# ACHARYA NARENDRA DEV COLLEGE COMPLETION REPORT 2017-2020



# Submitted to DBT

#### Acharya Narendra Dev College Completion Report Completion Report of Strengthening Component (22.05.2017 to 21.05.2020) Acharya Narendra Dev College

## Proforma for submission of Completion Report supported under Star College Scheme

- 1. Name of the College : Acharya Narendra Dev College
- 2. Name of Coordinator, Designation, Address, Phone nos.

S. No.	Department	Details of Coordinators
1	Biomedical Science	Dr. Archna Pandey Designation: Associate Professor Complete Address: Department of Biomedical Science Phone: 9811525520 Email: <u>archanapandey@andc.du.ac.in</u>
2	Botany	Dr. Rashmi Sharma Designation: Assistant Professor Complete Address: Department of Botany Phone: 7011301160 Email: <u>rashmisharma@andc.du.ac.in</u>
3	Chemistry	Prof. Sunita Hooda Designation: Professor Complete Address: Department of Chemistry Phone: 9311830222 Email: <u>sunitahooda@andc.du.ac.in</u>
4	Computer Science	Dr. Harita Ahuja Designation: Professor Complete Address: Department of Computer Science Phone: 9818511338 Email: <u>haritaahuja@andc.du.ac.in</u>
5	Electronics	Dr. Ravneet Kaur Designation: Associate Professor Complete Address: Department of Electronics Phone: 9810836367 Email: <u>ravneetkaur@andc.du.ac.in</u>
6	Physics	Dr. Arijit Chowdhuri Designation: Professor Complete Address: Department of Physics Phone: 9811124002 Email: <u>arijitchowdhuri@andc.du.ac.in</u>
7	Zoology	Dr. Seema Makhija Designation: Professor Complete Address: Department of Zoology Phone :9136563762 Email: <u>seemamakhija@andc.du.ac.in</u>

## 4. Details of Departments Supported

3.

S.No.	Name of Department	Courses (B.Sc./M.Sc./PG Diploma, certificate etc) offered	Regular Fac	ulty members
			Te	otal =54
			With Ph.D.	Without
				Ph.D.
1	Biomedical Science	B.Sc.	05	00
2	Botany	B.Sc.	07	00
3	Chemistry	B.Sc. and M.Sc.	13	00
4	Computer Science	B.Sc.	06	00
5	Electronics	B.Sc.	04	01
6	Physics	B.Sc.	10	01
7	Zoology	B.Sc.	06	01

## 5. Number & Date of Advisory committee meeting: Requested but could not held

## 6. **Qualitative improvements due to DBT support**.

- a) Under this scheme, more UG students got opportunity to get involved in interdisciplinary projects (Annexure I). Students were able to present their data in National and International conferences and have won prizes also (Annexure II). This has helped students in gaining confidence and commitment towards science.
- b) The inclination and commitment of UG students to research resulted in training of students not only in college but several students did their summer training in reputed research institutes under renowned scientists (Annexure III)
- c) UG Students could publish their research findings in peer reviewed journals (Annexure IV)
- d) Active learning is encouraged through the interactions between students and the concept of peer-to-peer learning (P2P) has been accentuated. Workshops on some of the emerging and interesting topics had been organised in which a team of competent students of the department provided hands-on training to students from other departments and institutions/college.
- e) Last but not the least, students were able to enjoy science by doing hands on experiments. Several new experiments were introduced because the grant helped us to buy new equipment. Also, those experiments which were demonstrated earlier were now performed hands on. (Annexure VI)

## 7. Any novel aspect introduced or planning to introduce during the Scheme duration. *Introduced*

- a. Acharya Narendra Dev College under the aegis of DBT Star College Scheme organized a One-day Interdisciplinary Exhibit Presentation on *'New Frontiers in Science'* in the College premises on October 22, 2019.
- b. Some of the workshops which were conducted by the students of the department to provide hands-on training to students of other departments/colleges.

### Planning

- a. To hold National level poster exhibition of all star colleges.
- b. College is helping faculty to be trained in novel pedagogical tools in teaching methods.

- 8. Lessons learnt / difficulties faced/suggestions if any, in implementation of the programme and utilization of DBT grant.
  - a. Introduction of interdisciplinary projects helped students to work in team and to take informed decision.
  - b. It is very essential to catch them young, therefore involving school students in workshops/projects would help to generate their interest towards science.
  - c. Initially there were problems with PMFS but with the co-operation of DBT Staff members, everything was sorted smoothly. Would like to request DBT for maintenance grant for the instruments and contingency grant.

S. No	Indicator	Pre-support (2014-2	2017)	During /After Suppor (2017-2020)	rt	Remarks
1	No. of students	Total =1975		Total =1982		
	admitted	M= 1316 F=659		M=1333 F=649		
	S     S     O     G     S     S     C       C     T     B     C     T     I       C     697     3     1       6     4     4     7     3       4     0     8     6	D G B C I 412 3 5	S     S     O     G     S     S     O     O       C     T     B     C     T     B       C     646     2     C     4       7     3     0     2     2       9     0     2     0     2	3		
2	Admission Cut Off %	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	89.66 73.3 85 93 93 86 79.66	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	94 86.6 91 91.5 87 93.6 87.3	<b>c. et droverage</b>
3	No. of students passing out	100%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100%	0,10	
4	Drop-out rates (%)	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	35 46 25 21 22 28 19	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	19 00 04 33 14 09 24	
5	No. of students opting for MSc/year	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	09 07 21 08 09 07 08	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	19 18 27 16 17 18 21	NUMER OF STREETS OFFICE SEA MAILTE NET MAA Alwane and always and a

## 9. Key performance indicators

#### Acharya Narendra Dev College Completion Report

6	Average marks (CGPA)	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	7-8 7-8 7-8 8-9 8-9 8-9 7-8	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	8-9 7-8 8-9 8-9 7-8 8-9 8-9	HOUSE BLACK EXCEL HANGENERAL STATE HANGENERAL
7	No. of hands- on workshops/exp eriments being conducted	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	60 23 26 18 68 113 15	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	69 36 41 21 94 130 28	Annexure V
8	No. of new experiments introduced	Zero		Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	09 13 15 03 26 17 13	Annexure VI
9	Publications (scopus indexed) /patents, if any.	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	05 04 04 04 02 12 25	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	22 05 18 12 09 15 30	Annexure VII 
10	Training received by faculty	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	08 03 03 00 00 04 06	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	13 10 13 07 07 03 12	Annexure VIII First House by Furst General Constraints of the second s
11	Exhibitions/se minars/training courses conducted	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	04 04 03 04 03 02 07	Biomedical Science: Botany: Chemistry: Computer Science: Electronics: Physics: Zoology:	13 08 05 07 09 11 18	Annexure VI, IX
12	Books/journals subscribed from grants			Books were not purch as enough grant is ava with the College for purchase of library bo	nased ailable the poks	

13	Outreach activities (Popular lectures /Summit attended)/visits	Biomedical Science:07Botany:06Chemistry:02Computer Science:02Electronics:05Physics:02Zoology:08	Biomedical Science:09Botany:14Chemistry:02Computer Science:05Electronics:07Physics:12Zoology:19	Annexure X
14	Colleges mentored to apply for DBT Star College grants	NA	NA	NA
15	Invited lectures	Biomedical Science: 02 Botany:02 Chemistry:02 Computer Science:02 Electronics:02 Physics:02 Zoology:02	Biomedical Science:16Botany:11Chemistry:13Computer Science:10Electronics:06Physics:16Zoology:19	Annexure XI

# 10. Details of colleges / schools mentored during the Star Scheme Tenure (Name of college / school; class / standard; No. of students benefited; whether any mentored college applied under Star College Scheme, if yes what was the outcome.

- Learning Science: The 'Do It Yourself' way" (July 17-19, 2019): A Three day workshop entitled "Learning Science: The 'Do It Yourself' way" was organized for school students jointly by the Department of Botany and Zoology under the aegis of DBT-Star Scheme for College, in collaboration with National Bal Bhavan, Delhi from July 17-19, 2019. 38 students of classes IX-XI from different schools of Delhi and National Bal Bhavan participated in the workshop meant to inculcate their interest and curiosity in biological sciences.
- 2) One day interdisciplinary workshop "New Frontiers in Science (October 22, 2019): During the outreach program, students from various schools were also invited for this exhibit cum workshop. Around 110 from three different schools attended the event. Enthusiasm and curiosity amongst the school students towards latest research trends in science and technology was quite evident. Interaction and sharing of ideas between school students and the participants/presenters made the event even more successful.
- 3) Dr Rashmi Sharma conducted "One Day workshop on Foldscope" for the students (30 in number) of Bal bhawan on September 11, 2019.
- 4) Conducted two outreach programs (BASIC IV & BIOSCOPE I) at two rural schools (Government Senior Secondary School, Bani and Government Senior Secondary School, Biar) in Hamirpur district of Himachal Pradesh under Student DBT Star College Program in collaboration with DDU and Ramjas College. There were at least 10 activities for the students prepared by different groups. Our college students, Sunidhi Aneja and Madhav demonstrated "Life in a drop of water through foldcope."The idea was to take student's interest towards a portable microscope i.e. a foldscope, which is cheap, accessible and easy to use so that students feel it easier to satisfy their curosity when they see something microscopic around them. Videos were recorded and students felt very happy with the foldscope workshop.

- 5) One Day Hands on workshop on Molecular Biology Techniques was organized by Department of Zoology on November 22, 2019 organized for the for the undergraduate and Post Graduate students of G.D.Goenka University.
- 6) Hands on workshop cum visit was arranged for zoology students of Kirori Mal College (KMC) and Swami Shradha Nand College (SSN) for showing ciliate cell culture facility @ANDC to familiarize them with the ciliate cell culture techniques.. 17 students of KMC and 10 students of SSC visited ciliate biology laboratory on February 19, 2020 and February 27, 2020, respectively.

# 11. Details of increase in the faculty generated resources viz extramural research grants from other funding agencies to strengthen the Star College Scheme efforts.

Extramural Research Grant (2017-2020)

S. No	Principal and Co-Investigators	Title of the Project	Sanctioned amount Rs.(in lakhs)	Funding Agency
1	Dr Arijit Chowdhury, Dr.Savithri Singh and Prof. Charu K. Gupta (2015-2018)	Exposure-Response Assessment of Ambient Air Pollution (AAP) and Hg contamination in Affected Cities of India and Slovenia: A Comparative Study	15.0	DST (Indo Slovenia joint project)
2	Prof. Sarita Kumar (2018-2021)	Developing and documenting innovative practices for learning physics and biology through experimentation for children and young adults	12.60	DST Women Scientist Scheme-B Project
3	Prof. Urmi Bajpai (2018-2021)	Recombinant endolysins from mycobacteriophages: Exploring their anti-Mycobacterial potential	46.702	DST-SERB
4	Prof. Urmi Bajpai (2019-2022)	An Investigational Study on Mycobacteriophages and their Enzymes as New Drug (IND) for Treating Tuberculosis'	22.160	ICMR
5	Prof. Sarita Kumar (2020-2023)	'Attractive Toxic Sugar Bait (ATSB) methods to control mosquitoes in different regions of Delhi and NCR'	MERA INDIA Project (ICMR)	36.0
6	Prof. Ravi Toteja Prof. Seema Makhija (2020-2023)	DNA barcoding for ciliate species identification of Delhi, India	DST- SERB	41.9

## 12. SOPs developed, lab manuals created and uploaded on website or submitted to DBT.

SOPs developed, lab manuals created and uploaded on website: <u>https://www.andcollege.du.ac.in/dbt/manual</u>

## 13. <u>Self evaluation</u>

Department	*Objective (as stated in proposal)	% achieved	Reasons for underachievement / If achieved, state in quantitative metrics
<b>Biomedical</b> Science	<ol> <li>To expose undergraduate students to cutting edge technologies existing worldwide in frontier areas of science and more so which are important from the Indian perspective.</li> <li>Impart hands-on practical training and exposure to latest tools for promotion of inter-disciplinary studies.</li> </ol>	100%	2
	<ol> <li>Up-grading existing undergraduate teaching and training framework to include state-of-the-art technical research projects and summer training workshops</li> </ol>	100%	2
	<ol> <li>Promote networking and strengthening of ties amongst research laboratories, institutions and industry for resource sharing and increasing efficiency</li> <li>Enhance capabilities of core instrumentation</li> </ol>	100%	2
	upgrading of existing facilities	100%	2
		100%	2
Botany	<ol> <li>To expose undergraduate students to cutting edge technologies existing worldwide in frontier areas of science and more so which are important from the Indian perspective.</li> <li>Impart hands-on practical training and exposure to latest tools for promotion of inter-disciplinary studies.</li> </ol>	100%	2
	<ol> <li>Up-grading existing undergraduate teaching and training framework to include state-of-the-art technical research projects and summer training workshops</li> </ol>	100%	2
	4. Promote networking and strengthening of ties amongst research laboratories, institutions and industry for resource sharing and increasing efficiency	100%	2
	5. Enhance capabilities of core instrumentation		

	comptendir Report		
	resources by procuring latest equipment and upgrading of existing facilities.	100%	2
		100%	2
Chemistry	<ol> <li>To expose undergraduate students to cutting edge technologies existing worldwide in frontier areas of science and more so which are important from the Indian perspective.</li> <li>Impart hands-on practical training and exposure to latest tools for promotion of inter- disciplinary studies</li> </ol>	100%	2
	<ol> <li>Up-grading existing undergraduate teaching and training framework to include state-of-the- art technical research projects and summer training workshops</li> </ol>	100%	2
	<ol> <li>Promote networking and strengthening of ties amongst research laboratories, institutions and industry for resource sharing and increasing efficiency</li> <li>Ignite a flavor of research in the minds of young undergraduate students so that get inspired to take up research as a viable career</li> </ol>	100%	2
	option.	100%	2
		10070	2
Computer Science	<ol> <li>To expose undergraduate students to cutting edge technologies existing worldwide in frontier areas of science and more so which are important from the Indian perspective.</li> <li>Impart hands-on practical training and exposure to latest tools for promotion of inter- disciplinary studies.</li> </ol>	100%	2
	3. Up-grading existing undergraduate teaching and training framework to include state-of-the- art technical research projects and summer training workshops	100%	2
	<ul> <li>4. Train faculty and support staff in the arena of latest scientific research culture and methodology</li> <li>5. Description of the science of the scienc</li></ul>	100%	2
	5. Promote networking and strengthening of ties		

	amongst research laboratories, institutions and industry for resource sharing and increasing efficiency	100%	2
Electronics	<ol> <li>To expose undergraduate students to cutting edge technologies existing worldwide in frontier areas of science and more so which are important from the Indian perspective.</li> <li>Impart hands-on practical training and exposure to latest tools for promotion of inter- disainlingary studies</li> </ol>	100%	2
	<ol> <li>Up-grading existing undergraduate teaching and training framework to include state-of-the- art technical research projects and summer training workshops</li> </ol>	100%	2
	<ol> <li>Train faculty and support staff in the arena of latest scientific research culture and methodology</li> <li>Promote networking and strengthening of ties amongst research laboratories, institutions and industry for resource sharing and increasing</li> </ol>	100%	2
	efficiency	80%	1.6 2
Physics	<ol> <li>To expose undergraduate students to cutting edge technologies existing worldwide in frontier areas of science and more so which are important from the Indian perspective.</li> <li>Impart hands-on practical training and exposure to latest tools for promotion of inter- disciplinary studies.</li> <li>Up-grading existing undergraduate togehing</li> </ol>	100%	2
	and training framework to include state-of-the- art technical research projects and summer training workshops	100%	2
	<ul> <li>4. Train faculty and support staff in the arena of latest scientific research culture and methodology</li> <li>5. Promote networking and strengthening of ties amongst research laboratories, institutions and industry for resource sharing and increasing efficiency</li> </ul>	100%	2
		100%	2

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		100%	2
Zoology	<ol> <li>To expose undergraduate students to cutting edge technologies existing worldwide in frontier areas of science and more so which are important from the Indian perspective.</li> <li>Impart hands-on practical training and exposure to latest tools for promotion of inter-disciplinary studies.</li> </ol>	100%	2
	<ol> <li>Up-grading existing undergraduate teaching and training framework to include state-of-the-art technical research projects and summer training workshops</li> </ol>	100%	2
	<ol> <li>Enhance capabilities of core instrumentation resources by procuring latest equipment and upgrading of existing facilities.</li> <li>Ignite a flavor of research in the minds of young undergraduate students so that get inspired to</li> </ol>	100%	2
	take up research as a viable career option.	100%	2
		100%	2

Course Coordinator (With Seal) Head of the Institution (With Seal)

## Annexure I

## List of Projects undertaken under DBT STAR scheme

## **Biomedical Science: 22**

S. No.	Title of Project	Mentor	Students	
			Name	<b>Course and Year</b>
1.	Antibacterial Activity of Different Solvent Extracts obtained from Leaves of Aegle	Dr. Archna Pandey Dr. Satendra Singh Dr. Sunita Hooda	Shreya Verma Sunaina	B.Sc. (H) Biomedical Science, II Year B.Sc. (H) Chemistry,
2.	Bactericidal Activity of Seeds Extracts of <i>Aegle</i> <i>marmelos</i> (L.) Corr. using Minimum Inhibitory Concentration and Disc Diffusion Assay	Dr. Archna Pandey Dr. Satendra Singh Dr. Sunita Hooda	Varshini Gunjan	B.Sc. (H) Biomedical Science, II Year B.Sc. (H) Chemistry, I Year
3.	In vitro Antibacterial Activity of Bark Extract of <i>Aegle marmelos</i> (L.) Corr. against Gram Positive and Gram Negative Bacterial Strains	Dr. Archna Pandey Dr. Satendra Singh Dr. Sunita Hooda	Yash Shukla Himani	B.Sc. (H) Biomedical Science, II Year B.Sc. (H) Chemistry, I Year
4.	Antibacterial Properties of <i>Aegle marmelos</i> (L.) Corr. Fruit Pulp Extracts Prepared in different Organic Solvents	Dr. Archna Pandey Dr. Satendra Singh Dr. Sunita Hooda	Deepak Pokhreal Shivam Kumar	B.Sc. (H) Biomedical Science, II Year B.Sc. (H) Chemistry, I Year
5.	IsolationofMycobacteriophages,Data Mining & GenomeAnnotationandInstrumentation	Dr. Urmi Bajpai	Sonia, Shweta, Prashasti and Suraj	B.Sc. (H) Biomedical Science, III Year
6.	Study of Bacteriophage through Bioinformatics and Advanced Instrumentation	Dr. Urmi Bajpai	Prakhar Sonik	B.Sc. (H) Biomedical Science, III Year
7.	PatternofPupaeColourationandPigmentationindeveloping Fruit Fly	Dr. Sunita Jetly	Komal and Riddhi Bhardwaj Yukti Khanna	<ul><li>B.Sc. (H) Biomedical</li><li>Science, I Year</li><li>B. Sc. Life Sciences,</li><li>I Year</li></ul>
8.	Knowledge, Attitude and Practice (KAP) study on	Dr. Sunita Jetly	Sibaram Sadangi and	B.Sc. (H) Biomedical Science, II Year

		comptenion Rept		
	the awareness of Vitamin D deficiency in the Indian Population (with a special emphasis on people in the Age Group of 18-22): A Pilot Study		Harmanpreet Kaur	
9.	Computational Analysis of Immunogenic Factors Responsible for the Growth of Tumor	Dr. Gagan Dhawan	Purnendu Kumar	B.Sc. (H) Biomedical Science, III Year
10.	Green Synthesis, Characterization and Biological Evaluation of Metallic Nanoparticles	Dr. Gagan Dhawan Dr. Satendra Singh	Gaurav Agrawal and Priyanka Chauhan	B.Sc. (H) Biomedical Science, III Year
11.	Nanoparticle Synthesis and their Physicochemical Characterization	Dr. Seema Gupta Dr. Gagan Dhawan	Piyush Rana, Akash Bharti, Akarsh Pandey, Tanish Dhir and Sameer Gupta	B.Sc. (H) Chemistry, II Year
12.	Functional Analysis and Characterization of Specific Mycobacteriophage Genes	Dr. Urmi Bajpai Dr. Abhishek K. Mehta Dr. Namita Singh	Amit Babu, Ashwin, Lucky, Muskan Jindal, Prachi, Preeti, Purva, Rohini, Samridhi, Didwania and Sansi Sonanjali	B.Sc. (H) Biomedical Science, I Year B.Sc. (H) Biomedical Science, II Year
13.	Column Chromatography Assisted Fractionation of Active Constituents of <i>Aegle marmelos</i> Leaves and their Antibacterial Activity	Dr. Archna Pandey Dr. Satendra Singh	Varshini Padmanabhan, Shreya Verma, Riddhi Bhardwaj and Urooj Fatima	B.Sc.(H) Biomedical Science, II Year
14.	Understanding the Phages: The biology and the Relationship with their Host	Dr. Urmi Bajpai	Garima Kalakoti	B.Sc. Life Science, II year
15.	Expression, Purification and Activity of Mycobacteriophage- Derived AAA ATPase	Dr. Urmi Bajpai	Ritam Das	B.Sc. Life Science, II year

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16.	To Ascertain the Most Efficient Working Hours of the Faculty in Acharya Narendra Dev College (ANDC) within the Framework of 9 am to 4 pm	Dr. Sunita Jetly Dr. Archna Pandey	Aatiruddin Khan, Alisha Ansari and Muskan Gupta	B.Sc. (H) Biomedical Sciences, II year		
17.	Computational analysis of Natural Antagonists for Design of Antithyroid Drugs	Dr. Gagan Dhawan	Ashwin Uday	B.Sc. (H) Biomedical Sciences, III year		
18.	Computational Analysis of An Inhibitor of Pyrimidine Synthesis Enzyme for Anti- Malarial Drug Therapy	Dr. Gagan Dhawan	Arundhati Chaudhary	B.Sc. (H) Biomedical Sciences, III year		
19.	Green Synthesis, Characterization and Biological Evaluation of Metallic Nanoparticles MnO <sub>2</sub> , FeO, MoO <sub>3</sub> , ZnO, CuO, NiO	Dr. Gagan Dhawan Dr. Satendra Singh	Rohini, K. Gautam, Muskan Jindal, Amit Sharma and Rhythem Kaushal Nahid, Dipesh Talukdar, Mamta Chhetri, Aastha, Shreya Roy and Divya	B.Sc (H) Biomedical Sciences, III year B.Sc. (H) Biomedical Sciences, II year		
20.	Use of Quadruplex Binding Ligands against Prion Diseases	Dr. Archna Pandey Dr. Prashant Pradhan	Purva, Abhijit Nayak and Ashwin Udey	B.Sc. (H) Biomedical Sciences, III year		
21.	Functional Analysis & Characterization of Mycobacterial Genes	Dr. Namita Singh	Prachi Khattar, Kanika Bhatia and Rohini Bhatt	B.Sc. (H) Biomedical Science, III year		
22.	Surface Plasmon Resonance – A Tool to Detect Change in Refractive Index.	Dr. Charu K. Gupta Dr. Archna Pandey Dr. Arijit Chowdhury	Tamanna, Sudeepta Singh, Sansi and Sarang Saini	B.Sc. (H) Biomedical Science, II year		

## Botany: 05

S. No.	Project		Mentors	Students			
						Name	<b>Course and Year</b>
1.	Survey	of	Plants	for	Dr. Rashmi Sharma	Vikramjeet	B.Sc. (H) Botany,
	Presence	of Tr	ypsin		Dr. Manisha Jain	Singh, Amit	II Year

		Comptemon Repu	1.1	
	Modulators		Kumar, Diksha Tiwari, Chetna and Alok Yadav	
2.	Isolation, Identification and Characterization of Fungal Isolates for their Lignocellulolytic Potential	Dr. Anupama Shukla Dr. Manoj K Singh	Manohar Bisht and Shubhangini Bhaskar Jyoti, Yash Gupta and Vivek Das	B.Sc. (H) Botany, III Year B.Sc. (H) Botany, II Year
3.	An Estimation of Ambient Air Pollution by Measuring Content of Chlorophyll	Dr. Charu Khosla Gupta Dr. Arijit Chowdhuri	Nitish Kalson and Heena Nizam	B.Sc. Life Sciences, II Year
4.	Using Surface Plasmon Resonance (SPR) Technique (Optical) for Estimation of Chlorophyll	Dr. Arijit Chowdhuri Dr. Charu Khosla Gupta Dr. Yash Mangla	Akash Gupta and Anshuman Tripathi	B.Sc. (H) Physics, III year
5.	Water Pollution–Estimation of Contamination in Local Environment	Dr. Charu Khosla Gupta Dr. Arijit Chowdhuri	Payal Singh and Ankita Negi	B.Sc. Life Sciences, II Year

## Chemistry: 30

S. No.	<b>Title of Project</b>	Mentor	Students	
			Name	<b>Course and Year</b>
1.	<b>Biological Nutrient</b>	Dr. Vandana Uberoi	Sibaram	B.Sc. (H)
	Removal (BNR) of	Dr. Charu Khosla	Sadangi	Biomedical
	Waste Water Pollutants	Gupta	Vikas Shukla	Science, II Year
	using Micro Organisms	Dr. Ravi Toteja	Vrinda	B.Sc. Life Science,
			Akash	II Year
			Shubham	B.Sc. Life Science,
			Kumar Dubey	III Year
			Subhojit Mitra	B.Sc. (H) Botany,
			Saranya Nair	III Year
			Mahima Pundir	B.Sc. (H) Chemistry,
			Dipin Tomar	III Year
			Vaibhav	
			Srivastva	
			Rajan Mishra	
2.	Effect of Industrial	Dr. Vandana Uberoi	Antim Rani	B.Sc. (H) Chemistry,
	Chemicals in the Four	Dr Sunita Hooda	Anu Malik	II Year

