

PROF. RAVI TOTEJA | प्रो. रवि टोटेजा

Officiating Principal | कार्यवाहक प्राचार्य



ACHARYA NARENDRA DEV COLLEGE

University of Delhi | NAAC accredited: A Grade

आचार्य नरेंद्र देव कॉलेज

दिल्ली विश्वविद्यालय | एन.ए.ए.सी. मान्यता प्राप्त 'ए' ग्रेड



Supporting document for 3.2.2

Number of Workshops/Seminars/Conference including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

S.No.	Year	No. of Workshop/Seminars/Conferences	Page No.
1.	2017-18	22	1-27
2.	2018-19	49	29-112
3.	2019-20	40	115-219
4.	2020-21	58	220-282
5.	2021-22	87	283-402
TOTAL		256	

Dr. Sada Nand Prasad
Convenor, NAAC
Acharya Narendra Dev College

Prof. Ravi Toteja
Officiating Principal
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3.2.2 Number of Workshops/Seminars/Conference including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

S.No.	Name of the Workshop/ Seminar/Webinar	Date From – To	Page No.
1	Workshop on "Arduino Microcontrollers" (Physics)	April 11-12, 2018	1
2	International Symposium on "Ciliate Biology 2018 " (ISCB 2018) (Zoology)	April 04-06, 2018	2
3	National Symposium on "Contemporary Environmental Concerns – 2018: Awareness, Assessment, Mitigation, Public health and Socio-cultural aspects" (under the aegis of IQAC and Eco-Club 'Paritantra', ANDC) (Botany)	March 15-17, 2018	3
4	Research Based Pedagogy Tools (RBPT) based workshop on "Microbial Techniques" (Botany)	March 12-14, 2018	5
5	Symposium on "Safety Measures and Laboratory Ethics" (under the aegis of Star College Scheme) (Chemistry)	February 21-22, 2018	8
6	Workshop on "Systematic Use of Digital Information in Academic Activities" (under the aegis of Star College Scheme) (Chemistry)	November 10, 2017	9
7	Workshop on "PCR & Southern Blotting" (Zoology)	September 26, 2017	10
8	Workshop on "Anxiety at Workplace" (Zoology)	August 25, 2017	11
9	Workshop on "Introduction to Foss and Linux" (Computer Science)	August 08 - 11, 2017	12
10	Saumya Saxena Memorial Lecture ' The Plants that changed India and the world' (Botany)	March 23, 2018	13
11	1. Breast Cancer: Awareness & Self-assessment 2. Cervical Cancer: Are you secure? 3. Ingenuity in Cancer (Biomedical Sciences)	March 12, 2018	14
12	1. Cloud Computing 2. E-Waste: A challenge of 21st Century (Computer Science)	February 22, 2018	15
13	The Invisible Universe (Physics)	February 22, 2018	16
14	A preface into Wireless Communication Warfare (Electronics)	January 29, 2018	17
15	Environment, Ecology, Ecosystems and Ecological Restoration	January 18, 2018	18

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	(Botany)		
16	Biodiversity and the Need for its Conversation (Botany)	November 2, 2017	21
17	The Trending Economic and Business Related Issues (Commerce)	September 27, 2017	22
18	Applications of Biomedical Imaging in Drug Discovery and Treatment Monitoring (Physics)	September 26, 2017	23
19	Wonders of Pollination at Work (Botany)	September 26, 2017	24
20	Ethical Hacking : A Tool for Cyber Crime Investigation (Computer Science)	September 15, 2017	25
21	Awareness on IPR and Social Insects (Zoology)	September 5, 2017	26
22	Three day National Symposium on Contemporary Environmental Concerns (Chemistry)	March 15-17, 2018	27
23	Workshop on "SPIE Induction" (Electronics)	September 25-26, 2018	29
24	Workshop: Education Conclave 2018 – 'Education deconstructed: A dialogue with experts' (Zoology, Chemistry, Computer Science, Biomedical Sciences, Physics, Electronics, Mathematics)	November 2, 2018	52
25	Workshop: "Butterfly Campus Count" (Chemistry)	September 17, 2018	59
26	Workshop on "Awareness on Digital India Initiative" (Computer Science)	September 18, 2018	60
27	Workshop on "Paradigm Shift in Physics Education through hands-on techniques in Optics" (Physics)	September 5 & 7, 2018	61
28	Workshop on "Awareness on FOSS and LINUX" (Computer Science)	August 28-30, September 4, 2018	62
29	Workshop on "Legal Awareness Program on E-Waste Management" (Chemistry)	August 11, 2018	63
30	Workshop on "Teachers as Mentors" (Chemistry)	October 25, 2018	64
31	Python Workshop: A workshop on 'PYTHON' was organized in association with, industry partner Coding Blocks for the students of Electronics. (Electronics)	April 3, 2019	70
32	Workshop: Hands – on Training of ELISA Technique (Zoology)	February 13, 2019	71
33	Workshop on Foldscope (Biomedical Sciences)	February 2, 2019	72
34	Two-day workshop on "Hands-on to computational biology for (meta) genomic analysis".	April 04-05, 2019	73

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	(Botany, Zoology)		
35	Learning R-programming Skills and Applications to Proteomics (Biomedical Sciences)	March 15-16, 2019	74
36	Fraud, Forgery & Forensics: Examining Handwriting, Fingerprints and Security Documents (Biomedical Sciences)	April 3, 2019	75
37	Mini symposium on International Women's day, 2018 (Zoology)	March 8, 2019	76
38	Interdisciplinary workshop 'Learning Science by Doing Science'. (Botany, Chemistry, Physics, Zoology)	June 18-24, 2019	77
39	Two day faculty development programme on "Physical, Chemical and Biological applications of Surface Plasmon Resonance (SPR)Emotional Intelligence" conducted by ICT Academy. (Computer Science)	April 1-2, 2019	80
40	Physical, Chemical and Biological applications of Surface Plasmon Resonance (SPR) (Physics)	June 19, 2019	83
41	Basics of Stylus profilometry, wafer dicing, mask aligning and wire bonding – Hands-on sessions (Physics)	June 19, 2019	84
42	Basics of Surface Plasmon Resonance (SPR) (Physics)	June 19, 2019	84
43	Connection between Environmental and Human MicroBiome (Zoology)	June 18, 2019	84
44	A talk on Silver Nanoparticles: Biosynthesis Therapeutic Applications (Biomedical Sciences)	March 29, 2019	85
45	Dr. Saumya Saxena Memorial lecture on Bionics and Bionic Engineering: Learning Science from Nature (Botany)	March 26, 2019	86
46	Seminar on Functional Materials for device applications (Physics)	March 15, 2019	87
47	Seminar on MoS ₂ ; A promising 2-D material (Physics)	March 15, 2019	87
48	Seminar on MIMO antennas for 5G and IoT (Physics)	March 15, 2019	87
49	Power of Positive Thinking (Mathematics)	March 13, 2019	88
50	Malaria elimination in India: Role of vector control (Zoology)	February 19, 2019	89
51	Computational Gastronomy (Botany)	February 14, 2019	90
52	Chaos Engineering (Computer Science)	February 15, 2019	91

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53	Tinkering for Scientist (Chemistry)	February 13, 2019	92
54	Career counseling and Future for Chemistry Students (Chemistry)	February 08, 2019	93
55	Top Careers in IT in 21st Century (Computer Science)	February 06, 2019	94
56	Satellite Communication (Electronics)	January 31, 2019	95
57	A talk on Nanotechnology- Applications in Optoelectronics and Renewable Energy (Physics)	January 31, 2019	97
58	Demystifying Myths surrounding Human Health by Science Behind Myths (Biomedical Sciences)	January 31, 2019	98
59	A motivation Talk (Tark Society)	January 24, 2019	99
60	Continuity and Uniform Continuity (Mathematics)	November 01, 2018	100
61	Empower HER stories (Sashakt Society)	October 29, 2018	101
62	e-Health: Exploring it's potential for Healthcare Delivery (Biomedical Sciences)	October 25, 2018	102
63	Interesting advances in Haemoglobin Research: Beyond the textbook (Botany)	October 11, 2018	103
64	A talk on Contemporary Approaches in Anti-Malarial Drug Discovery (Zoology)	October 10, 2018	104
65	Cloud Literacy Day (Computer Science)	October 09, 2018	108
66	Professional conduct with positive attitude (Electronics)	October 04, 2018	109
67	A lecture on 'Current trends in Mobile Application Development' (Electronics)	September 20, 2018	110
68	Turing test to Deep Learning (Computer Science)	September 19, 2018	111
69	Science Setu Biomarkers in Health and Disease (Biomedical Sciences)	August 30, 2018	112
70	Development origins of Health and Disease (Biomedical Sciences)	August 30, 2018	112
71	Skeletal muscle physiology in wellness and being (Biomedical Sciences)	August 30, 2018	112
72	Workshop on "Machine Learning Using Python" (Computer Science)	March 4, 2020	115
73	Workshop on "Arduino" (Electronics)	September 7, 2019	126

