conference on “Impact of Food Processing Sector on Indian Economy” on April 13, 2018.
	71.	Dr. Madhulika Bajpai: Attended a one-day National Conference on “New India: Higher Education Strategy” organized by Dakshina Foundation in collaboration with Shiksha Sansthan Utthan Nyas, Bhartiya Shikshan Mandal and Indira Gandhi National Centre for Art held on April 13th, 2018 at Indira Gandhi National Centre for Art, Delhi.
	72.	Dr. Shubhra Barwa: Participated in National Conference on “Scientific Innovation-A Head Start” at St. Stephen’s College, University of Delhi on April 05-06, 2018.
	73.	Dr. Neha Singh: Participated in GIAN course titled “RNA Metabolism and Neurodegenerative Disorders” from April 02-07, 2018 at Department of Chemistry, University of Delhi.
	74.	Mr. Rakesh: Participated in the workshop on “VLSI Current Trends Using Mentor Graphics & Xilinx” organized by Department of Electronic Science, University of Delhi, South Campus and CoreEL Technologies held on March 21-22, 2018.
	75.	Dr. Shubhra Barwa: Attended Faculty Empowerment Workshop on “Stress Management and Emotional Intelligence in Teaching Learning Environment” at Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi on March 17, 2018.
	76.	Dr. N. S. Abbas: Coordinator for the workshop cum hands-on-training programme on “Molecular Diagnostics of Infectious Diseases: Advances and its Applications” organized by Dr. B.R. Ambedkar Centre for Biomedical Research in collaboration with Bhaskaracharya College of Applied Sciences (BCAS) held during March 16-17, 2018.
	Total	76
(C) State level	1.	Mr. Bhavya Deep: Participated in Faculty Development Program on Oracle “Java Fundamentals and Programming” during June 10–14, 2019. The FDP was organized by ICT Academy and Oracle Academy at JIMS Engineering Management Technical Campus, Greater Noida.
	2.	Mr. Bhavya Deep: Attended Online Conference by AWS on 30 th May 2019 towards learning of essential AWS core services for compute, storage, database and networking.

	3.	Mr. Bhavya Deep: Participated in a workshop titled “Internet of Things” by DUCAT held in the college on January 10, 2019.
	4.	Dr.Eram S Rao: Organized and participated as a President of AFST (I) Delhi Chapter “Food Safety Training Workshop for students” at the CII Food Safety and Quality and Regulatory Summit on December 14, 2018, New Delhi.
	5.	Dr.Eram S Rao: Organized and participated as a President of AFST (I) Delhi Chapter National Seminar on World Food Day- 16 October 2018 on “Building Partnerships to achieve the Global Goal of #ZERO HUNGER”
	6.	Mr. Bhavya Deep: Co-convenor for AWS Cloud Literacy Day Workshop organized by Department of Computer Science, BCAS in collaboration with ICT Academy on October 8, 2018.
	7.	Dr. Shivani Varmani: Participated in the session on Pedagogy & Research Tools by “GADTLC” at IDA Connect workshops organized by DIDAC India on October 04-06, 2018.
	8.	Ms. Anshika Singh: Attended one-week Faculty Development Program on “Horton Hadoop Developer” organized by Department of Computer Science, Ram Lal Anand College, University of Delhi, on May 21-25, 2018.
	9.	Dr.Rizwana: Attended a two-day workshop on Sexual Harassment of Women at the Workplace (Prevention, Prohibition and Redressal) Act, 2013 on May 01-02, 2018 organized by ICC, Jawaharlal Nehru University, New Delhi
	10.	Dr.Avneesh Mittal: Attended two-days Functional Efficiency Training program on “Public Procurement under GFR2017 including e-Procurement and GeM” The training was conducted by Directorate of Training, Union Territories Civil Services, Govt. of National Capital Territory of Delhi on April 17-18, 2018.