		Completion Repo	11	
	Important Rivers and its Tributaries of India	Dr Sunita Narang	piyush Kumar Megha Tanwar Utkarsha Sharma Deepansh Deepanshu Divyanshu Praveen Kumar	B.Sc. (H) Computer Science, III Year
3.	Application of Magnetic Chitin Composites for the Removal of Toxic Metal and Organic Dyes from Industrial Effluents	Dr. Sunita Hooda Dr. Geetu Gambhir Dr. Sarita Kumar	Ravina Yadav, Heena Malik, Aniket Mariyam, and Monika Akarsh Pandey, Tanuja Sharma, Senjuti Sengupta, Partho Proteem Das and Akshit Chauhan	B.Sc. (H) Chemistry, II Year B.Sc. (H) Chemistry, II Year B.Sc. (H) Zoology, II Year
4.	Synthesis, Characterization of Various Metal Sulfide Nanoparticles with Different Precursors and Stabilizing Agents and their Applications	Dr. Seema Gupta Dr. Gagan Dhawan	Nitish Kumar Priya Saurabh Aggarwal Deepanshi Disha Mani Gupta Chinmay Gupta Priya Yadav Harsh Vardhan Swarnanil Shagun	B.Sc. (H) Biomedical Science, III Year B.Sc. (H) Biomedical Science, II Year B.Sc. (H) Chemistry, II Year B.Sc. (H) Chemistry, I Year B.Sc. Life Sciences, III Year
5.	Heavy Metal Adsorption and Microbial Study of Functionalized Chitin with EDTA	Dr. Sunita Hooda Dr. Geetu Gambhir Dr Sarita Kumar	Rajanshi, Mustabin, Abhijeet, Dharmender, Esha and Khushi Tanuja Sharma, Senjuti Sengupta, Partho Proteem Das, Akshit Chauhan and Akshat B. Dharmani	B.Sc. Life Sciences, II Year B.Sc. (H) Zoology (Pass Out)

	Acharya Narendra Dev College				
6	Yamuna River and its Tributaries: Pollution Caused by Industrial Effluents.	Dr Vandana Uberoi	Antim Rani	B. Sc. (H) Chemistry, II Year	
7	Ganga River and its Tributaries: Effect of Industrial Pollution.	Dr Vandana Uberoi	Anu Malik	B. Sc. (H) Chemistry, II Year	
8	Hindon River : Effect of Industrial Chemicals	Dr Vandana Uberoi	Piyush Kumar	B. Sc. (H) Chemistry, II Year	
9	Spectrophotometric Studies of Turmeric Extracts and Review of its Medicinal Properties.	Dr Pankaj Khanna, Dr Neeti Misra and Dr Leena Khanna	Rajkamal and Jatin	B. Sc. (H) Chemistry, I Year	
10	Synthesis of Some Heterocyclic Compounds and a Review on Benzimidazole Synthesis.	Dr Pankaj Khanna, Dr Shallu Sachdeva and Dr Leena Khanna	Jatin and Rajkamal	B. Sc. (H) Chemistry, I Year	
11	Adsorption of Heavy Metals on EDTA - Functionalized Chitin.	Dr Sunita Hooda and Dr Geetu Gambhir	Ravina	B. Sc. (H) Chemistry, III Year	
12	Adsorption of Organic Dyes on EDTA - Functionalized Chitin.	Dr Sunita Hooda and Dr Geetu Gambhir	Ravina and Aniket	B. Sc. (H) Chemistry, III Year	
13	Green Synthesis and Characterization of ZnS Nanoparticles.	Dr Seema Gupta	Priya Kumari	B. Sc. (H) Biomedical Science, II Year	
14	Synthesis of CdTe Quantum Dots and its Application in Metal Detection.	Dr Seema Gupta	Nitish Kumar	B. Sc. (H) Biomedical Science, III Year	
15	Synthetic Fabrication and Optimization of Gold Nanoparticle for the Development of Fluorescence Based Sensors	Dr Seema Gupta	Saurabh Yadav	B. Sc. (H) Biomedical Science, III Year	
16	Green and Low Cost Synthesis and Characterization of ZnS Nanoparticles	Dr Seema Gupta	Shagun Sharma	B. Sc. Life Sciences, III Year	
17	To Study the Effect of Zein nanoparticles on Candida albicans	Dr Seema Gupta	Mani Gupta	B. Sc. (H) Biomedical Science, I Year	

18	Study and extraction of medicinally important plant S. chirata & examination of chemical adulteration in food items.	Dr. Pankaj Khanna, Dr. Kavita Mittal and Dr. Neeti Misra	Ankit Rai, Gunjan & Shivam Kumar	B.Sc. (H) Chemistry, I Year
19	Green Synthesis, Characterization and Biological evaluation of metallic nanoparticles.	Dr. Gagan Dhawan and Dr. Seema Gupta	Gaurav Agrawal,	Priyanka Chauhan B.Sc. (H) Biomedical Science, III Year
20	Nanoparticle synthesis and their physicochemical characterization.	Dr. Seema Gupta and Dr. Gagan Dhawan	Piyush Rana Akash Bharti Akarsh Pandey Tnish Dhir Sameer Gupta	B.Sc. (H) Chemistry, II Year
21	Antibacterial activity of different solvent extracts obtained from leaves of <i>Aeglemarmelos (L.)</i> <i>Corr.</i>	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Hooda	Shreya Verma, Sunaina	B.Sc. (H) Biomedical Science, II Year B.Sc. (H) Chemistry, I Year
22	Bactericidal activity of seeds extracts of Aeglemarmelos (L.) Corr. using minimum inhibitory concentration and disc diffusion assay	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Hooda	Varshini Gunjan	B.Sc. (H) Biomedical Science, II Year B.Sc. (H) Chemistry, I Year
23	In vitro antibacterial activity of bark extract of Aeglemarmelos (L.) Corr. against gram positive and gram negative bacterial strains.	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Hooda	Yash Shukla Himani	B.Sc. (H) Biomedical Science, II Year B.Sc. (H) Chemistry, I Year
24	Antibacterial properties of Aeglemarmelos (L.) Corr. fruit pulp extracts prepared in different organic solvents.	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Hooda	Deepak Pokhreal, Shivam Kumar	B.Sc. (H) Biomedical Science, II Year B.Sc. (H) Chemistry, I Year
25	Modification of Grapheme Oxide using Polysaccharide for Water Purification	Dr. Sunita Hooda and Dr. Geetu Gambhir (Chemistry)	Manisha Gupta	B.Sc. Life Sciences- III Year
26	Effect of Sonication on Graphene Oxide (GO)	Dr. Sunita Hooda and Dr. Geetu Gambhir	Sneha Mahar	B.Sc. Life Sciences- III Year

	Acharya Narendra Dev College Completion Report			
		(Chemistry)		
27	ImprovedHummer'sMethodformulatesGrapheneOxideCorollary of Temperatureon Grapheme Oxide.	Dr. Sunita Hooda and Dr. Geetu Gambhir (Chemistry)	Narain Swami	B.Sc. Life Sciences- II Year
28	Effect of Sonication on Graphite.	Dr. Sunita Hooda and Dr. Geetu Gambhir (Chemistry)	Maghna Singh	B.Sc. Life Sciences- II Year
29	To Extract the Colored Component of <i>Hibiscus</i> <i>rosa-sinensis</i> Flower and Study its Potency as a Ph Indicator	Dr. Pankaj Khanna, Dr. Neeti Misra and Dr. Kavita Mittal (Chemistry)	Kirti Chugh Ramandeep Ishika Sagwal	B.Sc. (H) Chemistry-III Year B.Sc (H) Chemistry- I Year B.Sc Physical Sciences-I Year
30	<ul><li>A. Detection of Adulterants in Milk from different sources</li><li>B. Synthesis of Metal Complexes of Schiff Bases using Sonication</li></ul>	Dr. Neeti Misra, Dr. Pankaj Khanna and Dr. Kavita Mittal (Chemistry) Dr. Leena Khanna (USBAS, GGSIP University, Dwarka)	Harshita Madaan and Saatwik Suman	B.Sc. (H) Chemistry-II Year

## **Computer Science: 13**

S. No.	Title of Project	Mentor	Students		
			Name	Course and Year	
1.	Smpycode: An Android Based Tutorial on Java and C++	Dr. Sharanjit Kaur	Sumit Yadav and Milan Khurana	B.Sc. Physical Science with Computer Science, II Year	
2.	Online Student Assistant	Dr. Sharanjit Kaur	Jyoti Kumar and Mamta Kumari	B.Sc. Physical Science with Computer Science, II Year	
3.	Social Campus for Social Media Platform for Students and Colleges	Dr. ChandraKant Samal	Ayush Kumar Varshney, Dhananjay Kumar and Ruman Saleem	B.Sc. (H) Computer Science, II Year	
4.	The Learning Hub	Dr. ChandraKant Samal	Varad Srivastav, and Vikash	B.Sc. (H) Computer Science, II Year	

	Acharya Narendra Dev College				
5.	Functional Group Analysis with Depth of Chemistry	Dr. Sharanjit Kaur Dr. Vibha Gaur Ms. Shiva Saini Dr. Neeti Mishra Dr. Pankaj Khanna	Kashi Sachin Kartik Rahul Harshit Srivastava Mahima Pundeer	<ul> <li>B.Sc. (H) Computer Science, II Year</li> <li>B.Sc. (H) Computer Science, II Year</li> <li>B.Sc. (H) Computer Science, I Year</li> <li>B.Sc. (H) Computer Science, I Year</li> <li>B.Sc. (H) Chemistry, III Year</li> <li>B.Sc. (H) Chemistry, III Year</li> </ul>	
6.	Secure Router Based Centralized Controlled Network in the College	Dr. Chandrakant Samal Mr. Keshav Pratap Singh Ms. Nishu Singh Mr. Tarun Sharma Mr. Sanjay Sangwan	Deepansh, Nimish, Divyanshi, Sunil, Deepanshu, Vivek, Ashish, Shubham Gupta, Shubham Pal Pratek and Himanshu	B.Sc. (H) Computer Science, II Year	
7.	ANDC Career Counseling and Placement Cell	Dr. Sharanjit Kaur Dr. Harita Ahuja	Supriya Katyal and Mudita Sanjive	B.Sc. (H) Computer Science, II Year	
8.	Online Ranking Of Educational Web-Sites	Dr. Sharanjit Kaur	Prakhar Agrawal and Shubhang Upadhyay	B.Sc. Physical Science with Computer Science, II Year	
9.	Automatic Assignment Evaluations	Dr. Sharanjit Kaur	Kartik Mishra, Rahul Solanki	B.Sc. Physical Science with Computer Science, I Year	
10.	Attendance Application : An Android App Development	Dr. Harita Ahuja Dr. Preeti Marwaha Ms. Gunjan Rani	ShivaniSaxena and Priyanka Rishabh Jain	B.Sc.(H) P.M.C.S., II Year B.Sc.(H) P.M.C.S., III Year	
11.	Creation of Online Repository of Ciliates of Delhi Region, India	Dr. Harita Ahuja Dr. Preeti Marwaha Dr. Seema Makhija	Rishabh Jain,	B.Sc.(H) P.M.C.S., III Year	

#### Acharya Narendra Dev College Completion Report

	Comptende Report				
			Vishal Naeem	B.Sc. Life Science, II Year B.Sc. (H) Zoology, II Year	
12.	Tool for On-line Choice- Based Question Answer System for Student Evaluations	Dr. Chandra Kanta Samal Ms. Shiva Saini Ms. Gunjan	Purushottam, Aman Raj, Vikas Pandey, Naved Ali, Utkarsh Saxena and Himanshu	B.Sc. (H) Computer Science	
13.	Software for Editing Multiple Image Documents	Ms. Vandita Grover	Prince Sharma Ankit Negi	B.Sc. (H) Electronics, II Year	

## **Electronics: 35**

S.	Title of Project	Mentor	Students		
No.			Names	<b>Course and Year</b>	
1.	Using the Arduino for the Experimental	Dr. Amit Garg	Avinash Kumar Lal	B.Sc. (H) Electronics, III Year	
	Determination of a				
	Friction Coefficient by		Tripti	B.Sc. (H) Physics,	
	Movement on an Inclined Plane.		Varshney	II Year	
2.	Laser Based Footfall	Dr. Amit Garg	Prahlad	B.Sc. (H) Electronics,	
	Counter		Prajapat	III Year	
			Ŧ	B.Sc. Physical	
			Jaya	Science with	
2			$\mathbf{D} = 1 \mathbf{V} 1$	Computer Science	
3.	L1-F1- Sound	Dr. Amit Garg	Devesh Yadav	B.Sc. (H) Electronics,	
	lights			n rear	
4.	Smart Mirror	Dr. Amit Garg	Prince Sharma	B.Sc. (H) Electronics,	
			and Aqil Ali	III Year	
5.	Smartphone To Digital	Dr. Amit Garg	Bisakha Das	B.Sc. (H) Biomedical	
	Microscope			Science, I Year	
6.	Voice Controlling Car	Dr. Amit Garg	Abhishek	B.Sc. (H) Electronics,	
				II Year	
7.	Smart Dustbin (Sensobin)	Dr. Ravneet Kaur	Rahul Chawla,	B.Sc. (H) Electronics,	
		Dr. Monika	Aditya Raj	III Year	

		Bhattacharya	Singh and	
0			Amit Rana	
ð.	Solar Piezoelectric	Dr. Kavneet Kaur	Abhishek Dha lawa an l	B.Sc. (H) Electronics,
	Charger	Dr. Monika	Bhadana and	III Year
		Bhattacharya	Avinasn Kumar I al	
0	Costure Recognizing	Dr. Downoot Vour	Ruillai Lai	D So. (II) Electronico
9.	Smart System	Ma Gouri Ghoi	Puslikal	D.Sc. (П) Electionics, II Voor
	Smart System	Wis. Oduli Oliai	Ashutosh	11 I Cal
			Mani Trinathi	
			and Phulender	
10.	Automatic Titrator	Dr. Ravneet Kaur	Aman Tvagi.	B.Sc. (H) Electronics.
		Dr. Monika	Yash Varshney	II Year
		Bhattacharya	and Abhishek	
			Udiya.	
11.	Wifi-Controlled Robot	Dr. Ravneet Kaur	Abhishek Puri,	B.Sc. (H) Electronics,
		Ms. Gauri Ghai	Mohit Supyal	II Year
			and Suraj	
			Singh	
12	Assistive Gadgets for	Dr. Rayneet Kaur	Abhishek	B Sc. (H) Electronics
14.	Visually Impaired	Ms. Gauri Ghai	Raiwani and	D.Se. (11) Electionics
	Students		Adarsh	
	a) Light to Sound		Maurya	
	Convertor/ Optocoupler;		_	
	b) Color Detector			
13.	Plant Electro Stimulation	Dr. Ravneet Kaur	Devender	B.Sc. (H) Electronics
	and Data Acquisition	Dr. Udaibir Singh	Soni,	
		Dr. Anita Narang	Gagan, Rachit	
		Ms. Gauri Ghai	Agrawal, Rohit	
			Saini and	
			Summe v asmista	D So (U) Dotony
			Pooia Nishika	D.Sc. (11) Dotaily
			Shivangi	
			Charvee and	
			Anjali	
14.	Mine Detection Drone	Dr. Ravneet Kaur	Chiradeep Das	B.Sc.(H) Electronics
		Ms. Gauri Ghai	and	
			Ritesh Raj	
15.	Development of	Dr. Amit Garg	10 students	B.Sc. (H) Electronics
	Nanostructured Thin			and B.Sc.(H) Physics
4.5	Films			
16.	Paradigm Shift in	Dr. Amit Garg	5 students	B.Sc. (H) Electronics
	Material Science-2D			
	Naterials: Familiarity,			
	Synthesis and Application			
17.	Electro Simulation in	Dr. Rayneet Kaur	Lalit Upreti	B.Sc. (H) Electronics
	plants	Ms. Gauri Ghai	Praval Bisht	III Year
	-		and Kunal	

			Sharma	
18.	Piezoelectric Energy Generator	Ms. Gauri Ghai Dr. Monika Bhattacharya	Abhishek Bhadana and Avinash Kumar Lal	B.Sc(H) Electronics, III Year
19.	Real Time Passenger Counter	Dr. Monika Bhattacharya Mr. Dinesh Kumar	Yash Varshney and Abhishek	B.Sc. (H) Electronics, II Year
20.	Solar Tracker	Dr. Udaibir Singh Mr. Dinesh Kumar	Prahlad Prajapat and Ankita Shukla	B.Sc. (H) Electronics, II Year
21.	RFID Enabled Attendance System	Dr. Anju Agrawal Mr. Dinesh Kumar	Aditya Kumar and Gagan	B.Sc. (H) Electronics, III Year
22.	Magnetic Collision Anti- Collision System	Dr. Ravneet Kaur Ms. Gauri Ghai	Lalit Shukla	B.Sc. (H) Electronics, II Year
			Reya Negi	B.Sc. (H) Physics, II Year
23.	Gesture Controlled Robot	Dr. Anju Agrawal Dr. Monika Bhattacharya	Pushkar Baranwal and Phulender	B.Sc. (H) Electronics, II Year
24.	Data Transfer through CPU Fans	Dr. Ravneet Kaur Ms. Gauri Ghai	Anurag Saxena	B.Sc. (H) Electronics, II Year
25.	Blind Assistance Toolkit (B.A.T)	Dr. Ravneet Kaur Dr. Monika Bhattacharya Ms. Gauri Ghai	Rajat Mann and Lokender	B.Sc. (H) Electronics, III Year
26.	Door Access Control Based on Face Recognition	Dr. Ravneet Kaur, Dr. Monika Bhattacharya Ms. Gauri Ghai	Pranjal Singh and Rohit Saini	B.Sc (H) Electronics, III Year
27.	Laser Security & Music System	Dr. Ravneet Kaur	Akshansh Jha	B.Sc. (H) Electronics, III Year
28.	Android Application Based Repository (PUSTAK)	Dr. Ravneet Kaur Dr. Monika Bhattacharya	Ashutosh Singh and Vikram Bhardwaj	B.Sc. (H) Electronics, III Year
29.	Mobile Jammer & Mobile Detector	Dr. Anju Agrawal, Ms. Gauri Ghai	Abhishek Bhadana, Anmol Dogra, Avinash Kumar Lal and Shashank Nagar	B.Sc. (H) Electronics, II Year
30.	Aditya Raj Singh	Dr. Ravneet Kaur, Ms. Gauri Ghai		B.Sc. (H) Electronics, II Year
31.	Digital Thermometer	Dr. Ravneet Kaur	Chiradeep Das and Ritesh Raj	
32.	Lab Maintenance Application	Dr Ravneet Kaur Ms Gauri Ghai	Adarsh Maurya	B.Sc. (H) Electronics B. Sc. (H) Computer

			Ashish Maurya	Science
33.	Communication Tool Kit	Dr. Ravneet Kaur	Rachit	B. Sc. (H) Electronics
	by Labview	Dr. Anita Kumari	Agrawal	
			Deepak	
			Sharma	
34.	Environment Monitoring	Dr. Anju Agrawal	Kiran, Amrita	B. Tech. Electronics
	System	Dr. Anita Kumari	Kumari, Aman	
			Sharma and	
			Abhijeet	
35.	Thermoelectric generator	Dr. Anju Agrawal	Rachit	B.Sc. (H) Electronics
	(TEG)	Dr. Anita Kumari	Agrawal,	
			Anand Kumar	
			Pandey,	
			Deepak	
			Sharma and	
			Maneesh	
			Kumar	

## Physics: 28

S. No.	. Project	Mentors	Students		
			Names	<b>Course and Year</b>	
1.	UsingSurfacePlasmonResonance(SPR)technique(optical)fortracelevelsensingapplications	Dr. Arijit Chowdhuri Dr. V. Bhasker Raj	Anshuman Tripathi and Yogesh Shukla	B.Sc. (H) Physics, III Year	
2.	UsingQuartzCrystalMicrobalance(QCM)techniquefortracelevelsensing applications	Dr. Arijit Chowdhuri Dr. V. Bhasker Raj	Siddharth Das	B.Sc. Physical Science with Electronics, III Year	
3.	UsingArduinomicrocontrollerforAmbientAirPollutionmeasurement applications	Dr. Arijit Chowdhuri Dr. V. Bhasker Raj	Tripti Varshney	B.Sc. (H) Physics, II Year	
4.	Designing a working PROSTHETIC LEG using advanced Arduino® applications	Dr. Arijit Chowdhuri	Adarsh Prasad	B.Sc. Physical Science (Electronics), III Year	
5.	Using optical technique of surface Plasmon resonance (SPR) for detection	Dr. Arijit Chowdhuri Dr. V. Bhasker Raj Dr. Charu K. Gupta	Chaitanya Raj, Yogesh Shukla and Anshuman Tripathi	B.Sc. (H) Physics, III Year	
6.	Environmental Monitoring	Dr. Arijit Chowdhuri Dr. Charu K. Gupta	Manohar Singh Bisht and Medha Jha	B.Sc. (H) Botany, III Year	

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		Сотретной керо	r i	
7.	Quartz Crystal Microbalance and Environmental Science	Dr. Arijit Chowdhuri Dr. V. Bhasker Rai	Akash Gupta	B.Sc. (H) Physics, III Year
			Siddharth Das	B.Sc. Physical Science (Electronics), III Year
8.	Effect of Heavy Metals	Dr. Ravi Toteja	Senjuti	B.Sc. (H) Zoology,
	and Ethidium Bromide on DNA.	Dr. Seema Makhija Dr. Arijit Chowdhuri	Sengupta	II Year
9.	Micro-controller for Environmental Applications	Dr. Arijit Chowdhuri Dr. V. Bhasker Raj	Sushil Kumar Singh	B.Sc. (H) Physics, III Year
10.	Market Research on	Dr. Arijit	Shubham and	B. Com. (H), III
	Commercial Gas Sensors and Electronic Nose in India and Abroad	Chowdhuri Dr. Sandeep Kumar Goel	Chirag Agarwal	Year
11	To blink an LED for a	Dr. Arijit	Jitender Pal	B.Sc. (H) Physics –
	particular time period	Chowdhuri	Singh	III year
12	To blink multiple LEDs	Dr. Arijit Chowdhuri	Priya Chopra	B.Sc. (H) Physics – III year
13	To obtain text on Serial Monitor for real time output	Dr. Arijit Chowdhuri	Siddharth Das	B.Sc. Physical Science (Electronics) – II year
14	To detect change in input signal state	Dr. Arijit Chowdhuri	Akash Gupta	B.Sc. (H) Physics – II year
15	To convert analog input voltage and obtain it on a serial monitor	Dr. V. Bhasker Raj	Adarsh Prasad	B.Sc. Physical Science (Electronics) – II year
16	To obtain analog input voltage and plot it using Serial Plotter	Dr. V. Bhasker Raj	Anshuman Tripathi	B.Sc. (H) Physics – II year
17	To display the ASCII Table for different bytes available till date	Dr. V. Bhasker Raj	Yogesh Shukla	B.Sc. (H) Physics – II year
18	To analyse a character entered by a user and give information about it	Dr. V. Bhasker Raj	Sunita Gupta	M.Sc. Electronics – I year, Jamia Milia Islamia
19	To use Arduino as a stopwatch	Dr. Arijit Chowdhuri	Nancy Gupta	M.Sc. Electronics – I year, Jamia Milia Islamia
20	To vary the intensity of	Dr. Arijit	Vaibhav	B.Sc. (H) Physics –
	the LED using Arduino	Chowdhuri	Gautam	II year
21	To produce the Knightrider effect through LED display	Dr. V. Bhasker Raj	Sangeeta	B.Sc. (H) Physics – II year

22	To use Arduino as a function generator	Dr. Arijit Chowdhuri	Sushil Singh	B.Sc. (H) Physics – II year
23	To use Arduino for controlling two way traffic lights	Dr. V. Bhasker Raj	Chinkey	B.Sc. (H) Physics – II year, Miranda House
24	Tomeasurethecapacitanceofacharging/dischargingcapacitor	Dr. Arijit Chowdhuri	Himani	B.Sc. (H) Physics – II year, Miranda House
25	To use Arduino as a Voltmeter (0-30 V)	Dr. V. Bhasker Raj	Keshvi Tuteja	B.Sc. (H) Physics – II year, Miranda House
26	To use Arduino as an Ammeter (0-3 mA)	Dr. V. Bhasker Raj	Bhawna	B.Sc. (H) Physics – II year, Miranda House
27	To use Arduino for data acquisition	Dr. V. Bhasker Raj	Mangesh Sharma	M.Sc. Electronics – I year, University of Delhi South Campus
28	To change decimal input to binary	Dr. V. Bhasker Raj	Swati Bhatt	B.Sc. Physical Science (Electronics) – I year

## Zoology: 25

S.No.	Title	Mentors	Students	
			Name	Course and
				Year
1.	Alterations in Biochemical and Molecular Profile of Insects on Exposure to Xenobiotics	Dr. Sarita Kumar	Vatsal Bhargava, Parikshit Sahrotra, Harshita Sharma and Sunidhi Ancia	B.Sc. (H) Zoology, II year
2.	Identification of Cysteine- rich Domains in <i>Tetmemena</i> sp. Using Systematic Bioinformatics Tools	Dr. Seema Makhija Dr. Ravi Toteja	Ankush and Khushboo	B.Sc. Life Science, II year
3.	PhysicochemicalandBiologicalAnalysisofLeachatefromOkhlaLandfillImage: Constraint of the second	Dr. Seema Makhija Dr. Ravi Toteja Dr. Pooja Bhagat	Pranjal Sharma and Deepika Joshi	B.Sc. (H) Zoology, III year
4.	Studies on the Alteration in the Oviposition Potential and Fertility of Insects Exposed to Various Insecticides	Dr. Sarita Kumar	Sakshi Saraswat , Ayushi Ratauri, Sunil, Pushpanjali Das, Shilpi Singh and Kajal Goyal	B.Sc. (H) Zoology, II Year
5.	Microbiological Analysis of Leachate Collected from Okhla Dumping Site, Delhi	Dr. Seema Makhija Dr. Ravi Toteja Dr. Pooja Bhagat	Anmol, Deepika and Pranjal Sharma	B.Sc. (H) Zoology, II year
6.	Analysis of Water Quality for Aquaculture: Dissolved Oxygen, Ammonia, Nitrite, Nitrate, pH, Conductivity, Turbidity, etc.	Dr. Sweety Shrimali Dr. Cherita Dr. Seema Makhija Dr. Ravi Toteja	Sadaf, Priyanka Yadav, Sumran, Radhika, Mohit Singh and Shyam Manohar	B.Sc. Life Science, II Year
7.	Effect of UV Radiation on Ciliate <i>Blepharisma</i>	Dr. Ravi Toteja and Dr. Seema Makhija	Hritik Kadian and Juhi Jaiswal	B.Sc. (H) Zoology, II Year
8.	Phytochemical Screening of Mango Seed Extract; Fine- Tune Investigations on Ciliates, <i>Tetmemena</i> sp. ( <i>Stylonychia</i> )	Dr. Ravi Toteja and Dr. Seema Makhija	Umesh Jatav Jyoti Gautam	B.Sc. (H) Zoology, II Year B.Sc. (H) Biomedical
9.	To Study the Effect of Temperature and pH on the Growth of Bacteria ( <i>Escherichia coli</i> )	Dr. Ravi Toteja and Dr. Seema Makhija	Ekta Verma	B.Sc. (H) Zoology, II Year
10.	A Survey of Whatsapp Usage Among Different	Dr. Sarita Kumar	Prateek Trivedi	B.Sc. (H) Zoology,