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74	Workshop on Raspberry Pi automation system (Electronics)	March 3, 2020	139
75	Workshop on Robotics "Robo Race" (Electronics)	March 3, 2020	140
76	Workshop on Optical Colour Mixing (Electronics)	August 9, 2019	141
77	Workshop on "LabView": Hands-on exposure to Virtual Instrumentation and LabView (Electronics)	June 23, 2020	143
78	Workshop on Learning Science The "Do it Yourself Way" (Botany and Zoology)	July 17, 2019	144
79	Workshop on "Foldscope" on "Unravel the Microbial World" (Botany and Zoology)	September 9, 2019	146
80	Workshop on "Empowering teachers: Current technology based educational contents creation and delivery" (using open source, free software) (Botany and Chemistry)	December 02- 06, 2019	147
81	Workshop on "Linux and FOSS" (Computer Science)	September 16, 2019	155
82	Workshop on "Surface Plasmon Resonance (SPR) and UV-Visible Spectroscopy: Basic working principle and Environmental Applications" (Botany and Physics)	August 23, 2019	156
83	Workshop "Learning Molecular Biology Techniques" (Biomedical Sciences and Zoology)	September 24, 2019	157
84	Workshop on "Molecular Biology Techniques" (Biomedical Sciences and Zoology)	November 22, 2019	158
85	Workshop on "Techniques in Molecular Microbiology" (Biomedical Sciences and Zoology)	February 25, 2020	193
86	Workshop on "Usage of google conferencing tools" (Biomedical Sciences)	June 12, 2020	194
87	One Day Interdisciplinary Exhibit Presentation New Frontiers in Science (Biomedical Sciences, Chemistry, Computer Science, Electronics, Physics, Zoology)	October 22, 2019	195
88	Invited Talk on "Autonomous Navigation with Intelligent Camera for Space and Earth" (Physics)	October 15, 2019	196
89	Technical Talk on "IOT and Connectivity Solution" (Electronics)	March 3, 2020	197
90	Lecture on "Biomedical Research in India: from a Rat Race to Taking-up the Real Challenge of Combating Disease" (Botany)	September 25, 2019	198
91	Bio Prospecting: "A Path from Ecology to Entrepreneurship"	September 25, 2019	198

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	(Botany)		
92	Lecture on "Hitchhikers guide to Integrative System Biology" (Botany)	February 25, 2019	199
93	Lets Talk Session on "Stock Markets" (Commerce)	January 17, 2020	200
94	Webinar on Mycobacteriophages: Diversity, Dynamics and Therapy (Biomedical Sciences)	June 17, 2020	201
95	Webinar on Deciphering the language of DNA (Biomedical Sciences)	May 15, 2020	202
96	Webinar on COVID 19- Truths and Myths (Biomedical Sciences)	June 9, 2020	203
97	Webinar on Our Environment and COVID-19 (Biomedical Sciences and Chemistry)	June 5, 2020	204
98	Technical Talk on System Automation and HA Clustering (Computer Sciences)	November 7, 2019	205
99	Webinar on Unravelling The Social Network Of Covid-19 In India (Computer Sciences)	June 15, 2020	206
100	Webinar: "The Growth of Linnean thought: Impact of common descent and current understanding" (Zoology)	May 11, 2020	207
101	Covid 19 Impact: Strategies for Education and Challenges in Virtual Learning' (Chemistry)	May 20, 2020	208
102	Materials for Future Generation Photovoltaic Solar Cells (Physics)	March 5, 2020	209
103	Science Setu, Typhoid Diagnostics, Innovation in Diagnostics (Biomedical Sciences)	February 25, 2020	210
104	Do I see myself doing science (Physics)	January 9, 2020	211
105	Seminar on Intellectual Property Rights (IPR) Patents (Chemistry)	November 7, 2019	212
106	Quartz Crystal Microbalance (QCM) for environmental monitoring and gas detection (Physics)	September 12, 2019	214
107	Unravel the Microbial World (Zoology)	September 9, 2020	215
108	Protecting wildscapes in Contemporary India (Zoology)	August 30, 2019	216
109	BMS Alumni Lecture Series: An Interactive Session on Science Communication (Biomedical Sciences)	August 28, 2019	217
110	BMS Alumni Lecture Series: An interactive session on - Transition from a "Cancer Researcher" to an "Engineer"	August 14, 2019	218

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	and finally a "Manufacturer-Salesman" (Biomedical Sciences)		
111	An interactive session on Drug Discovery against MDR Microbes (Biomedical Sciences)	August 14, 2019	219
112	Symposium on "Noise pollution a cannonade on living organisms! How to take the edge off it?" under the aegis of Eco Club (Biomedical Sciences & Chemistry)	April 10, 2021	220
113	A five day workshop on "Hybrid Mobile App development using Flutter programming" (Electronics)	July 13-17, 2020	221
114	Workshop on "Data Science with Python" Under the aegis of DBT star College Scheme (Electronics)	March 3-7, 2021	222
115	Two week (online) Interdisciplinary FDP on "From Research to Publication" jointly organized by Department of Commerce, Acharya Narendra Dev College and Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi (Commerce)	April 5-17, 2021	223
116	Workshop on "Hands on training for skill development" (Chemistry)	March 1-2, 2021	228
117	Three days online hands-on workshop on "Advanced Bioinformatics", on topic "A step-by step guide to Data mining from literature to pathways" by Dr. Srinivasan Ramachandran Senior Principal Scientist CSIR-IGIB (Biomedical Sciences,Botany&Zoology)	March 1-3, 2021	229
118	Two Week Online National Workshop on "Tools and Techniques in Statistical Analysis" (Biomedical Sciences,Botany,Mathematics,Zoology)	April 06-19, 2021	230
119	Five day RBPT based workshop on "Bioinformatics for Undergraduate students" (Biomedical Sciences,Botany,Zoology)	January 9-13, 2021	233
120	An online E-workshop on "Tax Regime: Old vs New" was organised by IQAC cell of ANDC (Biomedical Sciences)	February 16, 2021	234
121	Online workshop on "Python coding workshop for biologists" by Ms Shruti Gupta and Mr Alok Anand, Jawaharlal Nehru University. November 2020. (weekends, 20 hour) (Biomedical Sciences)	November 20, 2020	235
122	One day workshop on "Google classroom" under the aegis of DBT Star Scheme (Computer Sciences)	November 27, 2020	236
123	Workshop on "E-Filing of ITR 1", Bodhini, Academic Events and Research Committee, Department of	November 10, 2020	237

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	Commerce, Acharya Narendra Dev College (Commerce)		
124	Invited Talk : Invited Talk on Creative Thinking and Entrepreneurial Skills by Dr. Ravinder Kaur, Associate Professor, Deptt. Of Electronics, Deen Dayal Upadhaya College, Delhi University	June 23, 2021	238
125	Organised talk under the first series "In Conversation with our Alumni" on "Early Investment- Secured Future" (Commerce)	January 28, 2021	239
126	Webinar on "An Overview of Indian Contract Act, 1872" (Commerce)	January 16, 2021	240
127	Webinar on "How to Publish Research Papers in Scopus/ Indexed Journals?" (Commerce)	December 12, 2020	241
128	Webinar on "The Flying Jewels" on "The Big Butterfly Month" (Biomedical Sciences)	September 18, 2020	242
129	Webinar on "Insurance for Youth" (Commerce)	November 6, 2020	243
130	Webinar on 'Top Trends Driving Digital Marketing Strategy' (Commerce)	October 9, 2020	244
131	Webinar on 'Stop Worrying and Start Living and Earning': Career Vs Job: Road Map (Commerce)	August 27, 2020	245
132	Dr. Saumya saxena Memorial Lecture on Matrix of Multicellular Life: How cell adhesion regulates cell function ; by Dr. Balasubramanian Nagaraj (IISER, Pune) (Botany)	July 16, 2020	246
133	Webinar on "Humans for Nature" (Botany)	October 15, 2020	247
134	Saumya Memorial lecture entitled 'Arbuscular Mycorrhizal Fungi: true friends of plants' by Prof. Roopam Kapoor, University of Delhi (Botany)	March 23, 2021	248
135	TARUMITRA-The Botanical Society organized lecture on"Cultivation of edible mushroom:Pleurotus species by Prof. Rajni Gupta Department of Botany Kirori Mal College University of Delhi (Botany)	June 17, 2021	249
136	TARUMITRA-The Botanical Society organized lecture on" From mycorrhizosphere to rhizosphere microbiome: The beautiful journey by Prof. Manju M. Gupta, Sri Aurobindo College, University of Delhi (Botany)	June 23, 2021	250
137	Webinar on "Open Licensing and Online Content" (Zoology)	September 25, 2020	251
138	Webinar on "Knowing the unknown: Approaches to	October 1, 2020	252