	Total	10
(D) Local level	1.	Dr.Ragini Jindal: One Day workshop on ‘Data Science with R Language’ held on February 19, 2019 at BCAS, University of Delhi
	2.	Mr. Sanyam Gupta: One Day workshop on ‘Data Science with R Language’ held on February 19, 2019 at BCAS, University of Delhi.
	3.	Mr. Bhavyadeep: Participated in one-day workshop on “Data Science with R Language” organized by Department of Computer Science in collaboration with DUCAT, BCAS on February 19, 2019.
	4.	Ms. Anshika Singh: Attended one day workshop on “Data Science with R- Language” organized by Department of Computer Science, Bhaskaracharya College of Applied Sciences, University of Delhi on February 19, 2019.
	5.	Dr.Rajwant Kaur: Attended one day workshop on “Data Science with R- Language” organized by Department of

		Computer Science, Bhaskaracharya College of Applied Sciences, University of Delhi on February 19, 2019.
	6.	<u>Dr. Geeta Bhatt:</u> Participated in one day workshop on “Internet of Things. organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
	7.	<u>Ms. Gurkiran Kaur:</u> Participated in one day workshop on “Internet of Things” organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
	8.	<u>Ms. Shweta Dua:</u> Participated in one day workshop on “Internet of Things” organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
	9.	<u>Dr. Anil Kumar:</u> Participated in one day workshop on “Internet of Things” organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
	10.	<u>Mr. Pawan Kumar:</u> Participated in one day workshop on “Internet of Things” organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
	11.	<u>Mr. Rakesh:</u> Participated in one day workshop on “Internet of Things” organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
	12.	<u>Mr. Manoj Kumar:</u> Participated in one day workshop on “Internet of Things” organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
	13.	<u>Dr. Amandeep Kaur:</u> Participated in one day workshop on “Internet of Things” organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
	14.	<u>Mr. Basant Saini:</u> Participated in one day workshop on “Internet of Things” organized by Department of Instrumentation, BCAS in collaboration with DUCAT on January 10, 2019.
	15.	<u>Mr. Bhavyadeep:</u> Participated in one day seminar on “Opportunities in Sciences, Challenges and Way Forward” held on October 5, 2019 under the aegis of Training and Placement cell of the College.
	Total	15
Presented papers	S. No.	Details of Seminars/Conferences and Symposia during the year
(A) International level	1.	<u>Mrs. Arti Dua:</u> Presented paper titled “Identifying Forged Images using Image Metadata” in International conference on Emerging Trends in Information Technology held on June 21-22, 2019 at Institute of Information Technology and Management, New Delhi.

	2.	<u>Dr. Roshan Lal:</u> Presented poster on Paper entitled "Study on the Chemical and Microbiological Characteristic of Spiced Paneer of Different Formulation" at the International Conference on Microbes for Biotechnological Innovations (MBI- 2018) at M.D University, Rohtak, Haryana, India on December 07, 2018
	3.	<u>Mr. Sanvayam Gupta:</u> Presented paper titled 'Optimal Investment Decision Model Based on Simplex Algorithm with Variable Optimal Value Evaluation Process' at International Conference on Applied and Computational Mathematics-2018 on November 23-25, 2018 held at Indian Institute of Technology Kharagpur, India.
	4.	<u>Dr. Madhulika Bajpai:</u> Presented a paper in absentia "Indian Lifestyle Interventions in Stress Management" in "International Conference on Stress Management (ICSM2018)" held at Hyderabad between November 11-12, 2018.
	5.	<u>Dr. Tanya LuvaSwar:</u> Presented a poster entitled "Application of anthocyanins extracted from Prunus nepalensis L. in food processing" on September 15-16, 2018 at International Conference "Recent Advances in Food Fortification with Emphasis on Vitamin D Deficiency in Human Health" held in Jamia Hamdard, New Delhi
	6.	<u>Mr. Bhavyadeep:</u> Presented paper on "An Approach towards more Accurate Forecasts of Air Pollution Levels through Fog Computing and IoT", in International Springer Conference on ICT for Sustainable Development co-located with International Research Symposium on Computing and Network Sustainability held during August 30-31, 2018 at Goa, India.