	Groups of People			II Year
11.	To Study Insect Species Diversity in Campus of Acharya Narendra Dev College	Dr Sarita Kumar	Manoj Kumar	B.Sc. (H) Zoology, II Year
12.	Effects of Different Diets on the Growth and Development of <i>Helicoverpa armigera</i>	Dr. Sarita Kumar	Ayushi Raturi and Sunil	B.Sc. (H) Zoology, I Year
13.	Protein Profiling of Insect Haemolymph by Gel Electrophoresis	Dr. Sarita Kumar	Namarta Sharma	B.Sc. (H) Zoology, II Year
14.	CreationofOnlineRepositoryofZoologicalSpecimensandPermanentslides	Dr. Sarita Kumar	Harveen Kaur	B.Sc. (H) Zoology, II Year
15.	To Understand Chemotaxis Plasticity in Native Nematodes	Dr. Sarita Kumar Dr. Aparna Sharma	Shubham Rawat Gaurav and Purnendu	B.Sc. Life Sciences, II Year B.Sc. (H) Biomedical Science, I Year
16.	Study of Regeneration of Anterior Segments in the Earthworm <i>Eisenia fetida</i>	Dr. Sarita Kumar Mr. Ravinder Sagar	Harshita, Dipshi Aggarwal, Harmanpreet Kaur and Deepak Sahni	B.Sc. (H) Biomedical Science, II Year
17.	Physico-Chemical and Biological Analysis of Soil Samples Collected from ANDC	Dr. Ravi Toteja and Dr. Seema Makhija	Khusbhoo and Vanya	B.Sc. (H) Zoology, II Year
18.	Effect of Heavy Metals and Ethidium Bromide on DNA.	Dr. Ravi Toteja Dr. Seema Makhija Dr. Arijit Chowdhuri	Senjuti Chaitanya Raj	B.Sc. (H) Zoology, II Year B.Sc. (H) Physics, III Year
19.	Natural History of Butterfly Diversity at ANDC	Dr. Sarita Kumar Dr. Ravinder K Sagar	Shubahm Mohanty	B.Sc. (H) Zoology, I Year
20.	To Understand the Mechanism of Learning and Memory Formation in <i>Achatina fulica</i>	Dr. Sarita Kumar Dr. Ravinder K Sagar	Manisha Shipra Yadav	B.Sc. (H) Zoology, I Year B.Sc. (H) Biomedical Sciences, I Year

Acharya	Narendra	Dev	College
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<ul> <li>Impact of Climate Change on Albatross</li> <li>Dr. Sarita Kumar Mohit Rajput</li> <li>B.Sc. Life Sciences, II Year</li> <li>Protein Profiling of Haemolymph in <i>Helicoverpa armigera</i></li> <li>Dr. Sarita Kumar Dr. Sarita Kumar Nature Sahrotra and Harshita Sharma</li> <li>Drosophila melanogaster: A Potent Model Organism for Advanced Studies in Behavioural Sciences</li> <li>Dr. Sarita Kumar Dr. Sarita Kumar Maryada Arya</li> <li>Ant Culture and Behavioural Studies</li> <li>Dr. Sarita Kumar Studies</li> <li>Dr. Sarita Kumar Studies</li> <li>Dr. Sarita Kumar Maryada Arya</li> <li>Sunidhi Aneja</li> <li>Ssc. (H) Zoology, I year</li> <li>Isolation of Macronucleus from Ciliates</li> <li>Dr. Sarita Kumar Dr. Seema Makhija Dr. Ravi Toteja</li> <li>Ruchika Basc Life Sciences, II year</li> <li>Sunidhi Mishra, Naeem Ahmed, Zoology, I year</li> </ul>			Completion Report		
<ul> <li>22. Protein Profiling of Haemolymph in Helicoverpa armigera</li> <li>23. Drosophila melanogaster: A Potent Model Organism for Advanced Studies in Behavioural Sciences</li> <li>24. Ant Culture and Behavioural Studies</li> <li>25. Isolation of Macronucleus from Ciliates</li> <li>Dr. Sarita Kumar Makhija Dr. Seema from Ciliates</li> <li>Dr. Sarita Kumar Makhija Dr. Seema Makhija Dr. Ravi Toteja</li> <li>Dr. Seema Makhija, Sciences, III year</li> <li>Dr. Seema Makhija, Dr. Ravi Toteja</li> <li>Dr. Ravi Toteja</li> <li>Dr. Seema Makhija, Sciences, III year</li> <li>Dr. Ravi Toteja</li> <li>Ruchika B.Sc. (H) Zoology, II year</li> </ul>	21.	Impact of Climate Change on Albatross	Dr. Sarita Kumar	Mohit Rajput	B.Sc. Life Sciences, II Year
<ul> <li>23. Drosophila melanogaster: A Potent Model Organism for Advanced Studies in Behavioural Sciences</li> <li>24. Ant Culture and Behavioural Studies</li> <li>25. Isolation of Macronucleus from Ciliates</li> <li>Dr. Sarita Kumar Maryada Arya</li> <li>Dr. Sarita Kumar Sunidhi Aneja</li> <li>Dr. Seema Makhija Dr. Ravi Toteja</li> <li>Dr. Ravi Toteja</li> <li>Rajanshi Mishra, Nacem Ahmed, Zoology, II year</li> </ul>	22.	ProteinProfilingofHaemolymphinHelicoverpa armigera	Dr. Sarita Kumar	Vatsal Bhargava, Parikshit Sahrotra and Harshita Sharma	B.Sc. (H) Zoology, II year
24.Ant Culture and Behavioural StudiesDr. Sarita KumarSunidhi AnejaB.Sc. (H) Zoology, I year25.Isolation of Macronucleus from CiliatesDr. Seema Makhija Dr. Ravi TotejaDeepanshu VatsB.Sc Lif Sciences, II yearRuchika BhardawajB.Sc Lif Sciences, II yearRajanshi Mishra, Naeem Ahmed,B.Sc. (H) Zoology, I year	23.	Drosophila melanogaster: A Potent Model Organism for Advanced Studies in Behavioural Sciences	Dr. Sarita Kumar	Komal Kotra Maryada Arya	B.Sc. (H) Zoology, II year B.Sc. Life Sciences, III year
25.       Isolation of Macronucleus from Ciliates       Dr.       Seema Makhija Dr.       Deepanshu Vats       B.Sc       Lif         Dr. Ravi Toteja       Dr. Ravi Toteja       Ruchika B.Sc       Lif         Ruchika       B.Sc       Lif         Bhardawaj       Sciences, II year         Rajanshi Mishra, Naeem Ahmed,       B.Sc. (H)	24.	Ant Culture and Behavioural Studies	Dr. Sarita Kumar	Sunidhi Aneja	B.Sc. (H) Zoology, I year
Shushank and II year	25.	Isolation of Macronucleus from Ciliates	Dr. Seema Makhija Dr. Ravi Toteja	Deepanshu Vats Ruchika Bhardawaj Rajanshi Mishra, Naeem Ahmed, Shushank and Mustabin Ahmed	B.ScLifeSciences, II yearB.ScLifeSciences, III yearB.Sc. (H)Zoology,II year

#### Acharya Narendra Dev College Completion Report Annexure II Awards

- a. Siddharth Das B.Sc. Physical Science, Akash Gupta B.Sc (H) Physics won the Best Oral Presentation Award at NTNA 2019 held from 06 07 February 2019 at ARSD College, University of Delhi for work on 'Using Quartz Crystal Microbalance (QCM for CO2 detection at room temperature with Graphene Oxide (GO) coating'. –
- b. Using Surface Plasmon Resonance (SPR) technique to investigate the effect of Cadmium and ethidium bromide on DNA Collaborative project between students of Physics (Chaitanya Raj) and Zoology (senjuti Sengupta) that won the **Best Paper Award** at NTNA 2018 National Conference held from 27 28 September 2018 at ARSD College, University of Delhi
- c. Komal B.Sc. (H) Zoology-II year, Ritam Das B.Sc. Life Sciences-III year and Garima Kalakoti, B.Sc. Life Sciences-III year conferred **D D Kosambi, Young Scientist Award**, by HBCSE, TIFR, Mumbai on February 25, 2019
- d. Mr. Ritam Das, B.Sc. Life Science-II **Second Prize** in poster presentation in International Conference on 'Bacteriophage Research and Antimicrobial Resistance' by SERB-DST, DBT, CSIR, INSA and SFAM-UK, Vellore Institute of Technology on December 12-13, 2019
- e. Prahlad Prajapat and Ankita, B.Sc. (H) Electronics-III year **Best Poster** award for 'Arduino Based Solar Tracking System' at 'International Summit on Women in STEM, India Habitat.
- **f.** Rohit R. Gokhale of B.Sc. (H) Biomedical Sciences-II year was awarded **Third position** and a cash prize of INR 6000 in 'Industry Simulation' at International Management Institute, New Delhi, January 13, 2019.
- **g.** Arundhati Chaudhary of B.Sc. (H) Biomedical Sciences-III year and Ritam Das of B.Sc. Life Sciences-III year were given **Best Poster** Award at Third National Conference on 'Emerging Trends in Ayurvedic and Biomedical Sciences' BU, Jhansi on February 19-20, 2020.
- **h.** Jatinder Pal Singh of B.Sc. (H) Physics-III year won **Best Oral Presentation** in 2<sup>nd</sup> National Conference on New Trends in Nanotechnology & Applications (NTNA 2020), held at ARSD College, University of Delhi on February 06-07, 2020.
- i. Deepak Sahni of B.Sc. (H) Biomedical Science, III Year was Selected for INSA internship 2018 and he worked in IISER- Pune in Chromosome Biology lab.
- j. Gaurav Aggarwal and Priyanka Chauhan of B.Sc. (H) Biomedical Science III Year won the **Best poster** award at 6th world congress on Nanomedical Sciences held on January 7-9, 2019, Vigyan Bhawan New Delhi
- k. Chandan K. Rajak of B.Sc. (H) Biomedical Science, I Year Selected for SRFP 2019 (JNCASR) (Fellowship INR 10,000/- p.m.
- 1. Ravina Tondan of B. Sc. (H) Chemistry, III Year won **First Prize** in Poster Presentation on "Remediation of Heavy Metal ion Toxicity from Waste Water Using Functionalized Chitin" at the International Conference of the Public Health Foundation of India and Pacific Basin Consortium, November 14-16, 2017.
- m. The project "Brain-Controlled Wheelchair" won the **Second Prize** in the Project Category. The poster was presented by Abhishek Raiwani, of B. Sc. (H) Electronics, III Year at INSA on Science Day, February 28, 2018.
- n. Nahid of B.Sc. (H) Biomedical Sciences-II Year was awarded KVPY Fellowship, 2019

## Annexure III Students' Training

- a. Anmol, BSc (H) Zoology was selected as the IASc-INSA-NASI summer research fellow for the year 2019. I completed my internship under the guidance of Dr. Debashis Mitra, Scientist-G, National Centre for Cell Science, Pune, Maharashtra 411007. The topic of my internship was "Cloning and expression of DDX52 to study its effect on HIV-1 replication and infectivity."
- b. Rohit Gokhale of B.Sc. (H) Biomedical Science was selected for internship at La Jolla Institute of Immunology, San Diego, California, June July, 2019 (Fellowship \$2000 for two months).
- c. Hardik Minocha of B.Sc.(H) Electronics did his Internship in Ansys Infotech under the mentorship of Mr Kaif Ansari(owner) and Chakshu Bhardwaj (Senior Embedded Developer )for the duration on May 1-27, 2018 and April 17- July 30, 2019.
- d. Mr. Jatinder Pal Singh and Ms. Priya Chopra of B.Sc. (H) Physics were trained on thin film deposition technique of Thermal Evaporation and Electron beam evaporation at Electronic Materials & Devices Laboratory at Department of Physics & Astrophysics, University of Delhi. Their period of training was for 10 days during the period 01 - 10 June 2018 in the fabrication laboratory headed by Professor Vinay Gupta.
- e. Mr. Anshuman Tripathi and Mr. Akash Gupta of B.Sc. (H) Physics and Mr. Siddharth Das of B. Sc. Physical Science (Electronics) were trained on optical characterization technique of Surface Plasmon Resonance using Au thin film coated prisms and Thermal Evaporation at Electronic Materials & Devices Laboratory at Department of Physics & Astrophysics, University of Delhi. Their period of training was for 15 days during the period 14 30 June 2019 in the laboratory headed by Professor Vinay Gupta.
- f. Somak Nandy of B.Sc. (H) Biomedical Science did Internship on project titled 'General Molecular Biology Techniques' under Dr Srivatsava Naidu at IIT-Ropar from June-July 2019.
- g. Jayati Khanna of B.Sc.(H)Biomedical Science did Internship under Summer Undergraduate Research Program of Dr. B. R. Ambedkar Center of Biomedical Research from June -July, 2018.
- h. Somak Nandy of B.Sc. (H) Biomedical Science did Internship on project titled 'General Molecular Biology Techniques' under Dr Srivatsava Naidu at IIT-Ropar from June-July 2019.
- i. Arpit Sharma of B.Sc. (H) Biomedical Science did Summer programme at IIT Madras to learn use of various biomedical tools in 2019.
- j. Sachin Sharma of B.Sc. (H) Biomedical Science did Internship on project titled 'Molecular Drug Designing' under Dr Andrew Lynn at School of Computational Biology, JNU from May 27 –July 5, 2019.
- k. Swarnasankha Acharjee of B.Sc. (H) Biomedical Science did Summer Training in Sherlock Institute of Forensic Science India (SIFSI) from June 1-30, 2019.
- 1. Ritika Madaan of B.Sc. (H) Biomedical Science was selected for pursuing a project on "Practice of AYUSH treatment in Breast Cancer Care in India" under Student Mentorship Programme organized by All India Institute of Medical Sciences (AIIMS) and Indian Society of Clinical Oncology (ISCO) along with Pink Chain Campaign (PCC) from 2018-2019.
- m. Akhila A. of B.Sc. (H) Biomedical Science did Summer Research Fellowships Programme 2018 at Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru.
- n. Anmol, BSc (H) Zoology worked as a summer intern under the guidance of Prof. Subramaniam Ganesh, BSBE, IIT, Kanpur. The topic of my project was "Engineering a mammalian expression construct for SSBP1 and SSBP1∆MTS.
- o. Shubam Mohanty, BSc (H) Zoology III Yr did his Summer internship on 'Biodiversity in human made ecosystems' under Dr Surender Varma (senior-scientist) at Asian Nature Conservation foundation, IISc Bengaluru from June to August, 2019

- i. Expedition to Dharwad near Kali Tiger Reserve Karnataka, to survey Human elephant interaction fron June 22-26, 2019
- ii. Expedition to Coorg, Karnataka during National moth week to survey hunting practices in Coorgi people on July 27-30,2019.
- p. Four students from Acharya Narendra Dev College, University of Delhi, Aakash Kumar (B.Sc. Life Sciences 3rd Year), Aditya Khandelwal (B.Sc. Life Sciences 3<sup>rd</sup> Year), Manisha Bishnoi (B.Sc. Zoology Hons. 2nd Year, Surbhi Singh (B.Sc. Zoology 2nd year) were given the opportunity to visit the Translational Health Sciences and Technology Institute and work under their scientists for a period of one week from December 20-28, 2018. They worked in the Pediatric Biology Centre (PBC) of THSTI.
- q. Prince Sharma has participated in the Web Designing Workshop organized by National Service Scheme, Jawaharlal Nehru University, New Delhi from 21 January 2018 at Convention Center, JNU.
- r. Prince Sharma successfully completed a course on Java Programming: Solving Problems with Software on Coursera.
- s. Bhaskar Jyoti Prasad of B.Sc (H) Botany did his Summer Research Fellowship from Indian Academy of Sciences (IAS), Bangalore from May-July, 2019.
- t. Aditya Raj of B.Sc.(H) CS did his Internship on Graphic Designing with Arise Society for 3 months (June 26, 2020 September 26, 2020)

- a. Charu K. Gupta, Jatinder Pal Singh, Priya Chopra, V. Bhasker Raj and Arijit Chowdhuri (2017) Gauging the nature and magnitude of Particulate Matter (PM) concentrations in Bengaluru, the IT capital of India". DU Journal of Undergraduate Research and Innovation Volume 3, Issue 2, pp 71-81 [ISSN: 2395-2334].
- **b.** Anand Kumar Bharti, Utkarsh Garg, Apurva Malik 'Moringa oleifera L.: A neglected multipurpose plant with immense medicinal potential'. Title of the Book: Scope of Phytochemically Unexplored Medicinal Plants. Publishers: Enriched Publications, New Delhi. ISBN No. 978-1-63535-013-5.
- c. Amrita Kumari, Abhijeet, Aman Sharma, Ankit Kumar Baliyan, Kiran and Ravneet Kaur (2018) Gesture Recognizing Smart System", DU Journal of Undergraduate Research and Innovation, Volume 3, Issue 2, pp 01-11.
- d. Ashish Choudhary, Jeeva Susan Abraham, S. Sripoorna, Manu Sankar, Vikas Ahlawat, Renu Gupta, Seema Makhija, Ravi Toteja (2017) Evaluation of the cytotoxic effect of pesticide malathion on freshwater ciliate, Tetmemena sp. DU Journal of undergraduate research and innovation, 2 (1): 20–30.
- e. S. Sripoorna, Jeeva Susan Abraham, Swati Maurya, Hritik Kadian, Juhi Jaiswal, Seema Makhija, Ravi Toteja (2017) Ultraviolet B induced protection strategies in unicellular eukaryotic microbes Blepharisma sp. and Notohymena sp. (Protista). DU Journal of undergraduate research and innovation, 3:60–73.
- f. Jeeva Susan Abraham, Sripoorna Somasundaram, Shiv Jangra, Anit Kumar, Khushi Yadav, Simran Singh, Anusha Goyal, Swati Maurya, Geetu Gambhir, Ravi Toteja, Renu Gupta, Dileep K. Singh, Hamed A. El-Serehy, Fahad A. Al-Misned, Saleh A. Al-Farraj, Khaled A. Al-Rasheid, Saleh A. Maodaa and Seema Makhija (2019) Soil ciliates of the Indian Delhi Region: Their community characteristics with emphasis on their ecological implications as sensitive bio-indicators for soil quality. Saudi Journal of Biological Sciences, 26(6): 1305-1313

#### Acharya Narendra Dev College Completion Report Annexure V Hands-on Experiments

## **Biomedical Science**

- 1. Preparation of solutions/buffers based on molarity, normality, percentage, dilutions etc.
- 2. Estimation of Mohr's salt/ oxalic acid by titrating with KMNO4.
- 3. Estimation of Cu (II) ions iodometrically using Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>.
- 4. Qualitative tests for identification of carbohydrates.
- 5. To determine the Iodine number of the given oil/ fat.
- 6. To find pKa value of given acetic acid/ amino acid.
- 7. Absorption spectrum of DNA/ Protein
- 8. Microscopy- Theoretical knowledge of Light and Electron microscope.
- 9. To explain mitosis and meiosis using permanent slides.
- 10. Cytochemical staining for proteins, carbohydrates and DNA in cheek cells or onion peel.
- 11. To study the effect of isotonic, hypotonic and hypertonic solutions on cells.
- 12. Observation of wild type and mutant phenotypes in Drosophila.
- 13. Preparation of culture media for *Drosophila* and study different stages of life cycle of *Drosophila*.
- 14. Verification of Mendelian laws through *Drosophila* / seeds dominant, recessive and sex-linked.
- 15. Karyotyping with the help of photographs. To prepare polytene chromosomes.
- 16. To study various types of fractures from X ray films
- 17. To study different human organs and their sections through permanent histological slides
- 18. Protein estimation by any one: Lowry's/Bradford method.
- 19. Calculation of void volume of Sephadex G -25 column, using blue dextran.
- 20. Assay of any one enzyme under optimal conditions and effect of pH and temperature on its activity.
- 21. Physiological data acquisition based experiments (ECG/EMG/EEG/PFT)
- 22. Blood experiments
- 23. To perform tests for sensations (taste, touch and smell)
- 24. To study various types of contraceptive
- 25. Preparation of different media: synthetic media, Complex media-nutrient agar, Luria Agar.
- 26. Staining methods: Gram's staining, Acid fast staining, Capsule staining and spore staining.
- 27. Study and plot the growth curve of *E coli* using OD.
- 28. To perform antibacterial testing by Kirby-Bauer method.
- 29. Staining and morphological characterization of *Aspergillus* sp., *Pencillium* sp. and *Saccharomyces*
- 30. PCR based method of detection.
- 31. Isolation of bacteriophages (non-pathogenic host) and calculation of plaque forming units (pfu).
- 32. To perform immuno-diffusion by Ouchterlony method and Mancini method and its Analysis.
- 33. Preparation of various experiments of Molecular Biology Laboratory.
- 34. Preparation of Aspirin and determination of partition coefficient in octanol-water system.
- 35. Extraction of caffeine from tea leaves and study its absorption properties.
- 36. To determine the optical rotation of a biomolecule.
- 37. Estimation of (i)  $Mg^{2+}$  or (ii)  $Zn^{2+}$  by complexometric titration using EDTA
- 38. Searching databases for drug like compounds and computing drug
- 39. Determination of viscosity of a macromolecule (Protein/DNA).
- 40. Effect of different solvents on UV absorption spectra of proteins.
- 41. Analysis, identification and comparison of various spectra of simple organic compounds.
- 42. Quantitative determination of the following in the whole blood/plasma/serum: LFT, KFT, Metabolites, Serum glucose, Hormonal profile T3/T4, TSH and related case studies.
- 43. Mendelian laws and gene interaction using Drosophila crosses., Chi-square and probability.

- 44. Study to Linkage, recombination, gene mapping using marker based data from Drosophila.
- 45. Study of Hardy-Weinberg Law using simulations (seeds).
- 46. Toxicological Investigations and Therapeutic drug monitoring: salicylates, paracetamol, alcohols, acetone, methanol, phenol and formaldehyde.
- 47. Separation of a mixture of benzoic acid, S-naphthol and naphthalene by solventextraction and identification of their functional groups.
- 48. Analysis of the given sample for the presence of pesticides.
- 49. Water analysis
- 50. Estimation of  $LD_{50}$  value of an insecticide from the data provided.
- 51. Searching of scientific information using NCBI, or any search engine.
- 52. Identification of gene using gene scan, Primer designing using software, Pair wise alignment and multiple sequence alignment. Phylogenetic analysis.
- 53. Giemsa-stained Human chromosome preparation.
- 54. Haplotype construction.
- 55. Urine Analysis: Gross examination of urine for colour, odour etc. Abnormal constituents like protein, ketone bodies, glucose, blood, urea (any three)
- 56. Tissue Processing, embedding, sectioning. Staining and preparation of permanent histological slide.
- 57. Study of histological slides showing hypertrophy, hyperplasia, dysplasia, leukemia, cirrhosis and any common cancer.
- 58. Diagnostic tests for detection of various Diseases CRP, VDRL, RA, Pregnancy, Dengue and HIV.
- 59. Molecular format conversion and hands-on molecular visualization program for displaying, animating and analyzing large bio-molecular systems using 3-D graphics.
- 60. Bioinformatics
- 61. Western Blotting
- 62. Southern Blotting
- 63. Hands on practical on various methods of developing fingerprints in Forensic science
- 64. Study of security features present in Bank notes and CBSE mark sheets in Forensic science
- 65. Hands on performance of Polymerase Chain Reaction
- 66. Measurement of cell size using Micrometer
- 67. To determine the WBC, platelets and RBCs count
- 68. Developing TLC of fingerprints using various chemical methods
- 69. Cyber forensics by a cyber expert from Delhi Police helped students understand the various aspects of cyber forensics

## Botany

- 1. Type studies of plant kingdom ranging from unicellular algae to multicellular trees.
- 2. Cell study through Gram staining, Endospore staining, micrometry, haemocytometer.
- 3. Cytochemical staining of protein, carbohydrates and DNA.
- 4. Slide preparation to study mitosis and meiosis in plants.
- 5. Qualitative tests for carbohydrates, reducing sugars, non-reducing sugars, lipids and proteins.
- 6. Analysis for carbonates, chlorides, nitrates, sulphates, organic matter and base deficiency by rapid field tests.
- 7. Determination of organic matter of different soil samples by Walkley & Black rapid titration method.
- 8. Determination of dissolved oxygen of water samples from polluted and unpolluted sources.
- 9. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus, by species area curve method.
- 10. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law and for estimating density and abundance.
- 11. Field visit to familiarise students with ecology of different sites.
- 12. Introduction and specific details of economically important plants.
- 13. Mendel's laws and gene interactions through seed ratios and study of Hardy-Weinberg Law using simulations (seeds).
- 14. Enzyme kinetics.
- 15. Study of vegetative and floral characters of plant families and preparation of herbarium
- 16. Genomic and plasmid DNA isolation from plants, microbes, restriction enzyme digestion and DNA estimation.
- 17. Determination of osmotic potential of plant cell sap by plasmolytic method.
- 18. Determine water potential of given tissue by weight method and falling drop method.
- 19. Study of the physiological response of plants to various environmental factors.
- 20. Calculation of the stomatal index, stomatal frequency and percentage of leaf area open through stomata in a mesophyte and a xerophyte.
- 21. Bioinformatics.
- 22. Introduction to plant biotechnology.
- 23. Students are required to perform at least one long-duration experiment as project in plant physiology.
- 24. Preparation of tissue culture medium
- 25. Agarose gel electrophoresis and Polyacrylamide gel electrophoresis
- 26. Micropropagation of plants through various explants
- 27. Isolation of genomic DNA
- 28. Alcohol Production by yeast using jaggery/sugar
- 29. Isolation of microorganisms from water, soil and air using serial dilution methods
- 30. Hands on performance of microbial cell cultures and preparation of different culture media
- 31. Isolation of VAM from root and/or soil
- 32. Isolation of chloroplast pigments through column chromatography
- 33. Restriction digestion of plasmid DNA
- 34. Southern Blotting
- 35. Embryogenesis and Artificial seed production
- 36. Extraction and identification of phytochemicals in different ethno-botanically important plants.