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	characterize the uncharacterized proteome of bacteriophages" by Prof B.N.Tripathi, Deputy Director-General, Animal Science, ICAR HQ, New Delhi and Dr Juliannae H. Grose, Associate Professor, Brigham Young University, USA (Biomedical Sciences)		
139	Webinar on "Phage Directory: Making the world's phages more accessible, manageable and shareable" by Dr Jessica Sacher and Mr Jan Jhang, Co-Founders, Phage Directory USA (Biomedical Sciences)	September 3, 2020	253
140	Seminar on "Using phages to combat AMR: Scientific capacity building through laboratory training workshops" by Dr. Tobi Nagel, Founder & President of Phages for Global Health, USA and Dr. Janet Nale, Research Associate, Department of Infection, Immunity and Inflammation, University of Leicester, UK (Biomedical Sciences)	August 14, 2020	254
141	'Career in Indian Forest Service: A session with IFS officers' (Biomedical Sciences, Botany & Zoology)	April 18, 2021	255
142	Career counselling series: Career in Forensic Science: An Interaction with Seniors (Biomedical Sciences, Botany & Zoology)	March 20, 2021	256
143	Career counselling series: Studying in Europe: Interaction with seniors (Biomedical Sciences, Botany & Zoology)	March 14, 2021	257
144	Career counselling series (Career after MBA: Exploring the unexplored) (Biomedical Sciences, Botany & Zoology)	March 7, 2021	258
145	Webinar on "From discovery to high-throughput engineering of phage lysins targeting Gram-negative bacteria" (Biomedical Sciences)	July 9, 2020	259
146	Webinar on "Vaccines for COVID-19 and the way ahead" (Biomedical Sciences)	January 21, 2021	260
147	Webinar on "Challenges in commercially developing phage therapy to target drug-resistant bacteria" (Biomedical Sciences)	January 27, 2021	261
148	Webinar on "Lesson learned from COVID 19" (Biomedical Sciences)	January 21, 2021	262
149	Webinar on "Genomic annotation and comparative bioinformatic analysis of action-bacteriophages" (Biomedical Sciences)	February 16, 2021	263
150	Webinar on "Phage genome annotation: the right way and/or the easy way" (Biomedical Sciences)	March 2, 2021	264

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151	IBRC-Phage Directory webinar series on Phage Bioinformatics: Tailored Medicine: Bioinformatic analysis of bacteriophages for therapeutic use lessons learned from single patient cases (Biomedical Sciences)	March 30, 2021	265
152	Webinar on "Flow cytometric approach to understanding disease biology" (Biomedical Sciences, Botany & Zoology)	March 17, 2021	266
153	Webinar on "Complexity of immune response in Covid19" (Biomedical Sciences, Botany & Zoology)	March 17, 2021	266
154	Webinar on "Vaccine development for respiratory viruses: Past & Future" (Biomedical Sciences, Botany & Zoology)	March 17, 2021	266
155	Webinar on "Virology: Importance in human health management, scope & prospects" (Biomedical Sciences, Botany & Zoology)	March 17, 2021	266
156	Webinar on "Education : The Key to Development of NE States of India" (North East Association)	June 28, 2021	268
157	Webinar on "Managing Life in COVID Times: Yoga Shows the Way" (Sashakt)	May 29, 2021	269
158	Webinar on 'Introduction to digital forensics and electronic evidences' (Biomedical Sciences)	April 3, 2021	270
159	Webinar on BRC-Phage Directory webinar series on 'Phage Bioinformatics: Phage genome annotation pipelines in CPT Galaxy and WebApollo' (Biomedical Sciences)	April 7, 2021	271
160	Webinar on How Noise Pollution is Affecting Human Health (Biomedical Sciences & Chemistry)	April 10, 2021	272
161	Webinar on "One week e-Green Summit" (Biomedical Sciences)	November 8-13, 2020	273
162	Webinar on 'Mera Sangharsh, Meri Jeet, Meri Kahani' Cancer Survivors sharing their Journey (the actual stories of Breast Cancer Viranis) (Biomedical Sciences & Chemistry)	October 23, 2020	274
163	Webinar on "Vande Matram Talk Series 2" (Biomedical Sciences)	October 9, 2020	276
164	Webinar on "NEP 2020" with NSS unit of the College for UBA and NSS (Chemistry)	September 21, 2020	277
165	Webinar on "Evolution as Darwin knew as a child" (Zoology)	May 22, 2021	278
166	Webinar on "Yoga Asana & Meditation to Boost	July 21, 2020	279

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	Immunity" (Zoology)		
167	Webinar on "Menstrual Hygiene, in collaboration with UNICHARM" (Sashakt Society)	July 13, 2020	280
168	"Thalassemia Screening and Awareness Program" (Biomedical Sciences)	April 9, 2021	281
169	Career Opportunities After Graduation (Chemistry)	November 12, 2020	282
170	Symposium on "Phage Lysins: Promising alternatives to antibiotics" (Biomedical Science)	July 9, 2021	283
171	Workshop on "Initiating Virtual labs @ ANDC (Zoology, Botany)	August 24, 2021	284
172	Workshop on "Effective Presentation & Image Management for Success" (Computer Science)	August 24-25, 2021	285
173	Hands-on workshop on "Biological Techniques" (Zoology)	September 27- October 04, 2021	287
174	Workshop on "Basics of Photoshop" (Chemistry)	September 30- October 01, 2021	290
175	Workshop on "Front End Web UI Frameworks Overview: Bootstrap" (Computer Science)	October 02-03, 2021	291
176	Hands-on workshop on "Computational Chemistry: A New Approach to Understanding & Solving Chemical Problems" (Chemistry)	October 06-07, 2021	293
177	Workshop on "HTML: A Prerequisite for MERN Stack" (Computer Science)	October 06-07, 2021	294
178	Workshop on "A First Step Towards Developing Virtual Lab Using MERN Stack" (Computer Science)	October 09-24, 2021	296
179	Hands-on-Workshop on 'Laboratory techniques in Botany' (Botany)	October 19-23, 2021	298
180	Workshop (Virtual) on "Flow cytometry and qPCR-based Blood Analyses" (Biomedical Science)	October 20-24, 2021	299
181	Hands-on workshop on "Digital Systems and Applications with Microprocessors and trollers (Physics)	October 20-27, 2021	305
182	Workshop on "Analytical Laboratory techniques"	October 25 -29, 2021	306


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	(Chemistry)		
183	Workshop on "Face recognition using Python" (Computer Science)	October 26-30, 2021	307
184	Hands-on Workshop on "Modern Physics" (Physics)	November 10-17, 2021	309
185	Workshop on "Computational Biology for metagenomics" (Zoology)	November 14, 2021	310
186	Workshop on "Art of Scientific Writing and Communication" (Zoology)	November 15, 2021	311
187	Workshop on V-Lab Development Bootcamp 1.0 (Zoology, Chemistry, Physics, Botany, EVS)	January 17-22, 2022	312
188	Workshop on "Ace Canva" (Commerce)	February 04-06, 2022	314
189	Workshop on "Full Stack Web Development using MERN" (Electronics)	March 05-09, 2022	315
190	Workshop on "Ace Excel" (Commerce)	March 07-09, 2022	316
191	Hands-on workshop (online mode) on "Exploring and Understanding Computational Chemistry Using Gaussian: Molecular Builder and Visualization Tool" (Chemistry)	March 07-10, 2022	317
192	Workshop on "Let's Talk DevOps" (Computer Science)	March 11-13, 2022	318
193	Workshop on "Holography" (Electronics)	March 14, 2022	320
194	Training Workshop and demonstration of lab Equipment (Electronics)	March 23, 2022	321
195	Hands-on Workshop on "Arduino and Sensor Interfacing" (Electronics)	March 26, 2022	322
196	Workshop on "Ace Google" (Commerce)	April 06-08, 2022	323
197	Hands-on workshop on "Tools and Techniques of Biotechnology" (Zoology)	April 07-08, 2022	324
198	Workshop for Non-teaching Staff on "The calibration and standardization of laboratory equipment and glassware" (Chemistry)	April 20, 2022	329
199	Workshop on "Application of Cost Accounting Standards in the Preparation of Cost Statement" (Commerce)	April 20, 2022	330
200	Workshop on "Tools in Modern Biology"	April 21, 2022	331