	7.	<u>Dr. N. Vijaya Kumar:</u> Participated and presented a research paper on "Fungal Pathogenesis" in Indo Caribbean Conference held on July 18-19, 2018 organized by Shriram College of Pharmacy, Madhya Pradesh Council of Science and Technology.
	8.	<u>Mr. Bhavyadeep:</u> Presented paper on "Content Rating Technique for Cloud Oriented Content Delivery Network using Weighted Slope One Scheme", in IEEE CLOUD 2018 Conference on July 2, 2018 by IEEE World Congress on Services, held at San Francisco, California, USA.
	9.	<u>Mr. Sandeep Kumar:</u> Presented a paper on "Effect of particle size variation on dual-layer broadband U-type hexaferrite microwave absorber", in E-MRS Spring Meeting, 2018 held at Strasbourg, France from June 18-22, 2018.
	Total	09
(B) National level	1.	<u>Dr. Susmita Dey Sadhu:</u> Presented paper in "National Conference on Recent Trends and Advancements in Chemical Sciences" at Conference Center, University of Delhi on 29-31 March, 2019
	2.	<u>Dr. Prem Lata Meena:</u> Presented paper & poster in National

		Conference on Recent Trends and Advancements in Chemical Sciences at Conference Center, University of Delhi on 29-31 March, 2019.
	3.	Dr. Uma Chaudhary: Presented a poster entitled “Tackling antibiotic resistance menace: Antibiotics, food safety and the growing needs for concerted efforts” at “One Health India Conference” held on February 18-19, 2019 at New Delhi by Department of Biotechnology (DBT).
	4.	Dr. S. K. Shukla: Invited talk in National symposium on Advanced Materials Science held from December 07– 08, 2018 at DeenDayalUpadhaya Gorakhpur University.
	5.	Dr.Madhulika Bajpai: Presented a paper on “Lifestyle Interventions in Stress Management: The Indian Way”. Paper presented in the Annual Second Fortis Annual Psychology Conference on "Situating Culture in Applied Psychology" held at Fortis Memorial Research Institute, Gurgaon between October 5-7, 2018.
	6.	Dr.Susmita Dey Sadhu: Presented paper in “New Trends in Nanotechnology and Application”. NTNA-2018 at ARSD, University of Delhi from September 27-28, 2018
	7.	Dr. Prem Lata Meena: Presented paper in “New Trends in Nanotechnology and Application” NTNA-2018 at ARSD, University of Delhi from September 27-28, 2018.
	8.	Dr. Anil Barak: Presented paper in “Simultaneous Extraction of Nano Size Cellulose and Silica from The Rice Husk” in National Seminar on “New Trends in Nanotechnology and Applications” NTNA-2018 at Atma Ram Sanatan Dharma College, University of Delhi on September 27-28, 2018.
	9.	Dr. Meenakshi Garg: Presented a paper on “Preparation and Mechanical Properties of Vegetable Oil Based Polymer and PVA Blend” at the National Conference on New Trends in Nanotechnology and Application” on September 27-28, 2018, ARSD College, New Delhi.
	10.	Dr.Eram S Rao: Presented a Paper on “Innovation in Food Safety Manufacturing through three elements: Food Traceability, Compliance and Quality Control” at the Pre-Connect Congress on “Nutritional Science and Functional Foods” August 28-29, 2018 New Delhi.
	11.	Dr.S.K. Shukla: National Conference on Materials and Devices (NCMD-2018) held from July 31 - August 01, 2018 at Sharda University, Greater Noida
	Total	11
	(C) State level	None this year

(D) Local level		None this year
Resource Persons	S. No.	Details of Seminars/Conferences and Symposia during the year
(A) International level		None this year
(B) National level	1.	Dr. Anjali Saxena: Participated as resource person in “one day workshop on Foldscope” conducted by the Department of Biomedical Science of Acharya Narendra Dev College on February 02, 2019.