## Chemistry

- 1. Acid-Base titrations, Oxidation-Reduction titrimetry, Iodo and iodimetric titrations, Argentometric titrations, Complexometric titrations
- 2. Gravimetric analysis
- 3. Synthesis of complexes and spectrophotometric characterization ( $\lambda$ max), Spectophotometric estimations
- 4. Separation of mixtures of metal ions by chromatography
- 5. Preparation of complexes and measurement of their conductivity
- 6. Semi-micro qualitative analysis of mixture of ions using H<sub>2</sub>S
- 7. Preparation silver nanoparticles
- 8. Purification of organic compounds by crystallization
- 9. Determination of the melting points of unknown organic compounds (Kjeldahl method and electrically heated melting point apparatus)
- 10. Determination of boiling point of liquid compounds by capillary method
- 11. Ascending and horizontal paper chromatography, Thin layer chromatography (TLC)
- 12. Detection of extra elements in organic compounds
- 13. Organic Preparations, recrystallization, characterize by melting point, TLC and yield
- 14. Systematic Qualitative Organic Analysis of Organic Compounds possessing mono-functional and bi-functional groups and preparation of one derivative
- 15. Solvent Extractions
- 16. Isolation and estimation of selected bio-molecules
- 17. Analysis of soil

- 18. Determination of dissolved oxygen in water, Biological oxygen demand, chemical oxygen demand
- 19. Surface tension measurements using stalagmometer
- 20. Viscosity measurement using Ostwald's viscometer
- 21. Determination of critical solution and phase equilibria
- 22. Distribution equilibria
- 23. Chemical energetic- Thermochemistry
- 24. Kinetic studies, Ionic equilibria
- 25. pH metry, Potentiometric titrations, Conductometric titrations, Molecular modelling
- 26. UV/Visible spectroscopy, Colorimetry, Adsorption.
- 27. Cleaning and Calibration of Apparatus
- 28. Weighing on Analytical Balance
- 29. Measuring melting point
- 30. Volumetric analysis
- 31. Purification of solids by Filtration
- 32. Purification of liquids by distillation
- 33. Liquid-liquid extractions
- 34. Rotary evaporation
- 35. Refluxing
- 36. Thin layer chromatography
- 37. Column chromatography
- 38. Gravimetric Analysis.
- 39. UV-Visible Spectroscopy
- 40. Analytical techniques using colorimeter, potentiometer, pH-meter
- 41. Molecular modeling.

## **Computer Science**

- 1. WAP for following using gcc, Loops, Functions, ArraysFiles
- 2. Use of classes, inheritance and polymorphism using gcc.
- 3. Using CPUSIM, simulate the machine for-Memory inference, Register inference, I/P O/P
- 4. WAP for the following in Scilab- Functions of matrix, Equations solving using numerical methods, Functions of vectors
- 5. WAP for the following data structures using gcc-Queues, Stacks, Linked lists, Sorting, Searching
- 6. Use of various Unix commands.
- 7. Using gcc, WAP for the following, Behaviour of Linux kernel, CPU scheduling algorithms, Threading in processes
- 8. WAP using gcc for- Routing algorithms, Data link layer protocols
- 9. Using MSQL, create and manipulate database.
- 10. Using gcc, WAP for the following, Sorting algorithms, Searching algorithms, Trees
- 11. Using TASM, WAP for-Binary addition, subtraction, multiplication and division, Conversions to ASCII, Manipulating arrays
- 12. WAP using gcc for-Scanning algorithms, Clipping algorithms, 2D and 3D transformations, 2D projections
- 13. Implement various projects showing steps in software engineering.
- 14. WAP to get familiar with YACC and LEX.
- 15. WAP to show TCP and UDP functions on clients and servers.
- 16. WAP to get familiar with PROLOG and JADE.
- 17. Using gcc, WAP for various Ciphers.
- 18. Using gcc, WAP to display, Permutation and combination, Set theory, Relation
- 19. Building GUI for application in python
- 20. Building GUI for application in python.
- 21. App development using Android Studio

## Electronics

### Completion Report

- 1. Verification of Network Theorems: Thevenin, Superposition, Maximum Power Transfer Theorem.
- 2. RC Circuits: Time Constant, Differentiator, Integrator.
- 3. Design a Low Pass and High Pass RC Filter and Study its Frequency Response.
- 4. To Study the Generation of Lissajous Figures.
- 5. To Measure the Z-Parameters of a Two-Port Network.
- 6. To Study the Frequency Response of a Series LCR Circuit and Determine its (a) Resonant Frequency (b) Impedance at Resonance (c) Quality Factor Q (d) Band Width
- 7. To Study the I-V Characteristics of Diode Ordinary and Zener Diode.
- 8. To Study the I-V Characteristics of the CB/CE/CC Configuration of BJT aTo Study the I-V Characteristics of the UJT, SCR, FET Configuration.
- 9. To study the half wave rectifier and Full wave rectifier.
- 10. To study power supply using C filter and Zener diode.
- 11. To study clipping circuits and clamping circuits
- 12. To study Fixed Bias, Voltage divider and Collector-to-Base bias Feedback configuration for transistors.
- 13. To design a Single Stage CE amplifier.
- 14. To study Class A, B and C Power Amplifier.
- 15. To study the Colpitt's Oscillator, Phase Shift Oscillator
- 16. To study the frequency response of Common Source FET amplifier.
- 17. To verify and design AND, OR, NOT and XOR gates using NAND gates.
- 18. To convert a Boolean expression into logic gate circuit and assemble it using logic gate IC,s.
- 19. Design a Half and Full Adder, Half and Full Subtractor.
- 20. Design a seven segment display driver.
- 21. Design a 4 X 1 Multiplexer using gates.
- 22. To build a Flip- Flop Circuits using elementary gates.(RS, Clocked RS, D-type).
- 23. Design a counter using D/T/JK Flip-Flop.
- 24. Design a shift register and study Serial and Parallel shifting of data.
- 25. To study op-amp characteristics: CMRR and Slew rate.
- 26. Designing an amplifier of given gain for an inverting and non-inverting config using an op-amp.
- 27. To design an integrator and differentiator using op-amp for a given specification and study its frequency response.
- 28. To design a First Order and Second Order Low-pass and High-pass filter using op-amp.
- 29. To design a Band Pass/ Band Reject filter using op-amp.
- 30. To design a RC Phase Shift Oscillator using op-amp for a given specification
- 31. To study IC 555 as an astable multivibrator.
- 32. Studying the variations of thermo-emf of a thermocouple.
- 33. To calibrate a thermocouple to measure temperature in a specified range
- 34. Frequency measurement using change in resistance using LDR.
- 35. Study of Wein bridge oscillator.
- 36. Study of De Sauty's bridge, Anderson's bridge, Carey foster bridge .
- 37. Design of multi range ammeter and voltmeter using galvanometer.
- 38. Study of Amplitude (AM), Frequency (FM) modulation and demodulation
- 39. Study of PAM, PWM, PPM
- 40. Study of Pulse Code Modulation (PCM), DPCM, Delta Modulation (DM), ADM
- 41. Study of ASK, PSK, FSK
- 42. To verify the law of Malus for plane polarized light.
- 43. To determine wavelength of sodium light using Newton's Rings.
- 44. To determine the resolving power and Dispersive power of Diffraction Grating.
- 45. Diffraction experiments using a laser.
- 46. To determine the specific rotation of scan sugar using polarimeter.

- 47. Characteristics of LEDs and Photo- detector.
- 48. To measure the numerical aperture of an optical fiber.
- 49. To determine refractive index of the material of a given prism using Sodium Light.
- 50. To determine the resolving power of a prism.
- 51. To determine wavelength of light using Fresnel Biprism.
- 52. To study the I-V characteristics of DIAC, SCR, TRIAC
- 53. SCR as a half wave and full wave rectifiers.
- 54. DC motor control using SCR and TRIAC
- 55. To use UJT as a trigger for TRIAC.
- 56. To study parallel and bridge inverter.
- 57. To measure the resistivity of semiconductor crystal with temperature by four-probe method.
- 58. To determine the type (n or p) and mobility of semiconductor material using Hall-effect.
- 59. Modulation of LED and detection through Photo detector.
- 60. To study the characteristics of DC Series and Shunt motor .
- 61. To study characteristics of single phase induction motor.
- 62. To study control of DC motor by SCR.
- 63. To Study Stepper Motor.
- 64. To Study Open Circuit and Short Circuit Test on single phase transformer.
- 65. To determine the temperature coefficient of resistance by platinum resistance thermometer.
- 66. Microprocessor/Microcontroller based experiments
- 67. Physics based experiments
- 68. Computer Networks based experiments
- 69. Study of 16 QAM modulation and Detection with generation of Constellation Diagram
- 70. To determine the Characteristics of LVDT
- 71. Measure of low resistance by Kelvin's double bridge
- 72. To determine the Characteristics of resistance transducer Strain Gauge (Measurement of Strain using half and full bridge)
- 73. Measurement of Low Resistance of Kelvin's Double Bridge
- 74. To determine the characteristics of resistance transducer-strain gauge (Measurement of strain using half and full bridge
- 75. To determine the characteristics of LVDT
- 76. Study of Pulse Code Modulation (PCM), DPCM, Delta Modulation (DM), ADM
- 77. Study of ASK, PSK, FSK
- 78. Study of FDM
- 79. SPARK V Robot (I/O Programming)
- 80. SPARK V Robot (Motion Control and Obstacle Detection)
- 81. AVR Programming in Assembly and C in AVR Studio
- 82. Interfacing of AVR microcontroller with LED, buzzer, seven segment display and LCD
- 83. Interfacing of AVR microcontroller with D.C. motor and stepper motor.
- 84. Study of various characteristics of EM Wave propagation (in scilab).
- 85. Representation and transformation of vectors in Cartesian, cylindrical and spherical coordinates Plotting of Gradient of a scaler field, Curl and Divergence of vector fields.
- 86. Plot of Electric Field and Electric Potential due to various charge distributions. Plots of magnetic flux density due to current carrying wire
- 87. Studying the variation of thermo-emf of a thermocouple.
- 88. Frequency measurement using change in resistance using LDR.
- 89. To design a RC Phase Shift Oscillator using op-amp for a given specification Design a counter using D/T/JK Flip-Flop.
- 90. Design a shift register and study Serial and Parallel shifting of data.
- 91. To Study the I-V Characteristics of the UJT, SCR, FET Configuration.
- 92. To study power supply using C filter and Zener diode.

### Completion Report

- 93. To study Fixed Bias, Voltage divider and Collector-to-Base bias Feedback configuration for transistors
- 94. Study of FDM

## Physics

- 1. Random errors
- 2. Using a Sextant
- 3. Spring constant
- 4. Acceleration due to gravity
- 5. Modulus of rigidity
- 6. Moment of Inertia of a Flywheel
- 7. Young's Modulus of a Wire
- 8. Elastic Constants of a wire
- 9. Bar Pendulum
- 10. Kater's Pendulum
- 11. Series RC Circuit
- 12. Low Resistance using Potentiometer
- 13. Carey Foster's bridge
- 14. De'Sauty's bridge
- 15. Determination of dB/dx
- 16. Thevenin Theorem verification
- 17. Norton
- 18. Superposition
- 19. Maximum power transfer theorems
- 20. Anderson's bridge,
- 21. Series and parallel LCR
- 22. Ballistic galvanometer
- 23. Melde's experiment
- 24. Coupled oscillators,
- 25. Schuster's focusing
- 26. Refractive index
- 27. Cauchy constants
- 28. Fresnel Biprism,
- 29. Newton's Rings
- 30. Diffraction grating
- 31. Callender and Barne's method
- 32. Searle's thermal conductivity method
- 33. Angstrom's method
- 34. Lee and Charlton's method
- 35. Platinum Resistance Thermometer
- 36. Thermocouple
- 37. Planck's constant
- 38. H-alpha of Hydrogen atom
- 39. Rotational spectrum of Iodine vapour
- 40. Value of e/m,
- 41. Wavelength of He-Ne laser
- 42. Four probe method
- 43. Hall coefficient
- 44. Malus law
- 45. Polarimeter
- 46. Elliptically polarized light
- 47. Ultrasonic waves in a liquid

- 48. Total internal reflection
- 49. Determination of Stefan's constant
- 50. Boltzmann constant
- 51. Sample and Hold Circuits
- 52. Clippers and Clamper circuits
- 53. Loading effect of a multimeter,
- 54. Cathode Ray Oscilloscope (CRO)
- 55. I-V characteristics of LEDs, Solar Cell, Photodiode, IR and LD
- 56. Combinational logic system,
- 57. Logic gate ICs,
- 58. Half adder, Full adder and 4-bit Binary Adder,
- 59. Half Subtractor, Full Subtractor, Adder-Subtractor,
- 60. Astable multivibrators
- 61. Monostable multivibrators,
- 62. PN, Zener and LED characteristics,
- 63. BJT in CE mode,
- 64. Voltage divider bias,
- 65. Op-amp 741 and its characteristics,
- 66. Flip-Flops (RS, JK, D),
- 67. 4-bit Shift Register (serial and parallel),
- 68. Solar cell,
- 69. Biasing configurations of BJT,
- 70. Two stage RC-coupled transistor amplifier,
- 71. Wien bridge oscillator,
- 72. Phase shift oscillator,
- 73. Digital to analog converter (DAC),
- 74. Zero-crossing detector and comparator,
- 75. Op-amp as integrator and differentiator,
- 76. Circuit to simulate 1st/2nd order differential equation,
- 77. Bridge rectifier and study effect of C-filter,
- 78. Active Low and High pass filters, of given specification,
- 79. JFET,
- 80. UJT and relaxation oscillator,
- 81. Amplitude and frequency modulation,
- 82. Pulse modulation PWM, PPM, PAM,
- 83. Phase Locked Loop,
- 84. Time Division Multiplexing (TDM),
- 85. ASK, PSK and FSK modulators
- 86. Direct and indirect addressing,
- 87. Multiplication, Division,
- 88. 16-bit Numbers,
- 89. CALL and RETURN,
- 90. Block data handling,
- 91. Parity Check,
- 92. Using interrupts etc.,
- 93. Prime numbers,
- 94. Factorial,
- 95. Using ports of 8051,
- 96. Up and down counting,
- 97. Interfacing,
- 98. Application of embedded systems

99. LED flashing and intensity variation

- 100. Stepper motor
- 101. LCD
- 102. CRO interfacing,
- 103. Prime numbers,
- 104. Factorial,
- 105. TIMER application,
- 106. Application of embedded systems: Temperature measurement etc.
- 107. Some information on LCD display,
- 108. Interfacing a keyboard.
- 109. Numerical computation software Scilab
- 110. C++/C/Scilab based simulations experiments on Mathematical Physics,
- 111. C++/C/Scilab based simulations experiments on Quantum Mechanics,
- 112. C++/C/Scilab based simulations experiments on Statistical Mechanics problems, Digital signal processing laboratory
- 113. Measurement of complex dielectric constant and plasma frequency of metal using
- 114. Measurement of complex dielectric constant and plasma frequency of metal using Surface Plasmon resonance (SPR) technique
- 115. Determination of refractive index of a dielectric layer using SPR technique.
- 116. Measurement of P-E hysteresis and plotting its characteristics
- 117. Systematic determination of wavelength of LASER by studying the diffraction pattern produced by a plane diffraction grating having different grating constants.
- 118. Measurement of numerical aperture (NA) of an optical fiber
- 119. To determine the wavelength of laser source using diffraction of single slit.
- 120. To determine the wavelength of laser source using diffraction of double slits.
- 121. To determine angular spread of He-Ne laser using plane diffraction grating
- 122. To find the width of the wire or width of the slit using diffraction pattern
- 123. To find the polarization angle of laser light using polarizer and analyzer
- 124. Studying the characteristics of Light Dependent Resistor (LDR)
- 125. Studying the characteristics of MOSFET
- 126. Studying the characteristics of DIAC
- 127. Studying the characteristics of TRIAC
- 128. Recording holograms
- 129. Reconstructing holograms
- 130. Arduino microcontrollers

## Zoology

- 1. Study of life tables, population density by quadrate method and calculation of Shannon-Weiner diversity index for the same community
- 2. Physico-chemical and Biological analysis of aquatic ecosystems
- 3. Slide Preparation: Cytochemistry, cell division, Polytene Chromosome, Histological Preparation and Temporary mounts of animal tissues.
- 4. Quantitative and Qualitative tests of carbohydrates, proteins and lipids.
- 5. Chromatography of biomolecules.
- 6. Enzyme kinetic studies.
- 7. Blood Experiments
- 8. E. coli culture: Media preparation and Growth Kinetics.
- 9. Bioinformatics and Biostatics
- 10. Behavioral experiments
- 11. Basics Biotechnology: Genomic and Plasmid DNA isolation etc.
- 12. Ouchterlony's double immuno-diffusion method

- 13. Cell viability experiments.
- 14. Detecting adulteration in food sample.
- 15. Estimation of lactate, ascorbate and calcium by titration.
- 16. Separation of proteins by SDS-Polyacrylamide gel
- 17. Southern Blotting and Electroblotting
- 18. PTC test, to analyze Mendelian inheritance and study Hardy-Weinberg Law.
- 19. Culturing and observation of ciliates/bacteria
- 20. DNA isolation from bacterial culture
- 21. Agarose Gel electrophoresis
- 22. Polymerase chain reaction (PCR) using 18S rRNA primers
- 23. Phylogenetic analysis using bioinformatic tools
- 24. ELISA and Immunoelectrophoresis
- 25. Isolation of environmental DNA from soil samples
- 26. Determination of zooplankton diversity in freshwater samples



## **Number of Hands-on Practicals**

#### Acharya Narendra Dev College Completion Report Annexure VI New Experiments

### **Biomedical Science**

- 1. Western Blotting
- 2. Southern Blotting
- 3. Hands on practical on various methods of developing fingerprints in Forensic science
- 4. Study of security features present in Bank notes and CBSE mark sheets in Forensic science
- 5. Hands on performance of Polymerase Chain Reaction
- 6. Measurement of cell size using Micrometer
- 7. To determine the WBC, platelets and RBCs count
- 8. Developing TLC of fingerprints using various chemical methods
- 9. Cyber forensics by a cyber expert from Delhi Police helped students understand the various aspects of cyber forensics

## Botany

- 1. Preparation of tissue culture medium
- 2. Agarose gel electrophoresis and Polyacrylamide gel electrophoresis
- 3. Micropropagation of plants through various explants
- 4. Isolation of genomic DNA
- 5. Alcohol Production by yeast using jaggery/sugar
- 6. Isolation of microorganisms from water, soil and air using serial dilution methods
- 7. Hands on performance of microbial cell cultures and preparation of different culture media
- 8. Isolation of VAM from root and/or soil
- 9. Isolation of chloroplast pigments through column chromatography
- 10. Restriction digestion of plasmid DNA
- 11. Southern Blotting
- 12. Embryogenesis and Artificial seed production
- 13. Extraction and identification of phytochemicals in different ethno-botanically important plants.

## Chemistry

- 1. Cleaning and Calibration of Apparatus
- 2. Weighing on Analytical Balance
- 3. Measuring melting point
- 4. Volumetric analysis
- 5. Purification of solids by Filtration
- 6. Purification of liquids by distillation
- 7. Liquid-liquid extractions
- 8. Rotary evaporation
- 9. Refluxing
- 10. Thin layer chromatography
- 11. Column chromatography
- 12. Gravimetric Analysis.
- 13. UV-Visible Spectroscopy
- 14. Analytical techniques using colorimeter, potentiometer, pH-meter
- 15. Molecular modeling

## **Computer Science**

- 1. Building GUI for application in python
- 2. Building GUI for application in python.
- 3. App development using Android Studio

## Electronics

1. Study of 16 QAM modulation and Detection with generation of Constellation Diagram

- 2. To determine the Characteristics of LVDT
- 3. Measure of low resistance by Kelvin's double bridge
- 4. To determine the Characteristics of resistance transducer Strain Gauge (Measurement of Strain using half and full bridge)
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- 24. To study power supply using C filter and Zener diode.
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- 26. Study of FDM

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- 3. Measurement of P-E hysteresis and plotting its characteristics
- 4. Systematic determination of wavelength of LASER by studying the diffraction pattern produced by a plane diffraction grating having different grating constants.
- 5. Measurement of numerical aperture (NA) of an optical fiber
- 6. Studying the characteristics of Light Dependent Resistor (LDR)
- 7. Recording holograms
- 8. Arduino microcontroller

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- 7. Culturing and observation of ciliates/bacteria
- 8. DNA isolation from bacterial culture
- 9. Agarose Gel electrophoresis
- 10. Polymerase chain reaction (PCR) using 18S rRNA primers
- 11. Phylogenetic analysis using bioinformatic tools

- 12. ELISA and Immunoelectrophoresis
- 13. Isolation of environmental DNA from soil samples
- 14. Determination of zooplankton diversity in freshwater samples
- 15. Restriction Digestion of Plasmid DNA
- 16. Physico-chemical properties of soil

## Number of New Experiments Introduced



### Acharya Narendra Dev College Completion Report Annexure VII Publications (Scopus Indexed)

S. No.	Authors names	Title of the paper	Journal details	Year
Biome	edical Sciences			
1.	Eniyan K, Dharavath S, Vijayan R, <b>Bajpai U</b> & Gourinath S	Crystal structure of UDP-N- acetylglucosamine-enolpyruvate reductase (MurB) from Mycobacterium tuberculosis	Biochimica et Biophysica Acta(BBA)-Proteins and Proteomics, Vol. 1866(3), pp. 397-406	2018
2.	Zhang W & Dhawan G	A brief overview of chemical and biological synthesis of vanillin flavour	Journal of Shanghai Institute of Technology (Natural science), Vol. 17(2), pp. 102-111	2017
3.	Zhang X, <b>Dhawan G</b> , Muthengi A, Liu S, Wang W, Legris M & Zhang W	One-potandcatalyst-freesynthesisofpyrroloquinolinedionesandquinolinedicarboxylates	Green Chemistry, Vol. 19(16), pp. 3851-3855	2017
4.	<b>Jetly S</b> , Verma N, Naidu K, Faiq MA, Tulika S & Saluja D	Alterations in the reactive oxygen species in peripheral blood of chronic myeloid leukemia patients from Northern India	Journal of Clinical and Diagnostic Research, Vol. 11(8), pp. XCO1- XO5	2017
BOTA	NY			
5.	Gupta CK & Chowdhuri A	Virtual Learning Environment (VLE)- A platform to enhance quality education	International Journal on Education Growth and Research, Vol. 2(1)	2017
6.	Chowdhuri A & Gupta CK	Assessment of Particulate matter (PM) concentrations at a typical construction site in Bangalore, India	International Research Journal of Environmental Sciences, Vol. 6(2), 14-18	2017
7.	Yasheshwar, Umar S, Sharma MP, Khan W, Ahmad S	Variation in ornamental traits, physiological responses of <i>Tagetes erecta</i> L. and <i>T. patula</i> L. in relation to antioxidant and metabolic profile under deficit irrigation strategies	Scientia Horticulturae Vol. 214. Pp. 200- 208	2017
Chem	istry			
8.	Sharma SV & Hooda S	An analysis upon various strategies for redesign and direct evolution of enzyme engineering	Journal of Advances in Science and Technology, Vol. 13, pp. 144-150	2017
9.	Khanna P, Khanna L, Thomas SJ, Asiri AM & Panda SS	Microwave assisted synthesis of spiro heterocyclic systems: A review	Current organic chemistry, Vol. 22(1), pp. 67-84	2018
10.	Kumar R, <b>Arya DK</b> , Singh N & Vats HK	Comparative study of removal of Cu and Pb from aqueous solution by using modified rice	International Journal of Chemistry and Applications, Vol.	2017

Completion Report				
		husk ask as an adsorbent	9(1), pp. 15-21	
11.	Kumar R, <b>Arya DK,</b> Singh N & Vats HK	Developing a low cost activated carbon from agricultural waste for the removal of heavy metal from contaminated waste	International Journal of Applied Chemistry, Vol. 13(3), pp. 453-460	2017
Comp	uter Science			
12.	Chaudhary U, <b>Samal CK &amp;</b> Kumar V	Online signature verification: A review	IOSR Journal of Computer Engineering, Vol. 19(2), pp. 33-37	2017
13.	Choudhury RK & Samal CK	Comparative analysis on path planning algorithm's on mobile robot in image processing	International Journal of Advance Engineering and Research Development, Vol. 4(8), pp. 30-37	2017
14.	Choudhury RK & Samal CK	Impact of DDA optimization on mobile robot path planning for mixed image in image processing	International Journal of Advanced Research in Computer Science, Vol. 8(8), pp. 474- 480	2017
15.	Choudhury RK & Samal CK	Target assignment in robotics and its distance optimality using DDA optimization in image processing	International Journal of Science and Research Methodology, Vol. 7(3), pp. 30-40	2017
16.	Choudhury RK, Kumar S & Samal CK	Mobile robot path planning approach: A review	International Journal of Advanced Scientific Research and Management, Vol. 2(8), pp. 132- 139	2017
17.	Samal CK & Choudhury RK	Architecture based on environmental monitoring system using zigbee wireless sensor networks	International Journal of Advanced Scientific Research and Management, Vol. 2(8), pp. 123- 129	2017
18.	Samal CK	A review on multiple channel allocation in mobile ad hoc networks	International Journal of Advance Engineering and Research Development, Vol. 4(7), pp. 441-447	2017
19.	Samal CK, Choudhury RK, Kumar V & Mishra S	Low power consumption in zigbee wireless networks: A, review	International Journal of Advance Engineering and Research Development, Vol. 4(12), pp. 879-886	2017