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	(Biomedical Science)		
201	Workshop on "Introduction to New Experiments" (Chemistry)	April 21, 2022	332
202	Hands-on Training for Support Staff on "Tools in Modern Biology" (Zoology)	April 21, 2022	333
203	Workshop and demonstration of "Control Lab with software and data acquisition and Universal Dev Board with FPGA and CPLD" (Electronics)	April 25, 2022	334
204	Workshop for the non-teaching staff on "Tools in Modern Biology" (Botany)	April 26, 2022	335
205	Workshop on V-Lab Development Bootcamp 2.0 (Zoology, Botany, EVS)	June 27-July 01, 2022	336
206	Digital Transformation and it's impact on the future after Covid-19 (Electronics)	July 07, 2021	337
207	An introduction to astronomical observations (Physics)	March 29, 2022	338
208	Alumni series on "career options after graduation" (Commerce)	April 01, 2022	350
209	Kitchen is your Health tool (Biomedical Science)	April 18, 2022	351
210	Ethics to Paper writing (Chemistry)	April 19, 2022	353
211	Magnetic Nano-structures based Microwave monolithic signal processing devices: Fabrication and testing (Electronics)	April 19, 2022	354
212	Menstrual Health and Hygiene (Botany)	June 22, 2022	355
213	Webinar on Environmental Hazards of e-waste and Plastic waste (Botany, Biomedical Science, Zoology)	July 31, 2021	356
214	e- resources of Delhi University and infolibnetNList (Chemistry)	July 31, 2021	357
215	An Insight into Currency Derivatives (Commerce)	September 11, 2021	358
216	Effects of Good Ozone and Bad Ozone on Human (Eco Club)	September 16, 2021	359
217	MICROSPHERE 2021: An International outreach program to promote microbial literacy and celebrating the diversity and wide applications of microbes (AND College in collaboration)	September 17, 2021	360
218	Explainable AI (Computer Science)	October 4, 2021	362


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219	Predictive Modeling using Python (Computer Science)	October 8, 2021	363
220	Career Opportunities in MNCs (Commerce)	October 9, 2021	364
221	Lecture series (online mode) of "Journey of an Alumni" Journey of an Alumni Episode -1 The Rise (Chemistry)	October 16, 2021	365
222	Lecture series (online mode) of "Journey of an Alumni" Journey of an Alumni Episode -2 The Rise (Chemistry)	October 22, 2021	367
223	Biodiversity Conservation as if people and ecosystem matter (Botany)	October 28, 2021	368
224	Lecture series (online mode) of "Journey of an Alumni" Journey of an Alumni Episode -3 The Rise (Chemistry)	30-Oct-21	369
225	National Seminar on "Vigilance, Corruption and Transparency in Governance - A Reassessment" (Biomedical Science)	November 1, 2021	370
226	Annual International E-Conference of Indian Network for Soil Contamination Research on Microbes in Sustainable Development (Zoology, Botany)	November 15-18, 2021	376
227	Lecture series (online mode) of "Journey of an Alumni" Journey of an Alumni Episode -4 The Rise (Chemistry)	November 26, 2021	377
228	Lecture series (online mode) of "Journey of an Alumni" Journey of an Alumni Episode -5 The Rise (Chemistry)	December 10, 2021	378
229	License and Copyright Considerations in E-content Development (Zoology)	December 17, 2021	379
230	IP Awareness/Training Program under the National Intellectual Property Awareness Mission by the Intellectual Property Office, India (Zoology)	December 29, 2021	381
231	Why Him, Why Not Her (Sashakt)	January 24, 2022	382
232	Career Opportunities in Publishing (SPIE Student Chapter)	February 4, 2022	383
233	Introduction to BioNEST- UDSC and Bio entrepreneurship (Biomedical Science)	February 15, 2022	384
234	Environmental mitigation through biological approaches (Zoology)	February 22, 2022	385

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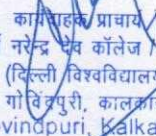
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235	Anthropocene: A misplaced trust in Ecological Utopia (Zoology)	February 22, 2022	385
236	The Role of the 2D materials for sustainable Growth and Future Optoelectronic Device Applications for environment (Physics)	February 22, 2022	385
237	Low temperature operated efficient NO ₂ gas sensors for environmental monitoring (Physics)	February 22, 2022	385
238	Syzygy or Sisyphus: The Future of Environmental Policy Making (Zoology)	February 22, 2022	385
239	Overcoming challenges in the sustainable remediation of Hexachlorocyclohexane (HCH) dumpsite soils (Zoology)	February 22, 2022	385
240	Ecosystem Restoration – Certain key approaches, principles and interventions (Zoology)	February 23, 2022	385
241	Zero Hunger and climate mitigation: Constraints and possibilities (Zoology)	February 23, 2022	385
242	Engagement of citizens in co-designing citizen science studies in environmental epidemiology: opportunities and challenges (Physics)	February 24, 2022	385
243	Criteria for Identifying Coastal & Marine Eco Sensitive Areas: A Revisit (Zoology)	February 24, 2022	385
244	Mangrove plantation activities in Kachchh, Gujarat (Zoology)	February 24, 2022	385
245	Identification and monitoring of ciliated key protists in aquatic environments in the light of a sustainable environmental approach (Zoology)	February 25, 2022	385
246	Hot springs located Atop the Himalayan Ranges at Manikaran and KheerGanga in Himachal Pradesh, India : Potential Sources of Microbial Diversity and Thermostable Enzymes (Zoology)	February 25, 2022	385
247	In ₂ Se ₃ thin films based high performance selfpowered UV photodetector for environmental applications (Physics)	February 25, 2022	385
248	Using biodiversity models to support the nature-	February 26, 2022	385


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	positive transition (Zoology)		
249	Incubating Ideas to Build Sustainable Environmental Technologies (Zoology)	February 26, 2022	385
250	The role of genomics in resolving classification anomalies of bacterial genera (Zoology)	February 26, 2022	385
251	Health care sustainability (Zoology)	February 27, 2022	385
252	Nourish Ecosystems, Nurture Biodiversity, Enable Food and Enhance Resilience – Integrating Nature's potential (Zoology)	February 28, 2022	385
253	Wireless Security Network (Computer Science)	March 4, 2022	397
254	Energy Work to Declutter and Re-energize (Sashakt)	March 8, 2022	400
255	Challenges and strategic solutions for breaking the bias for better nutrition and health outcomes (Botany)	March 8, 2022	400
256	Dr Saumya Saxena Memorial talk on 'Biomarker Discovery for Cardiovascular Diseases using Multi Omics Approaches' (Botany)	March 23, 2022	402


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Hands – on workshop on

ARDUINO

Basic Programming & Applications
[under the aegis DBT STAR College scheme]

11 – 12 April 2018

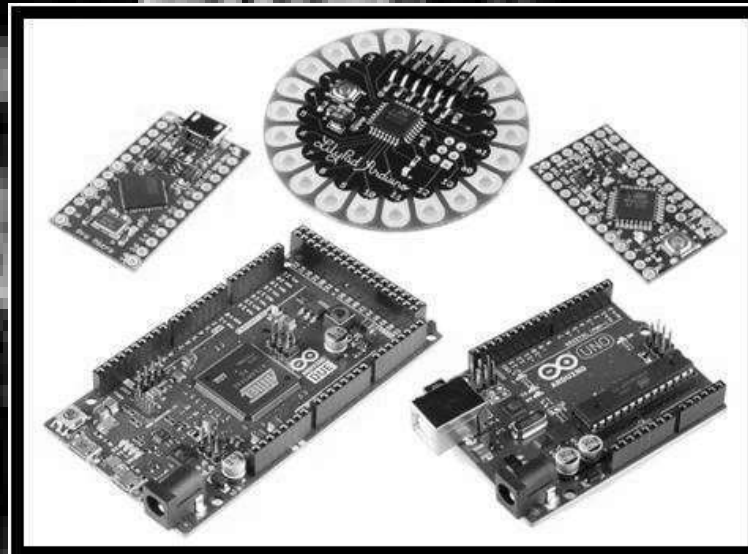
Onsite registration Fee – Rs. 350/-
Limited seats – 20 (first come first serve basis)
Lunch and tea will be provided
Workshop begins at 8:45 a.m.

Requisites

- Bring your own laptop (Linux/Windows)
- Active participation on both days
- USB pen drive for softwares (> 1 GB)

Deliverables

- Certificate of participation
- Free software
- Hands-on Arduino Uno
- Hard-copy manual



Convener
Dr. Arijit Chowdhuri

Student Coordinator
Jatinder Pal Singh
8745006080

Coordinator
Dr. V. Bhasker Raj

Student Coordinator
Priya Chopra
9891277465

organized by - Department of Physics
Acharya Narendra Dev College, (University of Delhi)
Govindpuri, Kalkaji, New Delhi - 110 019



Prof. M.L. Bhatia
(1896-1990)



Prof. BR Seshachar



Prof. CMS Dass



Prof. DM Saxena



Prof. GR Sapra

International Symposium on Ciliate Biology 2018

Prof Ravi Chaturvedi

On the eve of International Symposium on Ciliate Biology organized at the India Habitat Centre in New Delhi recently, I came across an appealing quote of Francis Bacon (an English philosopher, statesman, scientist, jurist, orator, and author who served both as Attorney General and as Lord Chancellor of England), "Reading maketh a full man; conference a ready man; and writing an exact man." The aim of holding of the above mentioned symposium was to put on platform a new generation of Ciliate Biologists.