	2.	Dr. Pallee Shree: Participated as resource person in “one day workshop on Foldscope” conducted by the Department of Biomedical Science of Acharya Narendra Dev College on February 02, 2019.
	3.	Dr. Eram S Rao: Invited Speaker for Training Workshop on “Environmental Health in Disaster and Emergencies” on “Food & Water Safety during Disasters & Emergencies” at Vardhaman Medical College Safdarjung Hospital, New Delhi on January 16, 2019.
	4.	Ms. Manu Kataria: Invited as a Resource Person by The Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, Conducted by University of Delhi on Refresher Course in “Gender Studies (IDC) for the University and College teachers of all streams (Humanities, Commerce & Science etc.)” from January 15 – February 05, 2019.
	5.	Dr. Geeta Bhatt: Delivered a talk as resource person on “Gender Challenges among Minorities” on January 19, 2019 in a Refresher Course in Gender Studies (IDC) organised by CPDHE (UGC-HRDC), University of Delhi during January 15 - February 05, 2019.
	6.	Dr. Uma Chaudhary: Invited as a Resource Person for the workshop entitled “Hands-on-Training in molecular techniques in Biotechnology” held at the Sri Tikaram Kanya Mahavidyalaya, Aligarh from December 05-07, 2018.
	7.	Dr. Uma Dhawan: Convener for the two-day workshop on “Handling and Care of Laboratory Animals” organized by the Department of Biomedical Science in association with CLAR, SLS, JNU on October 31- November 01, 2018.
	8.	Dr. Uma Chaudhary: Resource person of foldscope in the “North East Students Conclave of Indian International Science Festival” organized by Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indira Gandhi Pratishthan, Lucknow from October 05-08, 2018.

	9.	<u>Mrs. Aarti Dua:</u> Resource person to take a session on “Hot Potatoes - An ICT Tool formaking InteractiveAssessments”, in one-week faculty development program titled e-Learning, MOOCs and ICT Tools for making Interactive Assessments at Guru Angad DevTeaching Learning Centre, A Centre of MHRD under PMMMMNMTT held on dated July 5,2018.
	10.	<u>Dr. Geeta Bhatt:</u> Participated as Resource Person in the Faculty Development Program on “Environment Sustainability and Higher Education” organized by Dyal Singh College, University of Delhi during June 04-11, 2018
	11.	<u>Dr. S. K. Shukla:</u> Invited lecture in the Department of Applied Chemistry (DTU), TEQIP-III sponsored one-week faculty Development Program June 04–08, 2018 at DTU, Delhi.
	12.	<u>Dr. Neha Singh:</u> Invited as resource person for “Foldscope Making Session” during the Science Fusion program at Vigyan Prasar, Noida on May 25, 2018.
	13.	<u>Dr. Shalini Sehgal:</u> Resource Person for the induction training for Food Safety Officers of Manipur and other NE States training of Food Safety Officers at Imphal on May 14, 2018.
	14.	<u>Dr. Uma Dhawan:</u> Resource Person for MHRD GIAN Course on “RNA Metabolism and Neurodegenerative Diseases” held from April 02-07, 2018 at University of Delhi.
	Total	14
(C) State level	1.	<u>Dr.Avneesh Mittal:</u> Delivered two lectures in “3-Days Capacity Building INSET Program” at SV (New PoliceLine), Delhi, on February 06, 2019 conducted by SCERT, Delhi.
	2.	<u>Dr.Avneesh Mittal:</u> Delivered two lectures in “3-Days Capacity Building INSET Program” at SBV (ShaheedHemu Kalani), Lajpat Nagar, on February 01, 2019 conducted by SCERT, Delhi.
	Total	02
(D) Local level		None this year