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20.	Samal CK & Choudhury RK	Bandwidth efficient broadcast protocols in manets: A review	International Journal of Computer Sciences and Engineering, Vol. 6(1), pp. 49-54	2018
Electr	onics	a 111		
21.	Harıwal VR, Malık HK, <b>Negi</b> <b>A</b> & Kandasami A	Controlling room temperature ferromagnetism and band gap in ZnO nanostructured thin films by varying angle of implantation	Royal Society of Chemistry Advances, Vol. 8(12), pp. 6278-6287	2018
Physic	cs			
22.	Gupta CK & Chowdhuri A	Virtual Learning Environment (VLE)- A platform to enhance quality education	International Journal on Education Growth and Research, Vol. 2(1)	2017
23.	Joshi YC, Joshi MC, Chopra V, Joshi RK, Sharma RK & Kumar V	Sportsmen's energy package <i>Cordyceps sinensis</i> : Medicinal importance and responsible phytochemical constituents	American Journal ofEssentialOils andNaturalProducts,Vol. 5(2), pp. 37-51	2017
Zoolo	gy			
24.	<b>Kumar S,</b> Warikoo R, Mishra M, Samal RR, Rana S, Panmei K, Dagar VS & Sharma A	Impact of <i>Ocimum basilicum</i> leaf essential oil on the survival and behaviour of an Indian strain of Dengue Vector, <i>Aedes aegypti</i> <i>L</i> .	Vector Biology Journal, Vol. 2, pp. 2	2017
25.	Sharma A, <b>Kumar S &amp;</b> Tripathi P	Assessment of <i>Achyranthes</i> <i>aspera</i> induced toxicity and molecular analysis of RAPD- PCR profiles of larval genomic DNA of <i>Aedes aegypti L</i> .	Journal of Parasitic Diseases, Vol. 41(4), pp. 1066-1073	2017
26.	Shukla RK, <b>Kumar S &amp;</b> Tripathi P	<i>Pseudomonas aeruginosa:</i> Isolation, characterization and evaluation of larvicidal efficacy against <i>Aedes aegypti</i> L.	European Journal of Biomedical and Pharmaceutical Sciences, Vol. 4(9), pp. 660-669	2017
27.	Shrankhla & <b>Kumar S</b>	Larvicidal activities of petroleum ether extracts of different fruit peel wastes against an Indian strain of filarial vector, <i>Culex quinquefasciatus</i> Say (Diptera: Culicidae)	European Journal of Biomedical and Pharmaceutical Sciences, Vol. 5(2), pp. 1074-1078	2018
28.	Sharma A, <b>Kumar S</b> & Tripathi P	A facile and rapid method for green synthesis of <i>Achyranthes</i> <i>aspera</i> stem extract-mediated silvernanocomposites with cidal potential against <i>Aedes aegypti</i> L.	Saudi Journal of Biological Sciences (Accepted)	2020
29.	Das P, Kumar P, Kumar M, Solanki R & <b>Kapur MK</b>	Bioprospecting xylanase enzymes from diverse ecological habitats	International Research Journal of Natural and Applied Sciences, Vol. 4, pp.	2017

			328-362	
30.	Das P, Kumar P, Kumar M, Solanki R & <b>Kapur MK</b>	Purification and molecular characterization of chitinases from soil actinomycetes	African Journal of Microbiology Research, Vol. 11(27), pp. 1086- 1102	2017
31.	Gupta R, Abraham JS, Sripoorna S, <b>Toteja R,</b> <b>Makhija S</b> & El-Serehy HA	TaxonomicandmorphogeneticdescriptionofthefreshwaterciliateAponotohymenaisoaustralisn.sp.(Ciliophora;Oxytrichidae)isolatedfromSanjay lake,Delhi,India	Acta Protozoologica, Vol. 56(2), pp. 93- 107	2017
32.	Abraham JS, Sripoorna S, Choudhary A, <b>Toteja R,</b> Gupta R, <b>Makhija S &amp;</b> Warren A	Assessment of heavy metal toxicity in four species of freshwater ciliates (Spirotrichea; Ciliophora) from Delhi, India	Current Science, Vol. 113(11), pp. 2141-2150	2017
33.	<b>Toteja R, Makhija S,</b> Sripoorna S, Abraham JS & Gupta R	Influence of copper and cadmium toxicity on the activity of an antioxidant enzyme, superoxide dismutase in freshwater ciliates	Indian Journal of Experimental Biology, Vol. 55, pp. 694-701	2017
34.	Somasundaram S, Abraham JS, Maurya S, <b>Makhija S</b> , Gupta R & <b>Toteja R</b>	Cellular and molecular basis of heavy metal-induced stress in ciliates	Current Science, Vol. 114(9), pp. 1858-1865	2018
35.	Kaur M, Devi R, Ghosh T, Khan MM, Kumar P, Kar PA, <b>Sharma A,</b> Varshney A, Kumar V & Saxena S	Sld5 Ensures centrosomal resistance to congression forces by preserving centriolar satellites	Molecular and Cellular Biology, Vol. 38(2), pp. e00371-17	2018

## 2018-19

S. No.	. Authors names	Title of the paper	Journal details	Year
Biom	edical Sciences			
1.	<b>Bajpai U, Mehta AK,</b> Eniyan K, Sinha A, Ray A, Virdi S, Ahmad S, Shah A, Arora D, Marwaha D, Chauhan G, Saraswat P, Bathla P & Singh R	Isolation and characterization of bacteriophages from India, with lytic activity against Mycobacterium tuberculosis	Canadian Journal of Microbiology, Vol. 64, pp. 1-9	2018
2.	Eniyan K, Dharavath S, Vijayan R, <b>Bajpai U</b> & Gourinath S	StructureofUDP-N-acetylglucosamine-enolpyruvatereductase(MurB)fromMycobacterium tuberculosis	Biochemica et Biophysica Acta (BBA)- Protein and Proteomics, Vol. 1866(3), pp. 397- 406	2018
3.	Chugh H, Sood D, Chandra I, Tomar V, <b>Dhawan G</b> & Chandra R	Role of gold and silver nanoparticles in cancer nano- medicine	ArtificialCells,Nanomedicine,andBiotechnology(Taylor and FrancisPublishers,UK)DOI:10.1080/21691401.2	2018

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4.	Liu S, Yosief HO, Dai L, Huang H, <b>Dhawan G</b> , Zhang X, Muthengi AM, Roberts J, Buckley D, Wu L, Bradner J, Qi J & Zhang W	Structure guided design and development of potent and selective dual Bromodomain 4 (BRD4)/Polo- like Kinase 1 (PLK1) inhibitors	Journal of Medicinal Chemistry (American Chemical Society), 61, 7785- 7795	2018
5.	Muthengi A, Zhang X, Dhawan G, Zhang W, Corsini F & Zhang W	Sequential [3+2] cycloaddition and [5+n] annulation reactions for modular synthesis of dihydrobenzoxazines, tetrahydrobenzoxazepines and tetrahydrobenzoxazocines	Green Chemistry (RSC, London) 20, 3134-3139	2018
6.	Liu M, Zhang X, Huang X, <b>Dhawan G</b> , Evans J, Kaur M, Jasinski JP & Zhang W	Recyclable organocatalysts for one- pot asymmetric synthesis of Dihydrofuranone and Tetrahydropyranone Spirooxindoles	European Journal of Organic Chemistry, Vol. 1, pp. 150-155	2019
7.	Prasad P, <b>Singh N</b> , Das B, Raisuddin S, Dudeja M & Rastogi S	Cytokine induced expression of nitric oxide synthases in Chlamydia trachomatis-infected spontaneous aborters	Journal of Maternal- Fetal & Neonatal Medicine DOI: 10.1080/ 14767058.2018.1465 914	2018
Botan	У			
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8.	Gupta CK, Singh JP, Chopra P, Raj VB, Chowdhuri A	Gauging the nature and magnitude of Particulate Matter (PM) concentrations in Bengaluru, the IT capital of India	DUJournalofUndergraduateResearchandInnovation,Vol.3(2), pp. 71-81	2018
8. Chem	Gupta CK, Singh JP, Chopra P, Raj VB, Chowdhuri A	Gauging the nature and magnitude of Particulate Matter (PM) concentrations in Bengaluru, the IT capital of India	DUJournalofUndergraduateResearchandInnovation,Vol.3(2), pp. 71-81	2018
8. Chem 9.	Gupta CK, Singh JP, Chopra P, Raj VB, Chowdhuri A istry Khanna L, Khanna P & Jain SC	Gauging the nature and magnitude of Particulate Matter (PM) concentrations in Bengaluru, the IT capital of India A concise synthesis of 2-alkenyl-3- phenyl-4H-chromen-4-ones via novel C-C bond formation using sulfone as potential intermediate	DU Journal of Undergraduate Research and Innovation, Vol. 3(2), pp. 71-81 Indian Journal of Chemistry, Vol. 57B, pp. 945-954	2018
8. Chem 9. 10.	Gupta CK, Singh JP, Chopra P, Raj VB, Chowdhuri A istry Khanna L, Khanna P & Jain SC Panda SS, Girgis AS, Prakash A, Khanna L, Khanna P, Shalaby EM, Fawzy NG & Jain SC	Gauging the nature and magnitude of Particulate Matter (PM) concentrations in Bengaluru, the IT capital of India A concise synthesis of 2-alkenyl-3- phenyl-4H-chromen-4-ones via novel C-C bond formation using sulfone as potential intermediate Protective effects of <i>Aporosa</i> <i>octandra</i> bark extract against D- galactose induced cognitive impairment and oxidative stress in mice	DU Journal of Undergraduate Research and Innovation, Vol. 3(2), pp. 71-81 Indian Journal of Chemistry, Vol. 57B, pp. 945-954 Heliyon, Vol. 4, pp. e00951	2018 2018 2018
8. <u>Chem</u> 9. 10. 11.	GuptaCK,SinghJP,ChopraP,RajVB,Chowdhuri AistryKhannaL,KhannaP &Jain SCJain SCSPandaSS,GirgisAS,PrakashA,KhannaL,KhannaP,ShalabyEM,Fawzy NG & Jain SCLal S,Hooda S,Lal S,Hooda S,Kumar A,Kumar S,Singh A,Singh S,ChandraR,Kumar V,UberoiV,GambhirG,Drashya	Gauging the nature and magnitude of Particulate Matter (PM) concentrations in Bengaluru, the IT capital of India A concise synthesis of 2-alkenyl-3- phenyl-4H-chromen-4-ones via novel C-C bond formation using sulfone as potential intermediate Protective effects of <i>Aporosa</i> <i>octandra</i> bark extract against D- galactose induced cognitive impairment and oxidative stress in mice Acrylonitrile copolymer based membrane sensor for selective detection of Pb2+ ions in aqueous medium	DU Journal of Undergraduate Research and Innovation, Vol. 3(2), pp. 71-81 Indian Journal of Chemistry, Vol. 57B, pp. 945-954 Heliyon, Vol. 4, pp. e00951 International Journal of Advanced Educational Research, Vol. 3(2), pp. 107-113	2018 2018 2018 2018
8. <u>Chem</u> 9. 10. 11. 12.	Gupta CK, Singh JP, Chopra P, Raj VB, Chowdhuri A istry Khanna L, Khanna P & Jain SC Panda SS, Girgis AS, Prakash A, Khanna L, Khanna P, Shalaby EM, Fawzy NG & Jain SC Lal S, Hooda S, Kumar A, Kumar S, Singh A, Singh S, Chandra R, Kumar V, Uberoi V, Gambhir G, Drashya Lal S, Kumar S, Hooda S & Kumar P.	Gauging the nature and magnitude of Particulate Matter (PM) concentrations in Bengaluru, the IT capital of India A concise synthesis of 2-alkenyl-3- phenyl-4H-chromen-4-ones via novel C-C bond formation using sulfone as potential intermediate Protective effects of <i>Aporosa</i> <i>octandra</i> bark extract against D- galactose induced cognitive impairment and oxidative stress in mice Acrylonitrile copolymer based membrane sensor for selective detection of Pb2+ ions in aqueous medium A highly selective sensor Cu2+ and Fe3+ ions in aqueous medium: Spectroscopic, computational and cell imaging studies	DU Journal of Undergraduate Research and Innovation, Vol. 3(2), pp. 71-81 Indian Journal of Chemistry, Vol. 57B, pp. 945-954 Heliyon, Vol. 4, pp. e00951 International Journal of Advanced Educational Research, Vol. 3(2), pp. 107-113 <i>Journal of</i> <i>Photochemistry and</i> <i>photobiology:</i> Chemistry, Vol. 364, pp. 811-818	2018 2018 2018 2018 2018

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	& Hooda S	Curcumin and 2,2'-Bipyridine Ligands: Synthesis, Characterization, Molecular Modeling and Their Preliminary Antimicrobial Investigation	Revue Roumaine de Chimie, Vol. 63(4), pp. 299-307.	
14.	Sharma SP & <b>Hooda S</b>	An Analysis on Recent Technological Developments in Green Chemistry: Biocatalytic Processes	Journal of AdvancesandScholarlyResearches in AlliedEducation15(11),262-275	2018
Comp	outer Science			
15.	Saxena R, <b>Kaur S &amp;</b> Bhatnagar V	Social centrality using network hierarchy and community structure	Data Mining and Knowledge Discovery, Vol. 32(5), pp. 1421- 1443	2018
Electr	onics			
16.	Chetna, Kumar S, <b>Garg A</b> , <b>Chowdhuri A</b> , Jain A, Kapoor A	Structural and optical properties of electrochemically deposited ZnO nanorods by using graphene oxide and ITO as substrate material: A comparative study	Materials Research Express 5 095024 doi.org/10.1088/205 3-1591/aad7a5	2018
17.	Kumar S, Garg A & Chowdhuri A	Comparison of water purification properties of Graphene Oxide (GO) Membranes with tuned interlayer spacings	Materials Research Express 6 015604, doi.org/10.1088/205 3-1591/aae416.	2018
18.	Kumari A, Abhijeet, Sharma A, Baliyan AK, Kiran & <b>Kaur R</b>	Gesture recognizing smart system	DUJournalofUndergraduateResearchandInnovation,Vol.3(2), pp 01-11	2018
Physi	cs			
19. 7	Gupta CK, Singh JP, Chopra P, Raj VB, Chowdhuri A	Gauging the nature and magnitude of Particulate Matter (PM) concentrations in Bengaluru, the IT capital of India	DUJournalofUndergraduateResearchandInnovation,Vol.3(2), pp. 71-81	2018
<b>Z0010</b>			T 1 C A 1' 1	2010
20.	Dagar VS & Kumar S	Emamectin Benzoate: Potential larvicide and antifeedant agent against cotton boll worm <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae)	and Natural Sciences, Vol. 10(2), pp. 564-571	2018
21.	<b>Kumar S</b> , Sharma A & Warikoo R	Potential of <i>Nardostachys</i> <i>jatamansi</i> extracts to manage Indian strain of <i>Aedes aegypti:</i> A novel approach for vector control	Vector Biology Journal, Vol. 3(1), pp. 1-5	2018
22.	Mishra M, Gupta KK & <b>Kumar S</b>	Growth regulatory and growth inhibitory effects of <i>Thevetia</i> <i>neriifolia</i> stem extracts on <i>Helicoverpa</i> armigera	ArchivesofPhytopathologyandPlantProtection,DOI:	2018

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Co	mpletion A	Repoi	rt

		(Lepidoptera: Noctuidae)	10.1080/03235408.2 018.1521324	
23.	Samal RR & Kumar S	Status of <i>Aedes aegypti</i> L. against different classes of insecticides in New Delhi, India to formulate mosquito control strategy in fields	Open Parasitology Journal, 6: 52-62	2018
24.	Shamsi TN, Parveen R, Ahmad A, Samal RR, <b>Kumar S</b> & Fatima S	Inhibition of gut proteases and development of dengue vector, <i>Aedes aegypti by Allium sativum</i> protease inhibitor	Acta Ecologica Sinica, Vol. 38(5), pp. 325-328	2018
25.	Sharma A, <b>Kumar S &amp;</b> Tripathi P	Effects of <i>Achyranthes aspera</i> extracts on the survival and midgut histo-architecture of <i>Aedes aegypti</i> L. early IV instars	Open Parasitology Journal, Vol. 6, pp. 41-51	2018
26.	Mishra M, Gupta KK & <b>Kumar, S</b>	Diminished activity of midgut enzymes in <i>Helicoverpa armigera</i> Hübner (Lepidoptera; Noctuidae) larvae induced by dietary stem extracts of <i>Thevetia neriifolia</i>	Journal of Lepidopterist's Society (Accepted)	2018
27.	Abraham JS, Somasundaram S, Maurya S, <b>Makhija S</b> , Gupta R & <b>Toteja R</b>	Techniques and tools for species identification in ciliates: A review	International Journal of Systematic and Evolutionary Microbiology, Vol. 69(4), pp. 877-894	2019
28.	Abraham JS, Sripoorna S, Dagar J, Jangra S, Kumar A, Yadav K, Singh S, Goyal A, Maurya S, <b>Gambhir G,</b> <b>Toteja R</b> , Gupta R, Singh DK, El- Serehy HA, Al- Misned FA, Al-Farraj SA, Al-Rasheid KA, Maodaa SA & <b>Makhija S</b>	Soil ciliates of the Indian Delhi Region: Their community characteristics with emphasis on their ecological implications as sensitive bio-indicators for soil quality	Saudi Journal of Biological Sciences, Vol. 26(6), pp. 1305- 1313	2019

## 2019-20

S. No.	Authors names	Title of the paper	Journal details	Year
Biome	edical Sciences			
1.	Rani J, Silla Y, Borah K, Ramachandran S & Bajpai, U	Repurposing of FDA-approved drugs to target MurB and MurE enzymes in Mycobacterium tuberculosis	Journal of Biomolecular Structure and Dynamics, pp. 1-12	2019
2.	Eniyan K, Rani J, Ramachandran S, Bhat R, Khan IA & Bajpai U.	Screening of Antitubercular Compound Library Identifies Inhibitors of Mur Enzymes in Mycobacterium tuberculosis	SLAS Discovery, pp. 1-9.	2019
3.	Sinha A, Eniyan K, Manohar P, Ramesh N & Bajpai U	Characterization and genome analysis of B1 sub-cluster mycobacteriophage PDRPxv	Virus Research, Vol. 279, pp. 197884	2020
4.	Singh I, Priyam A, Jha D, Dhawan G, Gautam HK & Kumar P	Polydopamine –aminoglycoside nanoconjugates: Synthesis, characterization, antimicrobial evaluation and cytocompatibility	Materials Science and Engineering C, Vol. 107, pp. 110284	2019
5.	Chaudhary R & Kumar V	Sightings of Jamides bochus (Stoll, [1782]) and Prosotas nora (C. Felder, 1860) (Insecta: Lepidoptera: Lycaenidae) from urbanized parts of New Delhi, India	Bionotes, Vol. 21, pp. 3-5	2019
6.	Shahnaj S, Chowhan RK, Potshangbam AM, Kakchingtabam P, Singh KH, Singh LR, Nongdam P, Fisher A. B. and Rahaman, H	Hyperoxidation of Peroxiredoxin 6 Induces Alteration from Dimeric to Oligomeric State	Antioxidants, Vol. 8(33)	2019
7.	Shahnaj S, Potshangbam AM, Chowhan RK, Parray ZA, Kakchingtabam P, Kumari A, Islam A, Khan A, Singh LR & Rahaman H	The anti-oxidant enzyme, Prdx6 might have cis-acting regulatory sequence(s)	International Journal of Biological Macromolecules, Vol. 149, pp. 1139– 1150.	2020
8.	Shahnaj S, Potshangbam AM, Chowhan RK, Parray ZA, Kakchingtabam P, Kumari A, Islam A, Khan A, Singh LR & Rahaman H	The anti-oxidant enzyme, Prdx6 might have cis-acting regulatory sequence(s)	International Journal of Biological Macromolecules, Vol. 149, pp. 1139– 1150.	2020
9.	Prasad P, Singh N, Das B, Raisuddin S, Dudeja M & Rastogi S	Cytokine-induced expression of nitric oxide synthases in Chlamydia trachomatis-infected spontaneous aborters	Journal of Maternal- Fetal and Neonatal Medicine, 32(21), 3511-3519	2019
10.	Singh N, Prasad P, Das B & Rastogi S	Does tumour necrosis factor alpha- induced cyclooxygenase-2 expression lead to spontaneous abortion in Chlamydia trachomatis- infected women	Microbial Pathogenesis (Accepted)	2019
11.	Pradhan P, Srivastava A, Singh J, Biswas B, Saini A.	Prion protein transcription is auto- regulated through dynamic	Biochimica et Biophysica Acta	2020

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D	Siddique I, Kumar S & Kundu, B	interactions with G-quadruplex motifs in its own promoter	(BBA)-Gene Regulatory Mechanisms, pp. 194479	
Botan	ly			
12	Mangla Y, Das K, Bali S, Ambreen H, Raina SN, Tandon, R & Goel S	Occurrence of subdioecy and scarcity of gender-specific markers reveal an ongoing transition to dioecy in Himalayan seabuckthorn (Hippophae rhamnoides ssp. turkestanica)	Heredity, Vol. 122, pp. 120-132	2019
Chem	istry			1
13.	Seema Gupta, Indu Singh, Ashwani K Sharma, Pradeep Kumar	Ultrashort Peptide Self-Assembly: Front-Runners to Transport Drug and Gene Cargos.	Front. Bioeng. Biotechnol., 29 May 2020   <u>https://doi.org/10.3</u> <u>389/fbioe.2020.0050</u> <u>4</u>	2020
14	Bhawna Sharma, Indu Singh, Somvir Bajar, Seema Gupta, Hemant Gautam & Pradeep Kumar	Biogenic Silver Nanoparticles: Evaluation of Their Biological and Catalytic Potential	Indian Journal of Microbiology, DOI 10.1007/s12088- 020-00889-0	2020
14.	Lal S, Prakash K, Hooda S, Kumar V & Kumar P	Ibuprofen based chemosensor for efficient binding and sensing of Cu2+ ion in aqueous medium	Journal of Molecular Structure, Vol. 1199, pp. 1-8	2020
15.	Lal S, Prakash K, Khera N, Drashya, Singh S, Singh A, Hooda S & Chandra R	Curcumin based supramolecular ensemble for optical detection of Cu 2+ and Hg 2+ ions	Journal of Molecular Structure, Vol. 1211, pp. 128091	2020
16.	Lal S, Prakash K, Khera N, Hooda S	CCDC 1997225	Experimental Crystal Structure Determination, DOI: 10.5517/ccdc.c sd.cc2518m4	2020
	Gautam D, Lal S & Hooda S	Adsorption of Rhodamine 6G Dye on Binary System of Nanoarchitectonics Composite Magnetic Graphene Oxide Material	Journal of Nanoscience and Nanotechnology, Vol. 20, pp. 1-7	2019
17	Singhal S, Khanna P & Khanna L.	Synthesis, DFT studies, molecular docking, antimicrobial screening and UV fluorescence studies on ct- DNA for novel Schiff bases of 2- (1-aminobenzyl) benzimidazole	Heliyon, Vol. 5(10), pp. e02596.	2019
18	Singhal S, Khanna P, Panda SS & Khanna L	Recent Trends in the Synthesis of Benzimidazoles from o- Phenylenediamine via Nanoparticles and Green Strategies Using Transition Metal Catalysts	Journal of Heterocyclic Chemistry, Vol. 56(10), pp. 2702- 2729.	2019
Comp	outer Science			0010
-19	Saxena R, Kaur S & Bhatnagar V	Identifying similar networks using structural hierarchy	Physica A: Statistical	2019

			Mechanics and Its Applications 10.1016/j.physa.201 9.04.265	
20	Mishra S, Samal CK, Yadav N & Choudhury RK	The impact of various digitized social networking media through text, images and videos on language usage	International Journal of Scientific and Technology Research, Vol. 8(10)	2019
Electr	onics			
21.	Kumar S, Garg A & Chowdhuri A	Comparison of water purification properties of Graphene Oxide (GO) membranes with tuned interlayer spacings	Materials Research Express, Vol. 6, pp. 015604	2019
22	Kumar S, Garg A & Chowdhuri A	Sonication effect on graphene oxide (GO) membranes for water purification applications.	Materials Research Express, Vol. 6, pp. 085620.	2019
23	Chetna, Kumar S, Garg A, Chowdhuri A, Jain A & Kapoor A	A novel method of electrochemically growing ZnO nanorods on grapheme oxide as substrate for gas sensing applications	Materials Research Express, Vol. 6, pp. 075039	2019
24	Chugh N, Kumar M, Bhattacharya M & Gupta RS	Analysis of Al0.15Ga0.85N/GaN/Al0.15Ga0.8 5N DH-HEMT for RF and Microwave Frequency Applications	Semiconductors, 53(13), 1784–1791	2019
25	Chugh N, Kumar M, Bhattacharya M & Gupta RS	Sheet carrier concentration and current–voltage analysis of Al0.15Ga0.85N/GaN/ Al0.15Ga0.85N double heterostructure hemt incorporating the effect of traps	Microsystem Technologies. <u>https://doi.org/10.10</u> <u>07/s00542-019-</u> <u>04322-5</u>	2019
Physic	CS	· · · · · · · · · · · · · · · · · · ·		
	Rakesh Kumar Sonker, Gaurav Hitkari, S.R. Sabhajeet, S. Sikarwar, Sandhya Singh	Green synthesis of TiO2 nanosheet by chemical method for the removal of Rhodamin B from industrial waste, 18. Maqsood R. Waikar, Pooja M. Raste, Rakesh Kumar Sonker, Vinay Gupta, Monika Tomar, Mahendra D. Shirsat, Rajendra G. Sonkawade, Enhancement in NH3 sensing performance of ZnO thin-film via gamma-irradiation, Journal of Alloys and Compounds, 830 (2020) 154641.	Materials Science and Engineering: B, 258 (2020) 114577.	2020
	Maqsood R Waikar, Rakesh Kumar Sonker, Sakshi Gupta, Shiv Kumar Chakarvarti, Rajendra G. Sonkawade	Post-γ-irradiation effects on structural, optical and morphological properties of chemical vapour deposited MWCNTs	Materials Science in Semiconductor Processing, 110 104975.	2020
	Shruti Singh, Pramod K	Encompassing environment	Materials Today:	2020
	<i>U</i> ,		2	

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	Singh, Jitender Paul	synthesis, characterization and	Proceedings,,	
	Sharma, Sunanda Kakroo,	photovoltaic utilization of cadmium	https://doi.org/10.10	
	Rakesh Kumar Sonker,	sulphide quantum dots,	<u>16/j.matpr.2020.04.7</u>	
	Zishan H Khan Balaah Kuman Sankan D C	Synthesis of CdS non-montials by	<u>76</u> Motoriala Chamistra	2020
	Vaday Vinay Gunta	sol-gel method as low temperature	and Physics 239	2020
	Monika Tomar	NO2 sensor.	121975	
26	Satya Prakash Yadav, K.	Ferroelectric Liquid Crystal	Liquid Crystal	2019
	Yadav, J. Lahiri & A.S.	Nanocomposites: Recent	Reviews 6, 143.	
	Parmar,	Development and Future		
		Perspective,		
27	R.P. Sharma, Narender	Transient setting of relativistic	Laser and particle	
	Kumar, R. K. Singh, R.	ponderomotive non-linearity and	beams 37, 259	
	Uma and P. K. Gupta,	filamentation of ultra-short laser		
28	Rakesh Kumar Sonker R	Theoretical and experimental	Proceedings of the	
20	Shastri, B.C. Yaday.	investigation on structural stability.	Jangieon	
		electronic and vibrational properties	Mathematical	
		of polyaniline (PANI)	Society, 22, 129-139	
29	Rakesh Kumar Sonker, B.C.	Fabrication and characterization of	Journal of	
	Yadav, Vinay Gupta,	ZnO-TiO2-PANI (ZTP)	Hazardous	
	Monika Tomar,	micro/nanoballs for the detection of	Materials, 370	
20		flammable and toxic gases,	(2019) 126-137	
30	1. Vimal, K. Agrahari, Pakash Kumar Sankar, P	investigation of thermodynamical,	Journal of Molecular	
	Manohar	parameters of nematic liquid crystal	111241	
	Wanonar,	doped with polyaniline and silver	111271	
		nanoparticles		
31	S. Sikarwar, B.C. Yadav,	Dzhardimalieva, J.K. Rajput,	Applied Surface	
	Rakesh Kumar Sonker, G.I.	Synthesis and characterization of	Science, 479 326-33	
		highly porous hexagonal shaped		
		CeO2-Gd2O3-CoO nanocomposite		
		and its opto-electronic humidity		
32	Pawan Kumar P	Entrainment of aperiodic and	An Interdisciplinary	
	Parmananda, Dinesh Kumar	periodic oscillations in the Mercury	Journal of Nonlinear	
	Verma, Tanu Singla, Iram	Beating Heart system using	Science, 29, 053112	
	de Nicolás, J Escalona, M	external periodic forcing		
	Rivera, Chaos			
33	Tanu Singla, Dinesh Kumar	Dynamics of a vertically vibrating	AIP Advances, 9,	
	Verma, Josue Flores Tovar,	mercury drop,	045204	
	Vázquez Farook Bashir			
	Yousif, M Rivera			
Zoolo	gy			
34	Kumar S	Influence of open educational	Nature Human	2019
		resources on educational practices	Behaviour, Vol. 3,	
		in the Global South	pp. 540-541	
35	Mishra M, Gupta KK &	Diminished activity of larval	The Journal of the	2019
	Kumar S	midgut transaminases and	Lepidopterists'	
		phosphatases in nencoverpa	500101y, 75(1), 25-	