India has been bidding for various sports events (Asian Games, Commonwealth Games and Cricket World Cups, Hockey World Cup, FIFA Junior World Cup, shooting World Championship, World Chess Championship etc.) and social event - beauty pageant 46th Miss World contest held at the Chinnaswamy Stadium, Bangalore in 1996. It was a different story at Moscow in 2016 where top Ciliate Protozoologists (first group of animals) were holding their biannual international symposium on the subject. The Delhi University colleges Indian Protozoologists quartet of Drs. Komal Kamra, Renu Gupta, Seema Makhija and Ravi Toteja threw the gauntlet in the ring and won hands down the right to host the next International Ciliate Symposium at New Delhi in 2018.

It was a herculean task to hold a symposium of international echelon. It involved not only academic inputs of high quality and also lot of infrastructure. Nevertheless, there was a bigger perception in holding the International Ciliate Symposium in India. The main aim was to provide platform to the

researchers involved in their field to present their research findings before the international Protozoology community and expose the under graduates to the subject on a bigger canvas to attract them to take up career in this discipline of Zoology. Three colleges of the University of Delhi - Acharya Narendra Dev, Maitreyi and SGTB Khalsa led by their Principals Dr. Savitri Singh, Dr. Haritma Chopra and Dr. Jaswinder Singh, particularly the last one played a pivotal role in providing logistic support amply for the smooth run of the symposium. The symposium was result of synergy with International Research Coordination Network for Biodiversity of Ciliates (IRCNC-BC), an affiliate society of International Society of Protistologists (ISOP). The financial support at international level came from the ISOP while Indian agencies DST, DBT, INSA, UGC and ZSI provided a part of the monetary support.

It is pertinent to point out that the Ciliates (unlike bacteria) are easy to culture, handle and manipulate makes them an ideal group of organisms for research. The other important feature in their favour for research is their genome being closer to humans. Secondly, the Indian ciliate diversity has not been fully worked out as yet. Lastly ciliates are important component of ecosystem and food chain on which pisciculture industry thrives. Finally, while thriving in the polluted water bodies, the ill effects of chemicals from agriculture and industry can easily be detected through ciliate research.

The delegates were welcomed in most apt words, "Let us heartily welcome you to the International Symposium on Ciliate Biology and wish



Dr. Mahesh Sharma, Minister for Environment & Earth Science inaugurated the symposium with organizing committee.



Delegates & participants during the closing ceremony

you successful deliberations. It is our pleasure, one more time, to say Thank you and welcome in igbomina (Nigeria) dialect and in our own dialect **ShubhSwagatam**. We greet and welcome you once again".

Dr. Mahesh Sharma, Minister of State, Tourism (independent charge) and MoS, Ministry of Environment, Forest and Climate Change, graced the inaugural function. He emphasised the role of Ciliates in environment at microscopic level and lauded the efforts of the organisers in winning over the rights to host the symposium. At the end, Prof. Chandrima Shaha, Vice President (Foreign Affairs), Indian Academy of Sciences was the chief guest at the valedictory function. Dr. Jaswinder Singh complimented the organisers for the smooth conduct of the

symposium, thanked the foreign Protistologists and commended the holistic involvement of the students in the venture.

A large contingent of national ciliate biologists was joined by nine foreign scientists to deliver 20 oral and 57 poster presentations were made by the student participants. The specializations covered gambits from biodiversity to ecology, evolution, role of ciliates in the food web of soil and water, indicators of pollution, and in bioremediation fields. The use of ciliates in teaching and research was highlighted by the presenters.

The biggest gain of the symposium was the founding of the Indian Ciliate Biologists forum to coordinate activities of the researchers in the field and collaborate their research activities with the overseas laboratories. The ZSI has come forward to publish the

symposium proceedings as a book with ISBN listing.

In retrospect, the research activities initiated by Prof. M.L. Bhatia (Zoology Department Founder), carried to new heights by Profs. BR Seshachar, CMS Dass, DM Saxena, GR Sapra and their legacy continues to flourish due to sustained efforts of the present generation of their student researchers is indeed commendable and most befitting tribute to their teachers. The baton has been passed on to the new generation of researchers to lead bequeathed research wealth to grandeur and glory.

The dream of holding symposium would not have become a reality but for the advisors of the event, Dr. Alan, Warren (NHM, UK), Prof. Cristina Miceli (Camerino, Italy), Prof. GR Sapra, Prof. Rup Lal, author and members of the national organizing committee.



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(University of Delhi)

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Page No. 3

under the aegis of
Internal Quality Assurance Cell
& Eco-Club 'Paritantra'

Organises
National Symposium on



CONTEMPORARY ENVIRONMENTAL CONCERNS 2018

MARCH 15-17, 2018

EVENTS

**ORAL AND POSTER
PRESENTATION**

TOPICS

- *Mitigation of environmental problems.
- *Exposure-response assessment of environmental problems

SUBMIT AT:

cec2018@andc.du.ac.in

**LAST DATE OF
ABSTRACT SUBMISSION
MARCH 10, 2018**

*Selected Papers will be published in
UGC approved Journal with ISSN number.*

PRIZES WORTH

₹ 20,000

VENUE:

CONFERENCE HALL

ACHARYA NARENDRA DEV COLLEGE

REGISTRATION

FEE

STUDENTS

₹500

RESEARCH SCHOLARS

₹1000

FACULTY

₹1500

INDUSTRY PERSON

₹ 2500

REGISTER AT:

<http://andcollege.du.ac.in>

LAST DATE OF REGISTRATION: MARCH 12, 2018

Patron Dr. Savithri Singh Principal	Convenor Dr. Seema Gupta 9811357733	Coordinators Dr. Pooja Bhagat Dr. Gagan Dhawan	Organising Secretaries Dr. Charu Khosla Gupta Dr. Arijit Chowdhuri
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Page No. 3

Symposium on Contemporary Environmental Concerns – 2018

Awareness, Assessment, Mitigation, Public health and Socio-cultural aspects
(under the aegis of IQAC and Eco-Club *Paritantra*, ANDC)

15 – 17 March 2018

Acharya Narendra Dev College (University of Delhi)

Govindpuri, Kalkaji, New Delhi – 110 019, INDIA

Patron

Savithri Singh
Principal

Convenor

Seema Gupta

Coordinators

Gagan Dhawan
Pooja Bhagat

Organizing Secretaries

Charu K Gupta
Arijit Chowdhuri

Important Dates

Abstract Submission
10 March 2018

Abstract Acceptance
11 March 2018

Last date of registration
12 March 2018

Venue

Conference Centre,
Acharya Narendra
Dev College

Secretariat

cec2018@andc.du.
ac.in

A clean environment is considered to be a basic requirement for human health and is included by United Nations as one of the Sustainable Development Goals, in particular SDG 11 (UN, 2015). Scientific findings indicate urgent need to undertake pre-emptive action as a panacea to control this gigantic problem. Hence, there arises a need to expose students to a) Mitigation and b) Exposure-Response assessments in curbing environmental degradation at the grass-root level. National Symposium on Contemporary Environmental Concerns – 2018 at Acharya Narendra Dev College envisages providing a platform to encourage students help establish a connection between generation of environmental pollution and practical ways in mitigation of the same.