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		armigera Hübner (Lepidoptera) induced by dietary stem extracts of Thevetia neriifolia.	33.		
36	Sharma A, Tripathi P & Kumar S	One-pot synthesis of silver nanocomposites from Achyranthes aspera: An eco-friendly larvicide against Aedes aegypti L.	Asian Pacific Journal of Tropical Biomedicine, Vol. 10(2), pp. 54-64.	2020	
37	Aggarwal D, Sharma A & Kumar S	Optimizing synthesis of citrus limetta peel silver nanocomposites possessing larvicidal potential against dengue vector, Aedes aegypti L.	Advances in Zoology and Botany, Vol. 8(1), pp. 12-19	2020	
38	Kumar M, Kumar P, Das P & Kapur MK	Draft genome of Streptomyces sp. strain 130 and functional analysis of extracellular enzyme producing genes	Molecular Biology Reports. <u>https://doi.org/10.10</u> <u>07/s11033-</u> 019- 04960-y	2019	
39	Kumar P, Kundu A, Kumar M, Solanki R & Kapur MK	Exploitation of potential bioactive compounds from two soil derived actinomycetes, Streptomyces sp. strain 196 and RI.24	Microbiological Research 229. https:// doi.org/10.1016/j.mi cres.2019.126312	2019	
40	Somasundaram S, Abraham JS, Maurya S, Toteja R, Gupta R & Makhija S	Expression and molecular characterization of stress responsive genes (hsp70 and Mn-sod) and evaluation of antioxidant enzymes (CAT and GPx) in heavy metal exposed freshwater ciliate, Tetmemena sp.	Molecular Biology Reports, Vol. 46, pp. 4921-4931.	2019	
41	Kamra K, Kaur H, Na S, Abraham JS, Somasundaram S, Makhija S, Toteja R, Warren A & Gupta R	Symposium Report: International Symposium on Ciliate Biology, India Habitat Centre, New Delhi, India, 04–06 April 2018	Journal of Eukaryotic Microbiology, Vol. 67(2), pp. 296-299	2020	
42	Gupta R, Abraham JS, Sripoorna S, Maurya S, Toteja R, Makhija S, Al- Misned FA & El-Serehy HA	Description of a new species of Tetmemena (Ciliophora, Oxytrichidae) using classical and molecular markers	Journal of King Saud University – Science (In Press)	2020	



# Publications (Scopus indexed) /patents

## 2017-18

Faculty		Details
(Department)		
Dr Urmi Bapai (Department of Biomedical Science)	a.	Attended the symposium "Accelerating Biology 2018: Digitizing Life" held during January 9-11, 2018 organized by Centre for Development of Advanced Computing (CDAC), Pune at IISER Pune.
Dr Gagan Dhawan (Department of Biomedical Science)	a.	11th Symposium on Frontiers in Biomedical Research (FBR- 2018) - Challenges in Human Health: Prevention, Diagnosis and Cure, February 19-21, 2018, Conference Centre, University of Delhi. International Symposia on Fluorous Technologies (iSOFT Boston 2017), August 09-11, 2017, Tufts University, Boston, USA.
	b.	Educators, co-hosted by New England Scientists and Teachers for Sustainability (NESTS) and University of Massachusetts Boston, in conjunction with the US EPA and participation of Pfizer, August 11, 2017.
Dr Sunita Jetly (Department of Biomedical Science)	a.	Third workshop on trans-disciplinary areas of research and Teaching by Shanti Swaroop Bhatnagar Awardees (September 15-16, 2017), Deen Dayal Upadhyaya College, University of Delhi.
	b.	Workshop on Catalyzing Cultural Shift in Youth Entrepreneurship, November 09, 2017, organized by BIRAC and Miranda House (D S Kothari Centre for Research and Innovation in Science Education).
Dr Abhishek Kumar Mehta (Department of Biomedical Science)	a.	Attended a FDP on 'Data Science and Big Data Analysis' on November 02-December 01, 2017 in HMR Institute of Technology & Management, Hamidpur (Delhi) organized by ICT Academy.
Dr Namita Singh (Department of Biomedical sciences)	a.	Participated in one week Faculty Development Program on "Data Science And Big Data Analytics" conducted by ICT Academy from November 27 - December 01, 2017, held at HMR Institute of Technology and Management, New Delhi.
Dr Anita Narang (Department of Botany)	a.	Attended a Workshop on 'Gardening: Cultivate Learning and Living' organized by SGTB Khalsa College on September 20, 2017
Dr Rashmi Sharma (Department of Botany)	a.	Attended eleven day long workshop on bioinformatics and computational biology organised by Supercomputing facility for bioinformatics and computational Biology, IIT Delhi from August 20-31, 2017.
	D.	Autonated a four day long level-1 workshop on KDF I based

	c.	teachers training program organised by IISER Pune at Kochi, Kerala from October 11-14, 2017. Attended a four day long level-II workshop on RBPT based teachers training program organised by IISER Pune at Delhi from December 06-08, 2017.
Dr Yash Mangla (Department of Botany)	a.	National Conference on Challenges and Strategies to Improve Crop Productivity in Changing Environment, organized by Department of Botany, Zakir Hussain Delhi College, Delhi on January 12, 2018.
Dr Vineet Kumar Singh (Department of Botany)	a. b. c.	Attended National Conference on Challenges and Strategies to Improve Crop Productivity in Changing Environment, organized by Department of Botany, Zakir Hussain Delhi College, Delhi on January 12, 2018. Participated in National Seminar on Identifying and Avoiding Publishing in Predatory Journals: A Lesson for Researchers held at Department of Botany, University of Delhi on March 18, 2017. Attended Workshop and Training Programme on "R Language" held at Department of Botany from November 27-29, 2017.
Dr Sunita Hooda (Department of Chemistry)	a.	Attended a one day workshop "The ACS on Campus" event at the University of Delhi, February 05, 2018 in the Sir Shankar Lal Concert Hall.
Dr Seema Gupta (Department of Chemistry)	a.	Discussion Forum on 'Sustainable Development and Challenges' on January 25, 2017 at TERI University.
Dr Pooja Bhagat (Department of Chemistry)	a.	Attended a workshop on 'Anxiety at Workplace' organized by ANDC on August 25, 2017.
Dr Pankaj Khanna (Department of Chemistry)	a. b.	The pedagogy workshop (RBPT Level 1) for undergraduate science teachers organised by IISER Pune at Indian Institute of Technology, Gandhinagar, Gujarat, December 10-13, 2017). A one day OpenCon 2018 Workshop held at Acharya Narendra Dev College on February 3, 2018.
Dr Dinesh Kumar Arya (Department of Chemistry)	a.	International Seminar on Gender Sensitization, Equality and Women Empowernment: Continuity & Change, January 29, 2018.
Dr Anju Agrawal (Department of	a.	Attended FDP on Embedded System Design Using AVR and Digital System Design Using Programmable Logic Devices at Keshav Mahavidyalaya, November 01-02, 2017

Electronics)	
Dr Amit Garg (Department of Electronics)	<ul> <li>a. Attended two day workshop on e-procurement organized by Bhaskaracharya College of Applied Sciences, University of Delhi on 07-08 November, 2017.</li> <li>b. Attended ICT academy Co-ordinator Meet -2017 at The Park Hotel, 11th January 2018.</li> </ul>
Dr Ravneet Kaur Department of (Electronics)	<ul> <li>Attended Faculty Development Programme at Bhaskaracharya College of Applied Sciences, University of Delhi, December 16- 22, 2017.</li> </ul>
Dr Sarita Kumar (Department of Zoology)	<ul> <li>a. Attended One-day workshop on 'Acquire Skills-Mosquito Kills', organized by Department of Zoology, Hindu College, University of Delhi, 18th August 2017</li> <li>b. Attended International Conference - "Biochemistry and Molecular Biology: From Niche to Nation"; 44th Philippine Society for Biochemistry and Molecular Biology Annual Convention, Tagaytay City, Philippines, November 27-30, 2017</li> <li>c. Attended Guest Lecture by Padmashree Prof. P. K. Rajagopalan "Entomology, Ecology, Ethology and Epidemiology in Disease Investigation", October 16, 2017, Central Seminar Hall, NCDC, New Delhi</li> </ul>
Dr Monisha Khanna Kapur (Department of Zoology)	<ul> <li>a. Attended a seminar on 'IPR and Social Insects' held on September 05, 2017 at Acharya Narendra Dev College under the aegis of DBT Star College Scheme.</li> <li>b. Attended International Conference on 'Recent Trends" in Biotechnology and Biodiversity Conservation, Malaysia, September 26-29, 2017.</li> <li>c. Participated in INSCR International Conference (IIC-2017) on "Role of Microbe-Plant-Animal Interaction in Human Health" on Sep 26-28, 2017 at University of Delhi.</li> </ul>
Dr Seema Makhija and Dr Anjali Saxena (Department of Zoology)	<ul> <li>Attended INSCR International Conference (IIC-2017) on "Role of Microbe-Plant-Animal Interaction in Human Health" on Sep 26-28, 2017 at University of Delhi.</li> </ul>
Dr Ravi Toteja (Department of Zoology)	<ul> <li>Attended and organized and attended a one day OpenCon 2018 Workshop held at Acharya Narendra Dev College on February 3, 2018</li> </ul>

2018-19

Dr. Rashmi Sharma (Botany)a. FDP on University Functioning and Blended Learning a GuruBotany)a. FDP on University Functioning and Blended Learning a GuruBev Teaching Learning Centre of MHRD, Govt. of Indi under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) SGTB Khalsa Colleg University of Delhi from December 08-20, 2018Dr. Seema Gupta (Chemistry)a. FDP on Shifted Goalposts in New NAAC: A Challenge for Today's IQAC by Sri Guru Nanak Dev Khalsa College, University of Delhi on September 10, 2018Dr. Dinesh Kumar Arya (Chemistry)a. 6th RC in Basic Sciences (Interdisciplinary); UGC-HRDC, Jamia Millia Islamia; September 26-October 17, 2018.b. FDP on e-Learning, Pedagogy, and ICT tools in Higher Education at Guru Angad Dev Teaching Learning Centre of MHRD, SGTB Khalsa College, University of Delhi from November 26-	ended Learning at Angad RD, Govt. of India (ational Mission on Khalsa College, 2018 Challenge for sa College, UGC-HRDC, Jamia 18. in Higher Education	<ul> <li>Dr. Rashmi</li> <li>a. FDP on University Functioning and Blended Learning at Guru</li> <li>(Botany)</li> <li>a. FDP on University Functioning and Blended Learning at Guru</li> <li>Dev Teaching Learning Centre of MHRD, Govt. of India under Pandit Madan Mohan Malaviya National Mission on Teachers</li> <li>and Teaching (PMMMNMTT) SGTB Khalsa College, University of Delhi from December 08-20, 2018</li> <li>Dr. Seema</li> <li>a. FDP on Shifted Goalposts in New NAAC: A Challenge for Today's IQAC by Sri Guru Nanak Dev Khalsa College, University of Delhi on September 10, 2018</li> <li>a. 6th RC in Basic Sciences (Interdisciplinary); UGC-HRDC, Jamia Millia Islamia; September 26-October 17, 2018.</li> <li>b. FDP on e-Learning, Pedagogy, and ICT tools in Higher Education</li> </ul>
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Acharya Narendra Dev College

	b. 6th RC in Basic Sciences (Interdisciplinary); UGC-HRDC, Jamia		
	Millia Islamia; September 26-October 17, 2018.		
Mr Ravinder	b. Two-week Faculty Development Programme on 'Recent		
Sagar	advances in research methodology'by Pandit Madan Mohan		
	Malaviya National Mission on Teachers and Teaching, Ministry		
	of Human Resource Development (MHRD) by Teaching		
	Learning Centre, Ramanujan College, University of Delhi, New		
	Delhi from January 17 -28, 2020		

2019-20	
Faculty	Details
(Department)	
Dr Urmi	Two-day Workshop towards finalization of Teaching Learning Resources
Bajpai	for Life-science Teachers, on January 16-17, 2020
(Biomedical	
Science)	
Dr Sunita Jetly	Five-Day workshop at NCERT for 'Content Development' on January 12-
(Biomedical	16, 2020
Science)	
Dr Gagan	a. Workshop on Noise Pollution held at Delhi Secretariat on April 16,
Dhawan	2019
(Biomedical	b. ASEAN-INDIA Training workshop-2019 on 'Emerging
Science)	Technologies for Young Biotech Professionals from ASEAN
	Countries' at CSIR-IGIB, New Delhi on September 20-28, 2019
	c. 4 <sup>th</sup> GSLEP Steering Committee Meeting, held at Vigyan Bhawan,
	New Delhi on October 23-24, 2019
Dr Sunita Jetly	Five-day workshop entitled Empowering Teachers: Current Technology
(Biomedical	Based Educational Content Creation' using open source and free software
Science)	scheduled by, Acharya Narendra Dev College, under IQAC on December
Dr Snaranjit	2-6, 2019
Kaur (Computer	
(Computer Science)	
Dr Rayneet	
Kaur	
(Electronics)	
Dr Seema	
Makhija	
Dr Monica	
Misra	
(Zoology)	
Dr Sumit	Faculty workshop on 'DNA Barcoding and Metagenomics' organized by
Sahni	Department of Botany, Kirori Mal College under DBT star scheme on
(Botany)	September 19-20, 2019
Dr Pooja	Workshop to Vet Enriched Scripts for NCERT MOOCs on SWAYAM
Bhagat	organized by CIET-NCERT, New Delhi from December 30, 2019- January
(Chemistry)	3, 2020
Dr Pankaj	Workshops on 'Development of Guidelines for Mentoring of Schools by
Khanna	Higher Educational Institutions (HEIs) under Rashtriya Avishkar Abhiyan
(Chemistry)	(RAA)' organised by DESM, NCERT, New Delhi on March 18-20.2019

	and March 25-28, 2019 Online Refresher Course in Chemistry for Higher Education Faculty with an 'A' Grade by Annual Refresher Programme in Teaching (ARPIT), Ministry of Human Resourse Development (MHRD from Nov 2018-Feb 2019			
Dr Preeti Marwaha and Dr Harita Ahuja (Computer Science)	One Day Training Workshop on 'e- Filing of ITR -1' conducted by Internal Quality Assurance Cell held at Acharya Narendra Dev College on July 29, 2019 Two-week Faculty Development Programme on 'Recent advances in research methodology' by Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development (MHRD) by Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi from January 17 -28, 2020			
Dr Chandra Kanta Samal (Computer Science)	a. Workshop on 'MOOC'S, e-Content Development and Open Educational Resources' at HRD Center, Jawaharlal Nehru University on March 18-23, 2019			
Dr Ranjeet Singh (Physics)	Refresher Course on 'Indian Education System and Skill Development' by CPDHE from January 03-16, 2020			
Arijit Chowdhri, , V.Bhasker Raj & Rakesh Sonker	Trained on instruments in December 2019			
Mr Pawan Kumar (Physics)	<ul> <li>Refresher Course on 'Indian Education System and Skill Development' by CPDHE from January 03-16, 2020</li> </ul>			
Dr Sarita Kumar (Zoology)	<ul> <li>a. Workshop on 'Online Course in Teaching of Science at Upper Primary Stage' to design summative assessment and question bank; NCERT on July 22-26, 2019</li> <li>b. National Level 'CUBE STEM Workshop – Context toCurriculum'; HBCSE, TIFR, Mumbai on August 16-18, 2019</li> <li>c. Workshop on 'Development of Scripts for the Modules of Training Packages in Biology for Teachers Teaching at Higher Secondary Stage for Dissemination in MOOC Format'; NCERT on August 26- 30, 2019 and December 31, 2019 – January 03, 2020</li> <li>d. Workshop to develop course material of Course BZYCL-136 (Physiology and biochemistry: laboratory) for students of B.Sc. General (With Zoology), IGNOU on February 19-20, 2020</li> </ul>			

#### Acharya Narendra Dev College Completion Report Annexure IX

### Exhibitions/seminars/training courses/Projects /visits conducted

**One day interdisciplinary exhibit cum workshop "New Frontiers in Science"** was organized under the aegis of DBT Star College Scheme organized a One Day Interdisciplinary Exhibit Presentation on "New Frontiers in Science" in the College premises on October 22, 2019. About 50 posters were presented by .... Students. School students were also invited to attend the exhibition. The posters/exhibits were judged by three panels of judges with each panel having three subject experts. After critical review by the panel of judges, 3 projects were awarded 'best poster'. In addition to this, 6 other projects were also awarded 'consolation'.

### List of posters presented:

S. No.	Project Name	Mentors Name	Students Name	Course
1.	Use of Quadruplex Binding Ligands against Prion Diseases	Prashant Pradhan	Purva Abhijit Nayak	B.Sc. (H) Biomedical Science III Year
2.	Compartmental Model for Traffic Congestion	Dr. Sarita Agarwal	Pushkar Pandey Kunal Pant	B.Sc. (H) Mathematics II Year
3.	IsolationandCharacterizationofMycobacteriophagesfromSoil and in-vitroAnalysis ofPhagederivedRecombinantEndolysinsagainstMycobacteriumsmegmatis	Dr. Urmi Bajpai	Ritam Das	B.Sc. Life Sciences III Year
4.	Mathematical Sketch of Symmetric Group of Degree 5	Dr. Sarita Agarwal	Ajay Gupta Vipul Mishra Mahak Gupta	B.Sc. (H) Mathematics III Year
5.	RFID Based Attendance System	Dr. Anju Agrawal Mr. Dinesh Kumar	Aditya Kumar Gagan	B.Sc. (H) Electronics III Year
6.	IsolationandCharacterizationofMycobacteriophagesfromthe Soil	Dr. Urmi Bajpai	Garima Kalakoti	B.Sc. Life sciences III Year
7.	To Ascertain the most Efficient Working Hours of the Faculty in Acharya Narendra Dev College (ANDC) with in the Frame work of 9AM to 4PM.	Dr. Sunita Jetly Dr. Archna Pandey	Aatiruddin Khan Alisha Ansari Muskan Gupta	B.Sc. (H) Biomedical Science II Year
8.	Online Ranking of Educational Websites	Dr. Sharanjit Kaur	Prakhar Agrawal Shubhang Upadhyay	B.Sc.PhysicalSciencewithComputerScience IIIYearVertice
9.	RealTimePassengerCountingSystem(R.T.P.C.S)	Mr. Dinesh Kumar Dr. Anita Kumari	Yash Varshney Abhishek	B.Sc. (H) Electronics II Year
10.	Gesture Controlled Robot	Dr. Anju Agrawal Ms. Gauri Ghai	Phulender Pushkar Baranwal	B.Sc. (H) Electronics II Year

11.	Arduino based Solar tracking system	Dr. Udaibir Singh Mr. Dinesh Kumar	Prahlad Prajapat Ankita Shukla	B.Sc. (H) Electronics II Year
12.	Piezoelectric Energy Harvesting System	Dr. Ravneet Kaur Ms. Gauri Ghai	Avinash Kumar Lal Abhishek Bhadana	B.Sc. (H) Electronics III Year
13.	Magnetic Resonant Anti- Collision System	Dr. Ravneet Kaur Ms. Gauri Ghai	Reya Negi Lalit Shukla	B.Sc. (H) Physics III Year B.Sc. (H) Electronics II Year
14.	Data Transfer Through CPU Fan	Dr. Ravneet Kaur Ms. Gauri Ghai	Anurag Saxena	B.Sc. (H) Electronics II Year
15.	Creation of Online Repository of Ciliates of Delhi Region, India	Dr. Seema Makhija Dr. Ravi Toteja Dr. Preeti Marwaha Dr. Harita Ahuja	Rishabh Jain Shubham Khari Jaya Vishal Kumar	B.Sc. Physical Science with Computer science III Year B.Sc. Life Sciences II Year
16.	Android App Development (Attendence App)	Dr. Harita Ahuja Dr. Preeti Marwaha Ms. Gunjan Rani	Shivani Saxena Priyanka Rishabh jain	B.Sc. Physical Science with Computer science II Year
17.	A Computer Application for Editing Multiple Image Document	Ms. Vandita Grover	Prince Sharma Ankit Negi	B.Sc. (H) Electronics III Year
18.	Electrostimulation in Plants	Dr. Ravneet Kaur Ms. Gauri Ghai	Kunal Sharma Praval Bisht Lalit Upreti	B.Sc. (H) Electronics III Year
19.	Quartz Crystal Microbalance (QCM) based Biosensing	Dr. Arijit Chowdhuri Dr. V. Bhasker Raj	Anudeep A. S. Viren Tyagi Amrit Dutta	B.Sc. (H) Physics II Year
20.	Assessment of Plants Health By Estimation of Water content, Ascorbic acid and Chlorophylls	Dr. Charu Khosla Gupta Dr. Yash Mangla	Mansi Arora Harshvardhan Gupta Bhashkar Paul Kumud Kaul	B.Sc.(H) Biomedical Science II Year
21.	Isolation of Native Caenorhabditis elegans and Used them as Bio-indicator for Soil Toxicity	Dr. Sarita Kumar	Simran Gupta	B.Sc. Life Sciences III Year
22.	Determination of Ambient Air Pollution (AAP) through Estimation of Chlorophyll Content	Dr. Arijit Chowdhuri Dr. Charu Khosla Gupta Dr Yash Mangla	Nitish Kalson Heena Nizam	B.Sc. Life Sciences II Year
23.	EDTA Modified Chitin for Heavy Metal Ion Adsorption From Waste Water	Dr. Geetu Gambhir Dr. Sunita Hooda	Narain Swami Ravina Yadav Drashya	B. Sc. Life Sciences II Year B.Sc. (H) Chemistry
24.	Synthesis of Graphene oxide, and its Modification using Polysaccharide for Water	Dr. Geetu Gambhir Dr. Sunita Hooda	Manisha Gupta Narain Swami Drashya	B.Sc. Life Sciences III Year

	Purification			
25.	To Extract the Colored Component of <i>Hibiscus</i> <i>rosasinensis</i> flower and study its potency as a pH indicator	Dr. Neeti Misra Dr. Pankaj Khanna Dr. Kavita Mittal	Kirti Chugh Ramandeep Ishika Sagwal	B.Sc. (H) Chemistry III Year B.Sc. (H) Chemistry I Year B.Sc. (H) Chemistry I Year
26.	Effect of Sonication on Graphite and Graphene oxide (GO)	Dr. Sunita Hooda Dr. Geetu Gambhir	Meghna Singh Sneha Mahar Drashya	B.Sc. Life Sciences III Year
27.	Detection of Adulterants in Milk from Different Sources and Synthesis of Metal Complexes of Schiff Bases using Sonication	Dr. Neeti Misra Dr. Pankaj Khanna Dr. Kavita Mittal	Harshita Madaan Saatwik Suman	B.Sc. (H) Chemistry II Year
28.	Text to Speech Converter	Dr. Ravneet Kaur Ms. Gauri Ghai.	Aditya Raj Singh	B.Sc. (H) Electronics III Year
29.	Moina:A Prospective Model Organism to study Parkinson's Disease	Dr. Sarita Kumar	Amit Babu Akhila A	B.Sc. (H) Biomedical Science III Year
30.	Drosophila melanogaster: A Potent Model Organism for Advanced Studies in Behavioural Science	Dr. Sarita Kumar	Komal Kotra Maryada Arya	B.Sc. (H) Zoology II Year B.Sc. Life Sciences II Year
31.	Effect of Diet on the Growth and Haemolymph Protein Profile of <i>Helicoverpa</i> <i>armigera</i> .	Dr. Sarita Kumar	Vatsal Bhargava Parikshit Sahotra Harshita	B.Sc.(H) Zoology II Year
32.	Quantitive Analysis of Water from Different Source for Concentration Levels of Different Pollutants	Dr. Arijit Chowdhuri Dr. Charu Khosla Gupta Dr Yash Mangala	Payal Singh Ankita Negi	B.Sc. Life Sciences II Year
33.	Surface Plasmon Resonance (SPR) – a Tool to Detect Change in Refractive index	Dr. Arijit Chowdhuri Dr. Charu Khosla Gupta Dr. Archna Pandey	Tamanna Sudeepta Singh Sansi Bansal Sarang Saini	B.Sc. (H) Biomedical Science II Year
34.	Cell Phone Detector	Dr. Anju Agrawal Ms. Gauri Ghai	Avinash Kumar Lal Abhishek Bhadana Shashank Nagar Anmol Dogra	B.Sc. (H) Electronics III Year
35.	PhysicochemicalandBiologicalAnalysisofLeachatefromOkhlaLandfillImage: Constraint of the second	Dr. Ravi Toteja Dr. Seema Makhija Dr. Pooja Bhagat	Pranjal Sharma Deepika Joshi	B.Sc. (H) Zoology III Year
36.	IsolationandCharacterizationofMacronuclearDNAOfCiliates	Dr. Ravi Toteja Dr. Seema Makhija	Ruchika Bhardwaj Deepanshu Vats Rajanshi Mishra Naeem Ahmed Shushank	B.Sc. Life Sciences III Year B.Sc. Life Sciences II Year B.Sc. (H) Zoology II

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			Mustabin Ahmed	Year
37.	Identification of Cysteine Rich Domains in the Ciliate, <i>Tetmemena</i> using Systematic Bioinformatics Tools	Dr. Ravi Toteja Dr. Seema Makhija	Ankush Singh Khushboo Dalal	B.Sc. Life Sciences II Year
38.	A Study on the Process of Regeneration in Ciliate, <i>Tetmemena</i> sp.	Dr. Ravi Toteja Dr. Seema Makhija Dr. Pooja Bhagat	Harshvardhan Sahu Vanya Garg Khushboo Garg	B.Sc. (H) Chemistry III Year B.Sc. (H) Zoology (Pass Out)
39.	Investigating the Effect of Cadmium and Ethidium Bromide on DNA using Surface Plasmon Resonance (SPR) Technique	Dr. Arijit Chowdhuri Dr. Charu Khosla Gupta Dr. Seema Makhija Dr. Ravi Toteja	Chaitanya Raj Senjuti Sengupta	B.Sc. (H) Physics (Pass Out) B.Sc. (H) Zoology (Pass Out)
40.	Molecular Markers for Authentication of Highly Traded Controversial Medicinal Plants in India: A Compilation	Dr. Sumit Sahni Dr. Vineet Kumar Singh Dr. Manoj Kumar Singh	Radhika Verma Sakshi	B.Sc. Life Sciences III Year
41.	A Review of Lignin Degradation and its Bioconversion	Dr. Sumit Sahni Dr. Manoj Kumar Singh	Chetna Kalpana	B.Sc. (H) Botany III Year
42.	Computational Analysis of Natural Antagonists for Design of Anti-thyroid Drugs	Dr. Gagan Dhawan	Ashwin Uday	B.Sc. (H) Biomedical Science III Year
43.	Smartphone To Digital Microscope	Dr. Amit Garg	Pritika Kwatra	B.Sc. (H) Biomedical Science I Year
44.	Using the Arduino for the Experimental Determination of a Friction Coefficient by Movement on an Inclined Plane	Dr. Amit Garg	Avinash Kumar Lal Tripti Varshney	B.Sc.(H) Electronics III Year B.Sc. (H) Physics II Year
45.	Voice Controlling Car	Dr. Amit Garg	Abhishek	B.Sc. (H) Electronics II Year
46.	Li-Fi- Sound Transmission using LED Lights	Dr. Amit Garg	Devesh Yadav	B.Sc. Physical Science with Computer Science I Year
47.	Laser Based Footfall Counter	Dr. Amit Garg	Prahlad Prajapat Jaya	B.Sc. (H) Electronics II Year B. Sc. Physical Science with Computer Science
48.	Smart Mirror	Dr. Amit Garg	Prince Sharma Aqil Ali	B.Sc. (H) Electronics III Year
49.	Assistive Gadgets for Visually Impaired Students	Dr Ravneet Kaur Ms Gauri Ghai	Ritesh Raj Chiradeep Das	B.Sc. (H) Electronics (Pass Out)
50.	Synthesis of Zinc Oxide Nanoparticles from <i>Ficus</i>	Dr. Gagan Dhawan Dr. Satender Singh	Muskan Jindal	B,Sc. (H) Biomedical Science III Year
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Religiosa	Astha	B,Sc. (H) Biomedical
		Science II Year

### Seminar/Training Courses conducted

### **Biomedical Science: 12**

S. No.	Exhibition/Seminar/Training Corse conducted	Duration
1.	Workshop on Forensic Examination of Documents for non- teaching staff of Delhi University colleges	One Day (June 16, 2017)
2.	Workshop on Forensic Examination of Documents for faculty members involved in admissions	One Day (June 23, 2017)
3.	Cathexis'18-Annual departmental festival of Department of Biomedical Science (Theme: Cancer)	One Day (March 12, 2018)
4.	Cyber Criminalistics (One- day symposium on Forensic Science)	One Day (March 28, 2018)
5.	Cathexis'19-Annual departmental festival of Department of Biomedical Science (Theme: Demystifying myths surrounding human health)	One Day (January 31, 2019)
6.	Workshop on "FOLDSCOPE" microscope	One Day (February 2, 2019)
7.	Learning R-programming Skills and Applications to Proteomics	Two Day (March 15-16, 2019)
8.	One day forensic science workshop entitled 'Fraud, Forgery & Forensics: Examining handwriting, Fingerprints and Security Documents'	One Day (April 3, 2019)
9.	Webinar on "Deciphering the language of DNA"by Dr. Akhilesh Mishra (Project Scientist, National Anti-Microbial Resistant Program)	One Day (May 15,2020)
10.	<ul> <li>Webinar on "Nucleic acid based detection of COVID-19 " Developed by IIT Delhi by:</li> <li>(1) Dr. Vivekanandan Perumal (Associate Professor, IIT Delhi)</li> <li>(2) Dr. Prashant Pradhan (Assiastant Professor, ANDC),</li> <li>(3) Dr. Akhilesh Mishra (Post-doc, IIT Delhi),</li> <li>(4) Dr. Parul Gupta (Post-doc, IIT Delhi),</li> <li>(5) Dr. Ashutosh Pandey (IIT Delhi)</li> </ul>	One Day (June 5, 2020)
11.	One day workshop on Sci-Art Workshop	One Day (September 19, 2019)

_	1 I		
12.	BMS 'Alumni' lecture series	One	Day
	Dr. Vaibhav Agarwal (1999-2002 Deputy director, Deutsche	(February 4, 2	2020)
	Forschungs gemeinschaft (DFG)		
	Dr Shikha Taneja (1999-2002), Program Manager, BIRAC		
	Dr. Aanchal Sharma (2000-2003), Sr. Scientist, Neoliver		
	Dr. Lakshya Kataria, Post-Doctoral associate at IIT, Delhi		
	Mr. Aseem Gaurav, Glanis company		
	Mr. Mrinal Chawla, Bureaucrat, Dept. Director, Government of		
	India		
	Dr. Megha Sethi, CSIR- IGIB		
	Ms. Sumaira Rizvi, Freelance Journalist		
	Ms. Shruti Gupta, PhD Scholar, JNU;		
	Mr. Mritunjay Singh Yadav, Ph.D. Scholar, JNU		
	Mr. Alok, M.Sc. Comp. Biology, JNU		
	Mr. Raghay, NGO operative		

# Botany: 07

S. No.	Exhibition/Seminar/Training Corse	Duration
1.	workshops on Microbial Techniques for college students	Three Days (each in January and April, 2018)
2.	Workshops on Microbial Techniques for college students	Three Days (4-6 April, 2018)
3.	Two-day workshop on "Hands-on to Computational Biology for (meta)genomic analysis	Two Days (April 4-5, 2019)
4.	Interdisciplinary workshop "Learning Science by Doing Science"	Five Days (June 18-22, 2019)
5.	Three day workshop entitled "Learning Science: The 'Do It Yourself' way" in collaboration with National Science Bhawan	Three Days (July 17-19, 2019)
6.	Inter-College hands-on workshop on "Surface Plasmon Resonance (SPR) and UV-Visible Spectroscopy: Basic working principle and Environmental Applications"	Three Days (August 23-27, 2019)
7.	One day workshop entitled 'Foldscope'	One day (September 9, 2019)

# Chemistry: 04

S. No.	Exhibition/Seminar/Training Corse conducted	Duration
1.	Workshop on Systematic Use of Digital Information	One Day (November 10, 2017)
	in Academic Activities'	
2.	Symposium on Safety Measures and Laboratory Ethics'	Two Days (February 21-22, 2018)
3.	A Seminar on intellectual Property Rights was organized in Seminar Hall, Acharya Narendra Dev College. The following speakers were invited for talk:	One Day (November 7, 2019)

	Acharya Narendra Dev College Completion Report	
	<ul> <li>Dr. Nidhi Sandal, Scientist E, INMAS, DRDO gave talk on Patents</li> <li>Mr. Ravi Chadha, Partner, Trademarks Rahul Chaudhry &amp; Partners gave talk on Trademarks.</li> <li>Dr. Atul George Scaria, Assistant Professor, National Law University Dalki gave talk on</li> </ul>	
	Copyright.	
4.	A live webinar entitled "Covid 19 Impact: Strategies for Education and Challenges in Virtual Learning" By Swaranjeet Singh Chatwal, Director, Harteek group of Companies was organized	One Day (May 20, 2020)

# **Computer Science: 06**

S. No.	Exhibition/Seminar/Training Corse conducted	Duration
1.	Workshop on Linux and FOSS	Three Days (August 8-11, 2017)
2.	Workshop on Linux and FOSS	Three Days (August28-September 4, 2018)
3.	Workshop on Awareness on Digital India Initiative	One Day (September 18, 2018)
4.	Inter-Disciplinary workshop on "Linux and FOSS"	Four Days (September 16-19, 2019)
5.	Workshop on 'Machine Learning using Python'	One Day (March 4, 2020)
6.	Webinar on "Unraveling The Social Network Of Covid-19 In India From 30th Jan To 6th Apr 2020"by Dr. Sarita Azad (Assistant Professor, School of Basic Sciences, IIT Mandi, Himanchal Pradesh)	One Day (June 15, 2020)

### **Electronics: 08**

S. No.	Exhibition/Seminar/Training Corse conducted	Duration
1.	Workshop on Arduino	One day (September 27, 2017)
2.	Induction Workshop (SPIE): Two-day orientation program to apprise newly joined SPIE student members about the latest activities and projects being carried out under the aegis of DBT STAR college scheme and SPIE Student Chapter	Two days (September 25-26, 2018
3.	One day workshop entitled 'Optical Color Mixing': Workshop to give a practical overview of optical color mixing with emphasis on the difference between optical and pigment colors	One Day (August 9, 2019)
4.	A hands-on workshop on 'Arduino': A hands-on workshop to familiarize students with programming and designing automated systems using arduino	One Day (September 7, 2019)
5.	A hand on workshop on 'Raspberry Pi' automation	One Day (March 3, 2020)

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	system: Workshop to give a general overview about raspberry Pi and also provide hands-on training in designing a simple automation system using raspberry Pi	
6.	A hands-on workshop on robotics 'Robo Race': Workshop to give hands-on training in building a robotic vehicle and programming it to enable its forward, backward and sideways movement	One Day (March 3, 2020)
7.	Python Workshop A workshop on 'PYTHON' was organized in association with, industry partner Coding Blocks for the students of Electronics	One Day (April 3, 2019)
8.	On Line: LabView Workshop: Workshop to provide basic training and hands-on exposure to Virtual Instrumentation and LabView	Five Days (June 23-27, 2020)

# Physics: 10

S No	Exhibition/Seminar/Training Corse conducted	Duration
1.	One Day Seminar on 'Applications of Biomedical Imaging in Drug Discovery and Treatment Monitoring" by Dr. Soumya Mitra, Senior Scientist II, Pathology & Imaging Group, Department of Immunology Pharmacology, Abbvie Bioresearch Center, Massachusetts, USA	One Day (September 26, 2017)
2.	One day Seminar on Energy Harvesting – applications in day-to-day life and Functional Materials for Device Applications By Prof. Vinay Gupta	One Day (April 10, 2018)
3.	Two Day Inter-college hands – on workshop titled "Arduino - Basic Programming & Applications" for students of various disciplines.	Two Days (April 11-12, 2018)
4.	Two Days hands-on workshop titled Paradigm shift in Physics Education through hands-on techniques in Optics was organized in collaboration with	Two Days (September 5&7, 2018)
5.	One day Seminar on Nanotechnology – Applications in Optoelectronics and Renewable Energy' by Professor Hark Hoe Tan, from Department of Electronic Materials Engineering, Research School of Physics and Engineering, Australian National University, Canberra, ACT – 2601, AUSTRALIA	One Day (January 31, 2019)
6.	<ul> <li>One Day Seminar on Functional Materials for Device Applications which included invited talks by: <ul> <li>(1) Professor Vinay Gupta (Novel materials and techniques of harnessing Renewable Energy)</li> <li>(2) Mr. Sujit Kumar (Molydenum DiSulphide (MoS<sub>2</sub>): a promising 2D Material'</li> <li>(3) popular talk by Ms. Phalguni Mathur (Multiple-Input and Multiple-Output (MIMO) antennas for 5G and Internet of Things')</li> </ul> </li> </ul>	One Day (March 15, 2019)
7.	One day seminar on "Quartz Crystal Microbalance (QCM) for environmental monitoring and gas detection" by Ms. Priya Chopra, PG student at Bonn- Cologne Graduate School of Physics and Astronomy (BCGS), Bonn, GERMANY	One Day (September 12, 2019)
8.	Interdisciplinary workshop "Learning Science by Doing Science"	Five Days (June 18-22, 2019)
9.	Inter-College hands-on workshop on "Surface Plasmon Resonance (SPR) and UV-Visible Spectroscopy: Basic working principle and Environmental Applications"	Five Days (August 23-27, 2019)
10.	One Day Webinar on "Inroduction to Radiometery and Photometry by Dr. Shibu Saha, Scientist, Optical Radiation Metrology and Assistant Professor, Academy of Scientific and Innovative Research National Physical Laboratory, Dr. K.S.	One Day (May 9, 2020)

### Zoology: 17

S. No.	Seminar/Training Course conducted	Duration
1.	Seminar on Anxiety at Workplace	One Day (August 25, 2017)
2.	Workshop on PCR and Southern Blotting. 77 students	One Day (September 26, 2017)
	of B. Sc. (H) Zoology B. Sc. (H) Chemistry, B. Sc.	
	(H) Physics, B. Sc. Life Sciences participated	
3.	Seminar on IPR and Social Insects	One Day (September 5, 2017
4.	Symposium on Safety Measures and Laboratory	Two Day (February 21-22,
	Ethics'	2018)
5.	Mini Symposium on International Women's Day	One Day (March 8, 2018)
6	International Symposium on Ciliate Biology	Three Day (April 4-6, 2018)
7	Workshop on Hands on Training of FLISA	One Day
/•	Technique 25 students of B Sc. (H) Zoology and	One Day
	B Sc. Life Sciences participated in the workshop	
8.	Two-day workshop on "Hands-on to Computational	Two Days (April 4-5, 2019)
	Biology for (meta) genomic analysis. 33 students	1 e 2 je (1 . je e . , 2012)
	attended the workshop	
9.	Five Days Interdisciplinary workshop "Learning	Five Days (June 18-22, 2019)
	Science by Doing Science". 23 students attended the	- · · · · · · · · · · · · · · · · · · ·
	workshop	
10.	Three day workshop entitled "Learning Science: The	Three Days (July 17-19, 2019)
	'Do It Yourself' way" in collaboration with National	
	Science Bhawan, 38 school students participated in	
	the workshop.	
11.	One day Hands on workshop "Learning Molecular	One Day (September 24, 2019)
	Biology Techniques". 67 students attended the	
10	Workshop	$O_{\rm max} = D_{\rm max} \left( N_{\rm max} + 1 + 22 + 2010 \right)$
12.	Techniques was arganized by Department of Zeelegy	One Day (November 22, 2019)
	for the undergraduate and Post Graduate students of	
	G D Goenka University	
13.	Hands on workshop was arranged for zoology	One Day (February 19, 2020)
101	students of Kirori Mal College (KMC). 17 students of	She Day (Perially 19, 2020)
	KMC visited ciliate biology laboratory to familiarize	
	them with the ciliate cell culture techniques	
14.	One day Intercollege workshop in collaboration with	One Day (February 25, 2020)
	Deen Dayal Upadhaya College (DDUC) titled	
	"Molecular Microbiology" was organized	
15.	Hands on workshop was arranged for zoology	One Day (February 27, 2020)
	students of Swami Shradha Nand College (SSN).10	
	students of SSC visited ciliate biology laboratory for	
1(	showing ciliate cell culture facility (a)ANDC	0 D (M 11 2020)
16.	One Day Webinar on "The growth of Linnaean	One Day (May 11, 2020)
	unought, impact of common descent and current	
	Department of Zoology and Environmental Sciences	
	Punjahi University Patiala)	
	i unguoi Oniversity, i uturuj	

17.	"Evolution as Darwin knew as a child "Dr.
	Mallikarjun Shakarad, (Professor, Aqua Research lab,
	Department of Zoology, University of Delhi)

One Day (May 22, 2020)



# Exhibitions/seminars/training courses/Projects /visits conducted

#### **Biomedical Sciences**

- One day interdisciplinary workshop "New Frontiers in Science (October 22, 2019)
   As a part of outreach program, students from various schools were also invited for this exhibit cum workshop. Around 110 from three different schools attended the event. Enthusiasm and curiosity amongst the school students towards latest research trends in science and technology was quite evident. Interaction and sharing of ideas between school students and the participants/presenters made the event even more successful.
- 2) Global Bio-India Summit: This Summit was attended by More than 12 faculty members from various departments of ANDC attended this event (Dr Archna Pandey and Dr Gagan Dhawan of the Department attended the summit). The Global Bio-India summit was held for the first time in India in Aerocity, New Delhi from November 21-23, 2019. Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India and it's Public Sector Undertaking, Biotechnology Industry Research Assistance Council (BIRAC) organized Global Bio-India Summit 2019, a mega international congregation of biotechnology stakeholders, including international bodies, regulatory bodies, Central and State Ministries, SMEs, large industries, bio-clusters, research institutes, investors, and the start-up ecosystem.
- 3) Attended International Summit on Women in STEM "Visualizing The Future: New Skylines" International Summit on Women in STEM "Visualizing The Future: New Skylines" organised by ICGEB, New Delhi was held on January 23-24 2020. Dr Archna Pandey participated and attended this summit. 3 poster were presented by our college out which "Arduino Based Solar Tracking System" presented by Prahlad Prajapat and Ankita Shukla won the poster presentation competition. Highly enthusiastic and encouraging talk was given by the guests Dr. Sachie Panawala, Dr. Suraksha S. Diwan, Professor Melanie Welham, Dr. Simon Kay, Ms. Tania Friedrichs and many renowned women scientists in STEM from different countries, young as well established scientists, science communicators, industrialists and entrepreneurs from India.
- 4) Attended Open Day" at Regional Center for Biotechnology, Faridabad on September 16, 2019: Students visited the RCB labs and instrumentation facilities, and learnt about various techniques and laboratory instruments for aerobic and anaerobic bacterial culture, protein separation techniques and animal facility etc. They were introduced with the new career path of being an Entrepreneur with their passion for science
- 5) Visit to Delhi police crime branch's office, New Delhi to understand the working mechanism of Automated Fingerprint identification system (AFIS) on April 10, 2019.: The visit provided hands-on training and inculcated the understanding of the working mechanism of automated fingerprint identification system. This help students to enhance their knowledge in forensic science
- 6) Attended and Presented at Third National Conference on "Emerging Synergistic Trends in Ayurvedic and Biomedical Science" at Bundelkhand University, Jhansi on February 18-21, 2020: Symposium included visit to Innovation Center and Central Animal facility. 11 students selected from our college to present their posters in the conference got splendid reviews from the scientific community for their work.
- 7) Visit to Regional Centre for Biotechnology (RCB) to attend open day session on February 28, 2020: Students visited the RCB labs and instrumentation facilities, and learnt about various techniques and laboratory instruments for aerobic and anaerobic bacterial culture, protein separation techniques and animal facility etc.
- 8) Attended IISF (Indian International Science Festival), 2018 @ Lucknow : The Indian International Science Festival which was organised by the Ministry of Science and Technology,

Ministry of Earth Sciences in association with Vijnana Bharati at Indra Gandhi Pratishthan, Lucknow; held from 5th to 8th October, 2018. Two students of the Department attended the Science Festival

9) Visit to THISTI: Four students were given the opportunity to visit the Translational Health Sciences and Technology Institute and work under their scientists for a period of one week from 20th of December 2018 to 28th of December 2018. They worked in the Pediatric Biology Centre (PBC) of THSTI.

### Botany (14)

- 7) "Learning Science: The 'Do It Yourself' way": A Three day workshop entitled "Learning Science: The 'Do It Yourself' way" was organized for school students jointly by the Department of Botany and Zoology under the aegis of DBT-Star Scheme for College, in collaboration with National Bal Bhavan, Delhi from July 17-19, 2019. 38 students of classes IX-XI from different schools of Delhi and National Bal Bhavan participated in the workshop meant to inculcate their interest and curiosity in biological sciences.
- 8) One day interdisciplinary workshop "New Frontiers in Science (October 22, 2019)
  - a. As a part of outreach program, students from various schools were also invited for this exhibit cum workshop. Around 110 from three different schools attended the event. Enthusiasm and curiosity amongst the school students towards latest research trends in science and technology was quite evident. Interaction and sharing of ideas between school students and the participants/presenters made the event even more successful.
- 9) Dr Rashmi Sharma conducted "One Day workshop on Foldscope" for the students of Bal bhawan on September 11, 2019.
- 10) Global Bio-India Summit: This Summit was attended by More than 12 faculty members from various departments of ANDC attended this event (Dr Charu Gupta, Dr. Rashmi Sharma and Dr. Sumit Sahni of Botany Department attended the summit). The Global Bio-India summit was held for the first time in India in Aerocity, New Delhi from November 21-23, 2019. Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India and it's Public Sector Undertaking, Biotechnology Industry Research Assistance Council (BIRAC) organized Global Bio-India Summit 2019, a mega international congregation of biotechnology stakeholders, including international bodies, regulatory bodies, Central and State Ministries, SMEs, large industries, bio-clusters, research institutes, investors, and the start-up ecosystem.
- 11) **Visit to Indian Agricultural Research Institute (IARI), Delhi**: Students of 2<sup>nd</sup> year B.Sc. (H) Botany were taken on educational trip to IARI on October 3, 2018. The students were introduced to the application and scope biofertilizers in India.
- 12) **Visit to CSIR-IHBT, and CSK-HPKV, Palampur, Himachal Pradesh**: From March 27-31, 2019, 3<sup>rd</sup> year students of B.Sc. (H) Botany went for a trip Palampur, HP to visit CSIR-IHBT and CSK-HPKV.
- 13) A curriculum based visit was organized to CSIR-Institute of Indian Institute of Integrative Medicine (IIIM), Jammu from March, 2<sup>nd</sup> to 4<sup>th</sup> 2020. The excursion was aimed to demonstrate the practical applications of theoretical knowledge which the students are studying in their core and discipline specific elective papers.
- 14) Curriculum based trip to Jaislmer was conducted for 2<sup>nd</sup> year B.Sc. (H) Botany students to Jaisalmer from 18-22 February 2019. Students visited Desert National Park and Fossil Museum.
- 15) Department organized a field excursion for a Group of 48 students to Mukteshwar, Kausani and Nainital (Uttarakhand) from 18<sup>st</sup> - 22<sup>th</sup> October 2019 to introduce the students to 'Ethnobotany' of the region, botanical collections, activities and conservation functions.

- 16) The Department has organized an excursion to Tirthan Valley, Himachal Pradesh from 05<sup>th</sup> 09<sup>th</sup> Otober 2018 for the IInd year students. Students visited Great Himalayan National Park and Chhoi water fall.
- 17) The Department has organized an excursion to Dalhousie, Himachal Pradesh from 23<sup>th</sup> 27<sup>th</sup> October 2017 for the IInd year students. Students visited Kalatope Wild life Sanctury, Panchpulla and Khajjiiar.
- 18) A visit was organized for students to attend Open Day at THSTI, Pali, Haryana on 15<sup>th</sup> July 2019 where they were introduced to new and emerging research areas and its translation into Health Sciences.
- 19) A visit to Regional Centre for Biotechnology, Pali, Haryana on 24<sup>th</sup> September 2018 to attend Open Day.
- 20) A visit to National Agricultural Science Museum, NASC Complex, PUSA, New Delhi was organized for the students of second year to learn agricultural technology and diversity of Indian Crops on March 15, 2018

#### **Computer Science**

- 1) One day interdisciplinary workshop "New Frontiers in Science (October 22, 2019): As a part of outreach program, students from various schools were also invited for this exhibit cum workshop. Around 110 from three different schools attended the event. Enthusiasm and curiosity amongst the school students towards latest research trends in science and technology was quite evident. Interaction and sharing of ideas between school students and the participants/presenters made the event even more successful. (Details of the posters from the Department is given in Annexure...).
- 2) Global Bio-India Summit: This Summit was attended by More than 12 faculty members from various departments of ANDC attended this event (Dr Harita Ahuja of Department attended the summit). The Global Bio-India summit was held for the first time in India in Aerocity, New Delhi from November 21-23, 2019. Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India and it's Public Sector Undertaking, Biotechnology Industry Research Assistance Council (BIRAC) organized Global Bio-India Summit 2019, a mega international congregation of biotechnology stakeholders, including international bodies, regulatory bodies, Central and State Ministries, SMEs, large industries, bio-clusters, research institutes, investors, and the start-up ecosystem.
- 3) Visit to National Centre for Medium Range Weather Forecasting (NCMRWF), Noida: Students of B.Sc. (H) Computer Science and B.Sc. (Physical Sc. with Computer Science) were taken on educational trip to NCMRWF on 18<sup>th</sup> September, 2017. Students were made aware of high performance computing of Super Computers CRAY, PARAM and BHASKARA. Also, students were exposed to operational applications emphasizing on bridging the gap between weather monitoring and weather forecasting.
- 4) Visit to ASHOKA (Super Computing Facility) and Data Center-ICAR: B.Sc. (H) Computer Science and B.Sc. (Physical Science with Computer Science) were taken on educational trip to to ASHOKA (Super Computing Facility) and Data Center-ICAR at Indian Agricultural Statistics Research Institute (IASRI) on 11th October, 2018.
- Visit to National Science Centre, Vigyan Samagam: Department of Computer Science organized a one day excursion/educational trip on 26<sup>th</sup> February, 2020 to National Science Centre, Pragati Maidan,

### Electronics

1) One day interdisciplinary workshop "New Frontiers in Science (October 22, 2019)

As a part of outreach program, students from various schools were also invited for this exhibit cum workshop. Around 110 from three different schools attended the event. Enthusiasm and curiosity amongst the school students towards latest research trends in science and technology was quite evident. Interaction and sharing of ideas between school students and the participants/presenters made the event even more successful.