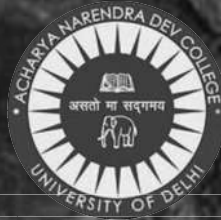
Contemporary Environmental Concerns 2018 Salient features

- Popular Science talks by eminent speakers
- Competitive Oral presentations and Poster Sessions for students
- Prizes totalling Rs. 20,000/- for best Oral and Poster presentations

Registration Fee

- | | |
|---------------------------|------------------------------|
| a) UG students: Rs. 500/- | b) Research Scholars: 1000/- |
| c) Faculty: Rs. 1500/- | d) Industry: 2500/- |

Abstracts are invited from students and scholars for oral and poster presentations, in the broad topic areas related to a) Mitigation and b) Exposure-Response to environmental problems. Maximum two students are allowed per poster. Abstract submission details and Registration forms are available on the college website – <http://andcollege.du.ac.in>. Abstract(s) and Registration form should be sent as attachment in document format by e-mail to: cec2018@andc.du.ac.in. Selected full-length papers will be published in Proceedings with ISSN/ISBN numbers (at extra charge)



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MICROBIAL TECHNIQUES

RBPT based Workshop

Patron: Dr Savithri Singh, Principal
Convenor: Dr Rashmi Sharma

For Queries Contact
Dr Rashmi Sharma
9810709706

12-14

**MARCH
2018**

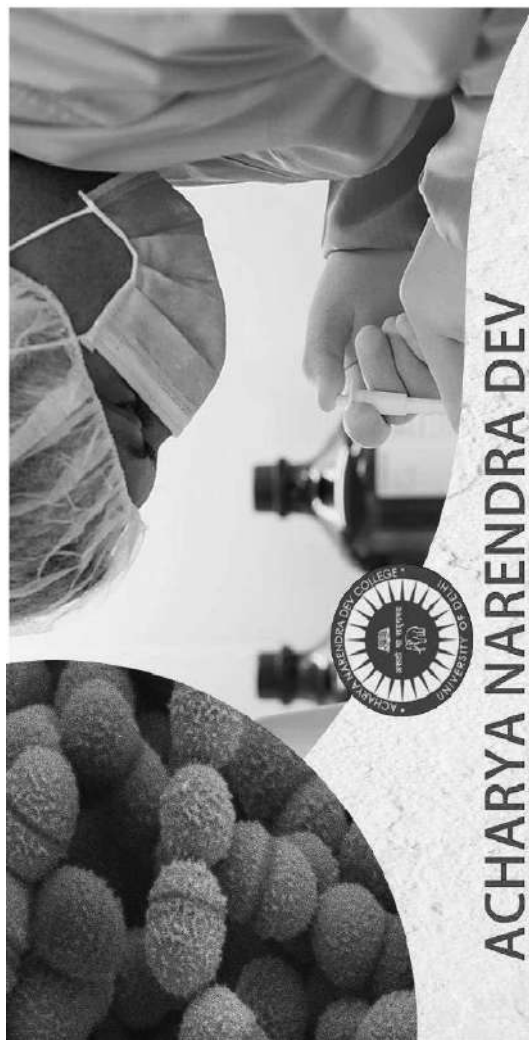
9:00 a.m.

**onwards,
Department
of Botany**

To find out more visit:
<http://andcollege.du.ac.in>



**TARUMITRA
THE BOTANICAL SOCIETY**
Under the aegis of DBT Star College Scheme



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MICROBIAL TECHNIQUES

RBPT based workshop

To find out more visit:
<http://andcollege.du.ac.in>



Organized by

**TARUMITRA
THE BOTANICAL SOCIETY**

Under the aegis of DBT Star College Scheme

12-14
March
2018
9.00 a.m.
onwards,
Department
of Botany



Patron
Dr. Savithri Singh,
Principal, ANDC



Convenor

Dr. Rashmi Sharma

Co-Convenor

Dr. Anita Narang
Teacher In-Charge, Department of Botany, ANDC



A Talk on "Innovation in Science"
Professor Pawan Kumar Dhar
Dean, School of Biotechnology,
Jawahar Lal Nehru University



**MICROBIAL
TECHNIQUES
WORKSHOP**
12-14th
MARCH
2018
9.00 a.m.
ONWARDS,
DEPARTMENT
OF
BOTANY

For Queries Contact: Dr Rashmi Sharma 9810709706

Objective and Scope

The Primary objective of the workshop is to gain the insight of various basic techniques used in microbial laboratory by hands-on training and practical demonstrations. The workshop will provide the right exposure to the students at the undergraduate level and it is highly relevant in terms of advances in the contemporary era of microbial biotechnology. It's also a rare opportunity for students from non-biological courses to join in and gain hands on insight into the world of bacteria!

Focus Area

In addition to their multifarious roles 'bacteria' are an ideal candidate for genetic engineering. They are relatively simple, single celled organisms with DNA not bound in any organelle. Available as an inexhaustible supply, they are easy to reproduce and so can be manipulated under laboratory conditions. The workshop will provide up-to-date knowledge in the field of practical microbiology with special reference to bacteria. It will encompass the basics of the laboratory techniques starting with setting up a bacterial culture up to bacterial transformation.

Topics to be covered

- Introduction to microbiological lab-work: Sterilization, disinfecting steps and instruments/ equipment used for microbial culture
- Nutrient media: Different types and preparation
- Bacterial culture: Basis of characterisation, classification and identification of bacteria, streaking, plating, incubation, evaluation of culture and storage of culture
- Bacterial Transformation: Preparation of competent cell, transformation by heat shock method followed by blue white screening to identify putative transformants.
- Application in genomics, industry
- Plasmid DNA isolation



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REGISTRATION FORM

LIMITED SEATS

NAME:

Name and Address of Institution/College :

.....

M/F: Course.....

Contact Number:

E-mail ID:

Signature: Signature of IIC

Payment Details

UTR No./ Transfer ID

Transfer Date:

Remitter Bank Name/Branch

Amount: ₹500/-

NEFT /Online Banking Details:

Beneficiary Name: Acharya Narendra Dev College
Bank: Punjab National Bank, Krishna Market , Kalkaji, New Delhi-110019
IFSC code: PUNB0015600 Account Number: 0156000100399145

Last date for Registration: 1st March 2018

Note: From each college/institution only 5 students are allowed after written permission of their respective Teacher-in charge





ACHARYA NARENDRA DEV COLLEGE

(UNIVERSITY OF DELHI)
DEPARTMENT OF ZOOLOGY & CHEMISTRY
(UNDER STAR COLLEGE SCHEME, DBT)

Two Day Symposium on Safety Measures & Laboratory Ethics February 21-22, 2018

Patron

Dr. Savithri Singh
Principal

Star College Scheme Coordinator

Dr. Ravi Toteja

Organizing Committee

Dr. Seema Gupta

9811357733

Dr. Seema Makhija

9136563762

Dr. Pooja Bhagat

Dr. Pankaj Khanna

Dr. Sweety Shrimali

Dr. Aparna Sharma

Dr. Anjali Saxena

Dr. Pragati Mailk

Dr. K Cherita Devi

Highlights

- Biosafety management
- Risk assessment
- Work practices and safety equipment
- Handling hazardous chemicals
- Relevance of ethics to science students

Benefits

- The participants will be able to list and understand the parts of biosafety plan.
- To learn healthy & good laboratory practices.
- To develop proper waste management in the laboratory.
- Workshop Kit Material
- Certificate of Participation

For Registration:

Visit <http://andcollege.du.ac.in>

UG Students : Rs 200/-

Research Scholars: Rs 1000/-

Faculty: Rs 1500/-

Last Date for Registration: Feb 18, 2018

**First 75 student registrations
will be given free Safety Kit**

Eminent Speakers

Dr. H.V. Murugkar

(Principal Scientist, Society for Biosafety)

Prof. Rup Lal

(University of Delhi)

Dr. Mryuntanjay Suar

(ASM Ambassador, India Ocean Region)

Dr. Vijay Pal Singh

(Deputy Director, FSSAI)

Dr. Sanjeev Kumar Sharma

(Senior Manager, Health & Safety, Jubilant Generics Ltd)

Dr. Sanjukta Subudhi

(Scientist, TERI)

Dr. Gagan Dhawan

(ANDC, University of Delhi)





Acharya Narendra Dev College

(University of Delhi)

NAAC accredited 'A' grade

Department of Chemistry

(under the patronage of DBT Star College Scheme)

organizes a workshop

on

Systematic Use of Digital Information in Academic Activities

Resource Person: **Dr Tariq Ashraf**
Deputy Librarian, University of Delhi

Friday, 10th November, 2017

at 11:00 am

Venue: Web Centre



Dr Savithri Singh
(Principal)

Dr Pankaj Khanna
(Organizer)

ACHARYA NARENDRA DEV COLLEGE UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31

DBT STAR COLLEGE

Organizes

Workshop on "PCR & Southern Blotting"



Dr. Ravi Toteja

Dr. Seema Makhija
(Convener)

September 26, 2017

Venue:- Conference Hall



ACHARYA NARENDRA DEV COLLEGE
(University of Delhi)



Under the aegis of
DBT Star College Scheme
Department of Zoology is organizing

Workshop

on

ANXIETY AT WORKPLACE

Date: August 25, 2017

Time: 01:00 p.m.