- 2) Global Bio-India Summit: This Summit was attended by More than 12 faculty members from various departments of ANDC attended this event (Dr Ravneet Kaur and Ms Gauri Ghai of the Department attended the summit). The Global Bio-India summit was held for the first time in India in Aerocity, New Delhi from November 21-23, 2019. Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India and it's Public Sector Undertaking, Biotechnology Industry Research Assistance Council (BIRAC) organized Global Bio-India Summit 2019, a mega international congregation of biotechnology stakeholders, including international bodies, regulatory bodies, Central and State Ministries, SMEs, large industries, bio-clusters, research institutes, investors, and the start-up ecosystem.
- 3) Participation of Department students in National Science Day, INSA, New Delhi: The Indian National Science Academy (INSA), Delhi and the Indian Academy of Sciences (IAS), Bengaluru along with University of Delhi colleges jointly celebrated the National Science Day on February 28, 2018 at INSA Auditorium, New Delhi. Following posters and projects/models were selected from the Electronics Department for National Science Day 2018 celebrations:
- Abhishek Raiwani, B. Sc. (H) Electronics, III Year presented Brain-Controlled Wheelchair
- Adarsh Maurya B. Sc. (H) Electronics, III Year presented Light in Action
- Hardik Minocha, B. Sc. (H) Electronics, I Year presented Promotion of Optics and Photonics During the event, a total of 32 posters and 27 projects were put on display by different colleges of University of Delhi. The project "Brain-Controlled Wheelchair" won the Second Prize in the Project Category.
- (1) Visit to National Science Centre, Vigyan Samagam: Department of Electronics organized a one day excursion/educational trip on 22<sup>nd</sup> February, 2020 to National Science Centre, Pragati Maidan, on the occasion of 'Vigyan Samagam', India's first-ever, global Mega-Science exhibition.Vigyan Samagam' proved to be a great platform for the students to witness world-renowned Mega Science projects and listen to eminent scientists. Projects were displayed at the event by some of the world's major collaborators including CERN (European Organization for Nuclear Research), FAIR (Facility for Antiproton and Ion Research), INO (India-based Neutrino Observatory), ITER (International Thermonuclear Reactor) and LIGO (Laser Interferometer Gravitational Wave Observatory), SKA (Square Kilometer Array) and TMT (Thirty Meter Telescope) to name a few.
- (2) Visit to Nanotechnology and Device Fabrication Lab, DU: A one day trip to Nanotechnology and Device Fabrication Research facility on October 3, 2019 under Prof. Vinay Gupta, Department of Physics and Astrophysics, Delhi University, North Campus was organised. The students got the opportunity to know about state-of-the art machines used for research in material science and semiconductor device fabrication. Students were also enlightened about the various regulations which should be followed while working in a material science laboratory such as proper handling of equipments, concept of clean room etc. The trip was very informative for the students and generated great curiosity amongst them towards latest developments in material science and integrated circuit technology.
- (3) **Visit to National Physical laboratory:** One day trip to National Physical laboratory on the occasion of CSIR-NPL Open day 2019 was organized on September 30, 2019. Around 30 students of the department along with two faculty members were part of the visit. The basic

purpose of organizing the trip was to provide exposure to students to the ongoing scientific and technological work being carried out at the CSIR-NPL. Students got the opportunity to explore some of the latest and very sophisticated facilities which are available there for all kinds of accurate measurements in various fields of science, quantum physics, engineering, electronics, environmental science etc.

(4) **Visit to Nehru Planetarium:** Department organized a one day excursion/educational trip on 28th August, 2020 to Nehru Planetarium, Teen Murti House, New Delhi. Over 60 students of the department were part of the trip. A special program 'Back to Moon' was organized to apprise students of the importance of Chandrayaan-2 Mission and how it is different from earlier moon exploration missions. The students were also explained about how Chandrayaan-2 mission is a great milestone in advancement in India's space technology and planetary exploration and enlightened them with the current trends in India's endeavor in space exploration.

### Physics

- (1) One day interdisciplinary workshop "New Frontiers in Science (October 22, 2019): As a part of outreach program, students from various schools were also invited for this exhibit cum workshop. Around 110 from three different schools attended the event. Enthusiasm and curiosity amongst the school students towards latest research trends in science and technology was quite evident. Interaction and sharing of ideas between school students and the participants/presenters made the event even more successful.
- (2) Global Bio-India Summit: This Summit was attended by More than 12 faculty members from various departments of ANDC attended this event (Dr Archna Pandey and Dr Gagan Dhawan of the Department attended the summit). The Global Bio-India summit was held for the first time in India in Aerocity, New Delhi from November 21-23, 2019. Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India and it's Public Sector Undertaking, Biotechnology Industry Research Assistance Council (BIRAC) organized Global Bio-India Summit 2019, a mega international congregation of biotechnology stakeholders, including international bodies, regulatory bodies, Central and State Ministries, SMEs, large industries, bio-clusters, research institutes, investors, and the start-up ecosystem.
- (3) Participation of Department students in National Science Day, INSA, New Delhi:The Indian National Science Academy (INSA), Delhi and the Indian Academy of Sciences (IAS), Bengaluru along with University of Delhi colleges jointly celebrated the National Science Day on February 28, 2018 at INSA Auditorium, New Delhi. Poster Entitled "Mitigating Ambient Air Pollution-- the Long and Short of it" by Jatinder Pal Singh and Priya Chopra B. Sc. (H) Physics, III Year was selected for the event. During the event, a total of 32 posters and 27 projects were put on display by different colleges of University of Delhi.
- (4) One day interdisciplinary workshop "New Frontiers in Science (October 22, 2019): As a part of outreach program, students from various schools were also invited for this exhibit cum workshop. Around 110 from three different schools attended the event. Enthusiasm and curiosity amongst the school students towards latest research trends in science and technology was quite evident. Interaction and sharing of ideas between school students and the participants/presenters made the event even more successful.(Details of the posters from the Department is given in Annexure...).
- (5) A group of students of the Department attended DST Sponsored Fourth Lecture Workshop on Trans-disciplinary Areas of Research and Teaching by Shanti Swarup Bhatnagar Awardees from <u>September 27 - 28, 2019</u> that was jointly organized by National Academy of Sciences India, Alahabad – (NASI) – Delhi Chapter, IEEE Electron Device Society (EDS) – Delhi

Chapter, IEEE Delhi Section – Student Activity Committee and Science Foundation, Deen Dayal Upadhyaya College, University of Delhi.

- (6) Twelve (12) students of Physics attended the "Science Conclave: Research on the Frontiers" organized from <u>10 12 January 2018</u> at D. S. Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi.
- (7) Visit to Electronic Materials & Devices Laboratory (EMDL), Department of Physics & Astrophysics, University of Delhi, Delhi: Students of Final year B.Sc. (H) Physics were taken to an educational trip to EMDL, Department of Physics & Astrophysics, University of Delhi and introduced frontier areas of research in experimental material science. The students learnt rudiments of thin film deposition techniques including RF Sputtering, Thermal Evaporation, Sol-gel, Pulsed LASER deposition (PLD) and Molecular Beam Epitaxy (MBE).
- (8) Visit to Microelectronic Devices Fabrication Laboratory, University of Delhi, Delhi: Students of Final year B.Sc. (H) Physics and B.Sc. Physical Science (Electronics) were taken on an educational trip to Microelectronic Devices Fabrication Laboratory based in University of Delhi, Delhi. Therein the students were given a hands-on feeling of working in an advanced semiconductor fabrication laboratory. Specifically, the students learnt finer nuances of Integrated Chip manufacturing in a Class-1000 room wearing anti-static clothing. They also got exposure to wafer fabrication/characterization equipments including thin film profilometer (Veeco, USA), Wafer Dicer (Disco, Japan), E-beam evaporation (6 kW gun Telemark, USA), Probe Station (Cascade, USA), Semiconductor Characterization System (Keithley, USA), Wire Bonder (Westbond, USA), Mask Aligner (Karl Suss, Europe) and Thermal Oxidation Furnace (MRL, UK) to name a few. The students were thus exposed to cutting-edge technology which commercially does not exist in India.
- (9) Visit to Inter University Accelerator Centre (formerly Nuclear Science Centre), the Department of Physics planned a visit for its students to Inter University Accelerator Centre (IUAC) located at Vasant Kunj in two trips of 10 students each on 5<sup>th</sup> & 28<sup>th</sup> February 2019. The students were thereafter introduced to different types of Particle Accelerators and explained how they worked and why they mattered Three (03) of them presented a poster on the topic Application of Particle Accelerators for Mankind: A Futuristic View
- (10) Undergraduate students of the Department of Physics were sent to INSA to attend a one-day seminar on the occasion of conferment of Meghnad Saha Medal (2018) Award,
- (11) Undergraduate students of the Physics Department attended the investiture ceremony at Vigyan Bhawan, Maulana Azad Marg, New Delhi wherein Council of Scientific & Industrial Research (CSIR), Govt. of India announced Winners of the most Coveted and Prestigious 'Shanti Swarup Bhatnagar'' awards.
- (12) Twelve (12) students of Physics attended the "Science Conclave: Research on the Frontiers" organized from <u>10 12 January 2018</u> at D. S. Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi.

### Zoology

(1) Conducted two outreach programs (BASIC IV & BIOSCOPE I) at two rural schools (Government Senior Secondary School, Bani and Government Senior Secondary School, Biar) in Hamirpur district of Himachal Pradesh under Student DBT Star College Program in collaboration with DDU and Ramjas College. There were at least 10 activities for the students prepared by different groups. Our college students, Sunidhi Aneja and Madhav demonstrated "Life in a drop of water through foldcope."The idea was to take student's interest towards a portable microscope i.e. a foldscope, which is cheap, accessible and easy to use so that students feel it easier to satisfy their curosity when they see something microscopic around them. Videos were recorded and students felt very happy with the foldscope workshop.

- (2) "Learning Science: The 'Do It Yourself' way": A Three day workshop entitled "Learning Science: The 'Do It Yourself' way" was organized for school students jointly by the department of Botany and Zoology under the aegis of DBT-Star Scheme for College, in collaboration with National Bal Bhavan, Delhi from July 17-19, 2019. 38 students of classes IX-XI from different schools of Delhi and National Bal Bhavan participated in the workshop meant to inculcate their interest and curiosity in biological sciences.
- (3) One day interdisciplinary workshop "New Frontiers in Science: As a part of outreach program, students from various schools were also invited for this exhibit cum workshop. Around 110 from three different schools attended the event. Enthusiasm and curiosity amongst the school students towards latest research trends in science and technology was quite evident. Interaction and sharing of ideas between school students and the participants/presenters made the event even more successful.
- (4) One Day Hands on workshop on Molecular Biology Techniques was organized by Department of Zoology on November 22, 2019 organized for the for the undergraduate and Post Graduate students of G.D.Goenka University.
- (5) Hands on workshop cum visit was arranged for zoology students of Kirori Mal College (KMC) and Swami Shradha Nand College (SSN) for showing ciliate cell culture facility @ANDC to familiarize them with the ciliate cell culture techniques.. 17 students of KMC and 10 students of SSC visited ciliate biology laboratory on February 19, 2020 and February 27, 2020, respectively.
- (6) 62 students from B.Sc. (H) Biomedical Science, B.Sc. (H) Zoology and B.Sc. Life Sciences attended TNQ Distinguished Lectures in Life Sciences: Genetic Disorders of Dietary Excess: Getting to the Heart of the Matter, by Prof. Helen H. Hobbs. AICTE Auditorium, JNU Campus, February 15, 2019.
- (7) Dr Sarita Kumar attended Guest Lecture by Padmashree Prof. P. K. Rajagopalan "Entomology, Ecology, Ethology and Epidemiology in Disease Investigation", October 16, 2017, Central Seminar Hall, NCDC, New Delhi
- (8) Participation of Department students in National Science Day, INSA, New Delhi: The Indian National Science Academy (INSA), Delhi and the Indian Academy of Sciences (IAS), Bengaluru along with University of Delhi colleges jointly celebrated the National Science Day on February 28, 2018 at INSA Auditorium, New Delhi. Poster Entitled "Ultraviolet B Induced Protection Strategies in Unicellular Eukaryotic Microbes, Ciliates." by Hritik Kadian, B. Sc. (H) Zoology, III Year was selected for the event. During the event, a total of 32 posters and 27 projects were put on display by different colleges of University of Delhi.
- (9) Komal, student of BSc(H) Zoology II Year
  - Attended National workshop-cum-training on 'Genome Editing (CRISPR)' held at Kirori Mal College, DU, July 23-24, 2019.
  - Attended National Level 'CUBE STEM Workshop Context to Curriculum'; HBCSE, TIFR, Mumbai; August 16-18, 2019.
  - Two-day mini-symposium on 'Genetics and Evolution- Intertwined strands' at Ashoka University, Sonipat on September 30-October 1, 2019.
- (10) Komal, Adarsh Jha, Deepankan, Anshul Gautam, Priya and Amisha Rathaur B.Sc. (H) Zoology-II year Attended 'Open Day', visited labs, exhibits, etc. at NBRC (National Brain Research Centre), Manesar on October 31, 2019.
- (11) Global Bio-India Summit: This Summit was attended by More than 12 faculty members from various departments of ANDC.(Dr Ravi Toteja, Dr Seema Makhija, Dr Rahul Dev and Dr Neelgagan Singh of Zoology Department attended the summit). The Global Bio-India summit was held for the first time in India in Aerocity, New Delhi from November 21-23, 2019. Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India and it's Public Sector Undertaking, Biotechnology

Industry Research Assistance Council (BIRAC) organized Global Bio-India Summit 2019, a mega international congregation of biotechnology stakeholders, including international bodies, regulatory bodies, Central and State Ministries, SMEs, large industries, bioclusters, research institutes, investors, and the start-up ecosystem.

- (12) Attended International Summit on Women in STEM "Visualizing The Future: New Skylines" International Summit on Women in STEM "Visualizing The Future: New Skylines" organised by ICGEB, New Delhi was held on January 23-24 2020. Two Faculty members, Dr Ravi Toteja and Dr Seema Makhija and 17 students of Acharya Narendra Dev College attended this summit. 3 poster were presented by our college out which "Arduino Based Solar Tracking System" presented by Prahlad Prajapat and Ankita Shukla won the poster presentation competition. Highly enthusiastic and encouraging talk was given by the guests Dr. Sachie Panawala, Dr. Suraksha S. Diwan, Professor Melanie Welham, Dr. Simon Kay, Ms. Tania Friedrichs and many renowned women scientists in STEM from different countries, young as well established scientists, science communicators, industrialists and entrepreneurs from India.
- (13) Visit to Indian Agricultural Research Institute (IARI), Delhi: Students of 2<sup>nd</sup> year B.Sc.
  (H) Zoology and 3<sup>rd</sup> year B.Sc. Life Science were taken on educational trip to IARI on Sept. 25, & Sept. 28, 2017, respectively. The students were introduced to the latest techniques involved in apiculture.
- (14) **Visit to Aravalli Biodiversity Park, Gurugram, Haryana**: On Oct. 13<sup>th</sup> 2017, 1<sup>st</sup> year students of B.Sc. (H) Zoology were taken for a trip to the Aravalli Biodiversity Park. While visiting the Biodiversity Park, the students were introduced to important issues such as the need to conserve biodiversity and the various biodiversity conservation strategies.
- (15) Visit to Haryana Agro Industries Corporation (HAIC), Murthal, Haryana: Students of 2<sup>nd</sup> year B.Sc. (H) Zoology and 3<sup>rd</sup> year B.Sc. Life Science were taken on educational trip to HAIC on Oct. 28, 2017. At HAIC, the students were provided technical know-how of the processes involved in the production of honey on an industrial scale.
- (16) **Visit to Drosophila culture lab:** A trip of I Year students was organized to Department of Zoology, DU (under the aegis of DBT STAR college scheme) on March 7, 2019. Students observed *Drosophila* cultures, life cycle stages and mutant flies.
- (17) Visit to Tissue culture Facility: The students of B.Sc. Life Sciences (Vth Semester), Acharya Narendra Dev College, University of Delhi, who were studying the paper of 'Animal Biotechnology' visited Dr. Shailja Singh's lab on October 30, 2018.
- (18) Visit to Animal Cell culture lab at IGIB, Mathura Road was organized for the students of B.Sc. (H) Zoology-III year on April 12, 2019. The State of Art laboratories of the facility created an impact on students.
- (19) Visit to TERI GRAM Bioreactor Facility at Faridabad- Gurgaon Road, Gurugram, Haryana was organized for the students of B.Sc. (H) Zoology-III year on February 11, 2020 where they were familiarize with industrial applications of bacteria for bioremediation



# Outreach activities (Popular lectures /Summit attended)

#### Acharya Narendra Dev College Completion Report Annexure XI Invited Lectures

### **Biomedical Science: 16**

S. No.	Name of guest	Designation	Host Institute
	faculty		
1.	Mr. J. K. Semwal	Course Director,	LNJN-NICFS, Ministry of Home
		Documents Division	Affairs, Govt. of India
2.	Mr. V. N. Sehgal	Former Director	CFSL, CBI
3.	Dr. Anju Gupta	HOD, Dept. of Surgery	Acharya Shree Bhikshu Hospital, GNCTD
4.	Dr. Sushma Sinha	MBBS, MD	Acharya Shree Bhikshu Hospital, GNCTD
5.	Dr. Abhishek Shankar	Assistant Professor	Department of Preventive Oncology, AIIMS
6.	Mr. J. K. Semwal	Course Director,	LNJN-NICFS, Ministry of Home
		Documents Division	Affairs, Govt. of India
7.	Dr. Anurag	Director	IGIB (CSIR)
	Agrawal		
8.	Prof. Rajiv	Director	Amity Institute of Public Health
0	Janardhanan	<b>D</b> (	
9.	Prof. Priya Ranjan	Professor	Amity School of Engineering and
10	Dr. Course dan	LICC Assistant	Department of Distochards and Control
10.	Dr. Surender	UGC-Assistant	Department of Biotechnology, Central
11	Dr. Sidharth	Professor Sr. Scientist	Division of Microbiology CDBI
11.	Chopra	SI. Scientist	Lucknow
12	Dr. Surendra	Assistant Professor	Central University of Rajasthan
12.	Kumar	Assistant 1 10103501	Central Oniversity of Rajastian
13.	Dr Pawan	Founder	Aarna Biomedical Products
	Mehrotra		
14.	Dr. Shruti	Postdoctoral Research	Picower Institute, MIT
	Murlidhar	Associate	
	BMS 'Alumni'		
15.	Mr. Abhishek	Co-Founder and	IndiSciComm
	Chari	contributing editor	
16.	Dr. Shahid Jameel	CEO	Wellcome Trust/DBT India Alliance

# Botany: 11

S. No.	Name of guest faculty	Designation	Host Institute
	Dr. CR Babu	Professor	University of Delhi
	Dr. Shailja Singh	Associate Prof	Jawaharlal Nehru University
	Dr. Rajesh Tandon	Professor	University of Delhi
	Dr. Pawan K Dhar	Professor	Jwaharlal Nehru University
	Dr. Rita Singh	Professor	IP University
	Dr. Suman Kundu	Professor	University of Delhi
	Dr. S.B. Babbar	Professor	University of Delhi

Comptendin Report		
Dr. Ganesh Bagler	Assistant Professor	IIIT, Delhi
Dr. C.V. Srikanth	Associate Professor	Regional Centre for Biotechnology
Dr. Vandana Mishra	Associate Professor	Dept of Environment Science University of Delhi
Dr Amit Yadav	Senior Research Scientist	THSTI

# Chemistry: 13

S. No.	Name of guest faculty	Designation	Host Institute
1.	Dr. Tariq Ashraf	Deputy Librarian,	South Campus, University of Delhi
2.	Dr. Rita Singh	Professor	Department of Zoology, University of Delhi
3.	Dr. Mrutyunjay Suar	Director	School of Biotechnology, KIIT University, Odisha
4.	Dr. Sanjeev Kumar Sharma	Senior Manager	Health & Safety, Jubilant Generics Limited
5.	Dr. Vijay Pal Singh	Deputy Director	Food Safety and Standards Authority of India (FSSAI)
6.	Dr. Rup Lal	Professor	Department of Zoology, University of Delhi
7.	Dr. Gagan Dhawan	Assistant Professor	ANDC, University of Delhi
8.	Dr. Sanjukta Subudhi	Scientist	TERI
9.	Dr. Kamal Gupta	Associate Professor	Deshbandhu College, University of Delhi
10.	Dr. Surendra Kumar	Assistant Professor,	Central University of Rajasthan
11.	Dr. Rajkumar Halder,	CEO and Founder	Ruhvenile Biomedical OPC
12.	Swaranjeet Singh Chatwal	Director	Harteek group of Companies
13.	Dr. Pijus K. Sasmal	Associate Professor	Department of Physical Sciences, J.N. U.

# **Computer Science: 10**

S. No.	Name of guest faculty	Designation	Host Institute
1.	Dr. A.k. Mohapatra	Associate Professor	Indira Ghandhi Delhi Technical University for Women (IGDTUW)
2.	Dr. Geeta Bhatt	Associate Professor	DepartmentofInstrumentation,BhaskaracharyaCollegeofAppliedSciences, University of Delhi.
3.	Mr. Lalit Mathur college alumini)	Director	DCIRRUS
4.	Dr. Vasudha Bhatnagar	Professor	Department of Computer Science, University of Delhi.
5.	Mr. Lovetesh	Academy Member	ICT Academy
6.	Иr. Jitender Singh	Sr. Principal Software Engineer	Caastle
7.	Prof. Anil Ohri	Member	ICT Academy

### Acharya Narendra Dev College

8.	Mr. Manish Bansal	Principal System Engineer	Altran Technologies
9.	Dr. Ramesh Aggarwal	Professor	Jawahar Lal Nehru Univeristy
10.	Sarita Azad	Assistant Professor	IIT Mandi, Himachal Pradesh, India

### **Electronics: 06**

S. No.	Name of guest faculty	Designation	Host Institute
1.	Mr. Devender Dhawan	Founder of 'TouchTECHNO'	TouchTECHNO, Delhi
2.	Prof. Marija Strojnik	Astrophysicist and Distinguished Professor at Optical Research Center, Mexico	Autonomous Navigation System with Intelligent Camera for Space and Earth'
3.	Prof. Mridula Gupta	Professor, Department of Electronic Science, University of Delhi.	Department of Electronic Science, University of Delhi
4.	Ms. Anju Kumari	Motivational speaker, Life skills trainer, Founder	Crafting Leaders
5.	Mr. Rohit Gambhir	Lead in Mobile Application Development, QA Infotech	QA Infotech
6.	Mr Sourabh Basu	Scientist/ Engineer 'SE'	ISRO Satellite Centre, Bangalore & Joint Deputy Director, NTRO, New Delhi

# Physics: 16

S. No.	Name of guest faculty	Designation	Host Institute
1.	Dr. Soumya Mitra	Senior Scientist II, Pathology & Imaging Group, Department of Immunology Pharmacology	Abbvie Bioresearch Center, Massachusetts, USA
2.	Dr. David Kocman	Head of Research Group, Department of Informatics	Jozef Stefan Institute, Ljubljana, Slovenia
3.	Prof. Vinay Gupta	Dean, Examinations and Professor, Department of Physics & Astrophysics	University of Delhi, India
4.	Dr. Amit Garg	Associate Professor, Department of Electronics	ANDC, University of Delhi, India
5.	Prof. Hark Hoe Tan	Professor at Department	Australian National University,

		of Electronic Materials Engineering, Research School of Physics and Engineering	Canberra, ACT – 2601, Australia
6.	Prof. Vinay Gupta	Dean, Examinations and Professor, Department of Physics & Astrophysics,	University of Delhi, Delhi, India
7.	Mr. Sujit Kumar	Visiting Scholar	National Device Laboratory, Taiwan and Taiwan Semiconductor Manufacturing Company (TSMC)
8.	Ms. Phalguni Mathur	Research Scholar and Specialist in Microwave Electronics and RADAR Systems	Department of Physics, Bharatiar University, Coimbatore, Tamil Nadu, India
9.	Ms. Anshumala Gupta	Founder Director	Joy of Learning Foundation, Delhi
10.	Dr. Ayushi Paliwal	Assistant Professor	Department of Physics, Deshbandhu College, University of Delhi, Delhi
11.	Dr. Lokesh Rana	Post-doctoral Fellow	Electronic Materials & Devices Laboratory, Department of Physics & Astrophysics, University of Delhi, Delhi
12.	Mr. Prashant Pradhan	Ph.D. Scholar	Kusuma School of Biological Sciences, Indian Institute of Technology, Delhi
13.	Dr. Urmi Bajpai	Associate Professor	Department of Biomedical Science, Acharya Narendra Dev College, University of Delhi
14.	Ms. Priya Chopra	Post Graduate Alumni Student	Bonn-Cologne Graduate School of Physics and Astronomy (BCGS), Bonn, GERMANY
15.	Mr. Bishal K. Das	Ph.D. scholar	Department of Ecology, Faculty of Environmental Science, Czech University of Life Science, Prague, CZECH REPUBLIC
16.	Prof. Kedar Singh	Dean	School of Physical Science, JNU

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S. No.	Name of guest faculty	Designation	Host Institute
1.	Dr. Dr. S.A. Basir	Psychiatrist	Wellness Hospital, Delhi
2.	Mr. R. Saha	Advisor CII & Former	CII
		Director PFC, TIFAC, DST	
3.	Dr. Debjani De	Principal Scientist, Division	IARI, Pusa, Delhi
		of Entomology	
4.	Dr. Rekha Chaturvedi	IPR Chair Professor	University of Delhi
5.	Ms. Amanpreet Kaur	Project Assistant under IPR	University of Delhi.
		Chair	

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6.	Dr. Rita Singh	Professor	Department of Zoology, University of Delhi
7.	Dr. Mrutyunjay Suar	Director	School of Biotechnology, KIIT University, Odisha
8.	Dr. Sanjeev Kumar Sharma	Senior Manager	Health & Safety, Jubilant Generics Limited
9.	Dr. Vijay Pal Singh	Deputy Director	Food Safety and Standards Authority of India (FSSAI)
10.	Dr. Rup Lal	Professor	Department of Zoology, University of Delhi
11.	Dr. Gagan Dhawan	Assistant Professor	ANDC, University of Delhi
12.	Dr. Sanjukta Subudhi	Scientist	TERI
13.	Dr. Kamal Gupta	Associate Professor	Deshbandhu College, University of Delhi
14.	Dr. Shailja Singh	Associate Professor,	Special Center for Molecular Medicine, Jawaharlal Nehru University
15.	Dr. Kamaraju Raghavendra;,	Deputy Director	National Institute of Malaria Research, Dwarka
16.	Mr Vikas Sachdev	Technical Officer	All India Institute of Medical Sciences
17.	Dr Utkarsh Sood	Director	PhiXGen Pvt. Ltd
18.	Dr Vipin Gupta	Director	PhiXGen Pvt. Ltd
19.	Dr Yogendra Singh	Professor	Dept of Zoology University of Delhi



### **Invited Lectures**

Dr. Ravi Toteja Coordinator and Officiating Principal