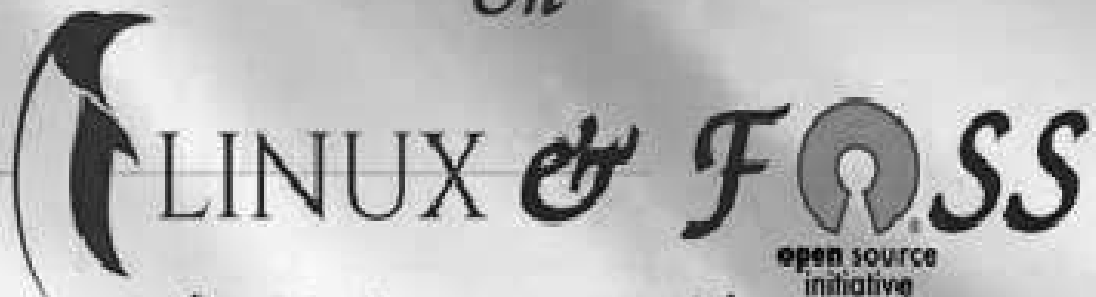
Venue: Conference Hall

Dr. Savithri Singh
(Principal)

Dr. Ravi Toteja
(Coordinator)

WORKSHOPS

On



(8-11 August, 2017)

Organized

By

*Department of Computer Science
Acharya Narendra Dev College
(University of Delhi)*



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

Accredited "A" Grade by NAAC with a score of 3.31

Under the aegis of DBT Star College Scheme

Dr. Saumya Saxena Memorial Lecture

The Plants that changed India and the World

March 23rd, 2018
10:00 a.m. Seminar Room

Dr. Subbarao Natesh
DST Centre for Policy Research
IIT Delhi



Organized by
TARUMITRA
The Botanical Society



ACHARYA NARENDRA DEV COLLEGE
(UNIVERSITY OF DELHI)
DEPARTMENT OF BIOMEDICAL SCIENCE
(UNDER THE AEGIS OF DBT-STAR COLLEGE SCHEME)



PRESENTS

Date & Time:
March 12, 2018
(9AM-5PM)

CATHEXIS'18

Venue:
Seminar Hall

BREAST CANCER: AWARENESS & SELF-ASSESSMENT

by

Dr. Anju Gupta

(HOD, Dept. of Surgery, Acharya Shree Bhikshu Hospital, GNCTD)

CERVICAL CANCER: ARE YOU SECURE?

by

Dr. Sushma Sinha

(MBBS, MD, Acharya Shree Bhikshu Hospital, GNCTD)

INGENUITY IN CANCER

by

Dr. Abhishek Shankar

(Assistant Professor, Dept. of Preventive Oncology, AIIMS)

EVENTS

PATTE-KARI (Leaf Painting)

FOTOGRAFIE (Photography)

SOS: Speak-On-Spot (Extempore)

COLOUROMA (Rangoli Making)

SCI-CHARADES (Dumb Charades)

REGISTRATION: ON THE SPOT (9.00 AM onwards; Fee: Rs. 50 per event)

No Fee for attending lectures.

President
RITIKA MADAAN
(7291071367)

Vice-President
SONANJALI ANEJA
(9871498248)

Treasurer
ABHIJIT
(9773178412)

Coordinator
UROOJ FATIMA
(9205654323)

ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

Presents

Talks On

E-Waste - A challenge of 21st Century & Cloud Computing

(Speaker:
Dr. Geeta Bhatt,
BCAS,
DU)

(Speaker:
Mr. Lalit Mathur,
Director,
DCIRRUS)

**Organised By
Department of Computer Science**

(Under Star College Scheme)

DATE: 22ND FEBRUARY, 2018



**ACHARYA NARENDRA DEV
COLLEGE
(UNIVERSITY OF DELHI)**

in association with
British Council, New Delhi

Jointly Organize
A PUBLIC LECTURE

by

Dr. Jen Gupta

(Astrophysicist, freelance science
communicator and podcaster)

on the topic

THE INVISIBLE UNIVERSE



Dr. Jen Gupta

Date: February 22, 2018

Time: 10:30 a.m.

Venue: Conference room

ALL ARE CORDIALLY INVITED.



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

NAAC accredited 'A' grade



Department of Electronics

(under the aegis of DBT STAR College scheme)

ElectroBlitz

The Electronica Society cordially invites you to a lecture by

Mr. Sourabh Basu

Scientist/ Engineer 'SE' ISRO Satellite Centre, Bangalore

On

A preface into Wireless Communication and Electronic Warfare

Date: 29th January, 2018 (Monday)

Time: 10:00 A.M.

Venue: College Conference Hall

REPORT
of lecture on
“Environment, Ecology, Ecosystems and & Ecological Restoration”
by Professor C.R. Babu

organized by

Tarumitra, The Botanical Society
Acharya Narendra Dev College
Under the aegis of DBT Star College Scheme



18th January 2018
11.00 am, Conference Hall
Acharya Narendra Dev College

Tarumitra, The Botanical Society
Acharya Narendra Dev College
Lecture on “*Environment, Ecology, Ecosystems and & Ecological Restoration*”
by Professor C.R. Babu

Tarumitra, the Botanical Society of Acharya Narendra Dev College organized a lecture entitled “*Environment, Ecology, Ecosystems and & Ecological Restoration*” by Professor C.R. Babu. The talk was held on 18th January 2018 in the Conference Hall, under the aegis of DBT star college scheme. Professor C.R. Babu served as a faculty member of the Department of Botany, University of Delhi for more than 35 years. He was the founder Director of the Centre for Environmental Management of Degraded Ecosystems (CEMDE) and School of Environmental Studies at the University of Delhi. He was the Pro-Vice-Chancellor of the University of Delhi from 2000 to 2005. Presently he is Professor Emeritus at the University of Delhi. He is the Project Director of the Centre of Excellence Programme of the Ministry of Environment & Forests & Climate Change, Government of India at CEMDE (University of Delhi) and Project In-charge of the Biodiversity Parks Programme of Delhi Development Authority (DDA) at the University of Delhi. Moreover, He is a renowned scientist working on several diverse aspects of biological sciences that included ecology, conservation biology, environment management, and restoration biology in India and abroad. The lecture started with welcome address from Dr Savithri Singh, Principal, Acharya Narendra Dev College. During the discourse Professor Babu enlightened the basics concepts of ecology, ecosystems and environment. He also explained how the abiotic and biotic factors interact with each other for proper functioning of the ecosystem. He highlighted the role of functional ecosystem in solving many challenging problems of pollution and global climate change. By citing his own research and expertise Professor Babu emphasized the importance of conservation and restoration in current scenario of changing land use pattern. He captured the imagination of audience and created the euphoria of knowledge by showing the phenomenal efforts in transforming the degraded forest and wetlands in the Delhi, particularly the Biodiversity park and Neela Hauz Lake near JNU. He also mentioned about the detrimental effects of *Prosopis juliflora* and how his team wage a war to eradicate this tree from the Delhi Ridge area. Professor Babu, also encouraged the young students and faculty members to enthusiastically participate in transforming the Tughlakabad Forests as college students are also the stakeholders in this project. The dais was opened for the discussion and there were many curious questions by students that were well answered by Professor Babu. Overall the

lecture thoroughly benefitted the students to acquire knowledge about the restoration ecology and environment sustainability. Moreover, it has invigorated the students interests in gaining knowledge about the importance of endemic flora and also acquire the basic knowledge and skills for their conservation. The event was culminated after President “Tarumitra” presented a memento to our esteemed Guest.



TARUMITRA

THE BOTANICAL SOCIETY

(Under the aegis of DBT STAR COLLEGE SCHEME)

of

Acharya Narendra Dev College

University of Delhi

(Accredited "A" Grade by NAAC with a score of 3.31)

Organizes a Lecture on

BIODIVERSITY AND THE NEED FOR ITS CONSERVATION



Dr. Rita Singh

University School of Environment Management (USEM),
Guru Gobind Singh Indraprastha University (GGSIU), New Delhi

Date

November 2, 2017; Thursday

Time

10:00 AM

Venue

Conference Room



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31

Department of Commerce
presents

THE TRENDING ECONOMIC AND BUSINESS RELATED ISSUES

By

Mr. Rajeev Talwar
Chartered Accountant

10 AM ONWARDS

September 27, 2017
Venue: Conference Hall



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

NAAC accredited 'A' grade



Department of Physics

(under the aegis DBT STAR College scheme)
is privileged to host



Dr. Soumya Mitra

Senior Scientist II, Abbvie Bioresearch Center, Worcester, MA, USA
Former faculty at University of Rochester, Rochester, NY USA

The Department cordially invites all students and colleagues
to an interactive session on

"Applications of Biomedical Imaging in Drug Discovery and Treatment Monitoring"

Date: 26 September 2017 (Tuesday)

Time: 1.30 p.m.

Venue: College Conference Centre



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

Accredited 'A' Grade By NAAC With a Score of 3.31



TARUMITRA

THE BOTANICAL SOCIETY

Under the aegis of DBT STAR COLLEGE SCHEME

Organizes a lecture

on

WONDERS OF POLLINATION AT WORK

By

Professor Rajesh Tandon

Department of Botany

&

Dean Student Welfare

University of Delhi

All are cordially invited

Date

September 26, 2017; Tuesday

Time

10:30 AM

Venue

Conference Room



ACHARYA NARENDRA DEV COLLEGE

(UNIVERSITY OF DELHI)

NAAC ACCREDITED: 'A' GRADE

DEPARTMENT OF COMPUTER SCIENCE

(UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME)

(INAUGURAL FUNCTION OF TURING SOCIETY)

A TECHNICAL TALK

ON

ETHICAL HACKING:

A TOOL FOR CYBER CRIME INVESTIGATION

DATE: SEPTEMBER 15, 2017

TIME: 10:30AM ONWARDS

VENUE: CONFERENCE HALL

SPEAKER:

DR. AMAR MOHAPATRA

(HOD IT, IGDTUW)

DR. SAVITHRI SINGH

PRINCIPAL

DR. CHANDRA KANTA SAMAL

CONVENER, TURING SOCIETY



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)
NAAC Accredited: 'A' Grade

Department of Zoology

(Under the aegis of DBT Star College Scheme)

Organizes One Day Seminar on Awareness on IPR & Social Insects

Date: September 05, 2017

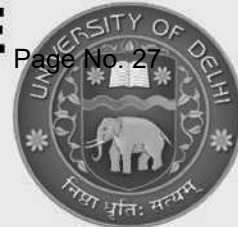
Time: 09.30 AM

Venue: Conference Hall

Title of the Talk	Speaker
Importance of IPR and its Protection	Mr. R. Saha (Advisor CII & Former Director PFC, TIFAC, DST)
Patent, Patenting Procedure & Patent Search	Dr. Rekha Chaturvedi (IPR Chair Professor, DU)
Industrial Design & its Registration	Ms. Amanpreet Kaur (Project Assistant under IPR Chair)
Copyright	Dr. Rekha Chaturvedi (IPR Chair Professor, DU)
The Wonder World of Social Insects	Dr. Debjani De (Principal Scientist, Division of Entomology, IARI, Pusa)

Dr. Savithri Singh
Principal

Dr. Seema Makhija
Coordinator



under the aegis of
Internal Quality Assurance Cell
& Eco-Club 'Paritantra'

Organises
National Symposium on

CONTEMPORARY ENVIRONMENTAL CONCERNS 2018

MARCH 15-17, 2018

EVENTS

**ORAL AND POSTER
PRESENTATION**

TOPICS

- *Mitigation of environmental problems.
- *Exposure-response assessment of environmental problems

SUBMIT AT:

cec2018@andc.du.ac.in

**LAST DATE OF
ABSTRACT SUBMISSION
MARCH 10, 2018**

*Selected Papers will be published in
UGC approved Journal with ISSN number.*

PRIZES WORTH

₹ 20,000

VENUE:

CONFERENCE HALL

ACHARYA NARENDRA DEV COLLEGE

REGISTRATION

FEE

STUDENTS

₹500

RESEARCH SCHOLARS

₹1000

FACULTY

₹1500

INDUSTRY PERSON

₹ 2500

REGISTER AT:

<http://andcollege.du.ac.in>

LAST DATE OF REGISTRATION: MARCH 12, 2018

Patron Dr. Savithri Singh Principal	Convenor Dr. Seema Gupta 9811357733	Coordinators Dr. Pooja Bhagat Dr. Gagan Dhawan	Organising Secretaries Dr. Charu Khosla Gupta Dr. Arijit Chowdhuri
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Symposium on Contemporary Environmental Concerns – 2018

Awareness, Assessment, Mitigation, Public health and Socio-cultural aspects
(under the aegis of IQAC and Eco-Club *Paritantra*, ANDC)

15 – 17 March 2018

Acharya Narendra Dev College (University of Delhi)

Govindpuri, Kalkaji, New Delhi – 110 019, INDIA

Patron

Savithri Singh
Principal

Convenor

Seema Gupta

Coordinators

Gagan Dhawan
Pooja Bhagat

Organizing Secretaries

Charu K Gupta
Arijit Chowdhuri

Important Dates

Abstract Submission
10 March 2018

Abstract Acceptance
11 March 2018

Last date of registration
12 March 2018

Venue

Conference Centre,
Acharya Narendra
Dev College

Secretariat

cec2018@andc.du.
ac.in

A clean environment is considered to be a basic requirement for human health and is included by United Nations as one of the Sustainable Development Goals, in particular SDG 11 (UN, 2015). Scientific findings indicate urgent need to undertake pre-emptive action as a panacea to control this gigantic problem. Hence, there arises a need to expose students to a) Mitigation and b) Exposure-Response assessments in curbing environmental degradation at the grass-root level. National Symposium on Contemporary Environmental Concerns – 2018 at Acharya Narendra Dev College envisages providing a platform to encourage students help establish a connection between generation of environmental pollution and practical ways in mitigation of the same.

Contemporary Environmental Concerns 2018 Salient features

- Popular Science talks by eminent speakers
- Competitive Oral presentations and Poster Sessions for students
- Prizes totalling Rs. 20,000/- for best Oral and Poster presentations

Registration Fee

- | | |
|---------------------------|------------------------------|
| a) UG students: Rs. 500/- | b) Research Scholars: 1000/- |
| c) Faculty: Rs. 1500/- | d) Industry: 2500/- |

Abstracts are invited from students and scholars for oral and poster presentations, in the broad topic areas related to a) Mitigation and b) Exposure-Response to environmental problems. Maximum two students are allowed per poster. Abstract submission details and Registration forms are available on the college website – <http://andcollege.du.ac.in>. Abstract(s) and Registration form should be sent as attachment in document format by e-mail to: cec2018@andc.du.ac.in. Selected full-length papers will be published in Proceedings with ISSN/ISBN numbers (at extra charge)



SPIE. STUDENT CHAPTER
UNIVERSITY OF DELHI AT ACHARYA NARENDRA DEV COLLEGE



2019 SPIE Student Chapter Annual Report



Prepared by:
Prince Sharma
Chapter President
+
Dr. Amit Garg
Faculty Advisor

Executive Summary:

The Univ. of Delhi at Acharya Narendra Dev College Chapter was established in August 6, 2010. After 10 years from then, this chapter is a family of 122 student members. We hold weekly meetings where SPIE members get together and discuss and share their works and hold discussion on various topics related to Optics and Photonics. The purpose of University of Delhi at Acharya Narendra Dev College SPIE Student Chapter is to promote optics and photonics among undergraduate students by providing valuable academic career development through conducting various events, workshops, competitions and activities. Our chapter has brought awareness among students at undergraduate levels with the importance of light-based technologies. This year, our chapter successfully utilized Visiting Lecturer Grant to invite an eminent scientist Prof. Marija Strojnik. Also, the chapter organized Council of Scientific and Industrial Research (CSIR) Lab Visits for the students to see things practically out of the books.

Contact Information:

For general questions about our chapter, please email our chapter advisor, Dr. Amit Garg, at amitgarg@andc.du.ac.in

Facebook Page: <https://www.facebook.com/spieandc/>

Instagram Page: https://www.instagram.com/spie_andc/

2018 - 2019 Officer Listing:



Rohit Saini
President
3rd Year Bachelor's Student
rohitsaini433@gmail.com
he/his/his



Chiradeep Das
Vice-President
3rd Year Bachelor's Student
chiradeep.das.cd@gmail.com
He/his/his



Ritesh Raj
Secretary
3rd Year Student
riteshraj090@gmail.com
He/his/his



Hardik Minocha
Vice-President
2nd Year Student
hardikminocha@gmail.com
He/his/his

FACULTY ADVISOR



Dr. Amit Garg

2019 – 2020 Officer Listing:



Prince Sharma
President
3rd Year Student
princesharma2899@gmail.com
He/his/his



Mallika Yadav
Vice-President
2nd Year Student
mallikayadav60@gmail.com
She/her/hers



Avinash Kumar
Secretary
3rd Year Student
avinashkumar2000@gmail.com
He/his/his



Gaurav Lohkna
Treasurer
2nd Year Student
lohkna007@gmail.com
He/his/his

FACULTY ADVISOR



Dr. Amit Garg

Student and Community Membership

At the time of this report, there are 108 student members affiliated to the Univ. of Delhi Acharya Narendra Dev College Chapter.

Name	Email ID	Expected Grad Month/Year	SPIE Expiration Date
Mr. Hrithik k p	kphrithik@gmail.com	Jun-22	02-Oct-20
Mr. Sukhvinder singh	sukhe353@gmail.com	Jun-22	02-Oct-20
Mr. Faiz Ahmad	faizahmad0810@gmail.com	Jun-22	02-Oct-20
Mr. Abhishek Pal	abhi.pal00@gmail.com	Jun-21	02-Oct-20
Mr. Pratyush Jangpangi	jangpangi17@gmail.com	Jun-21	02-Oct-20
Mr. Shrey Singhal	shreysinghal15mrt@gmail.com	Jun-22	02-Oct-20
Mr. Pulkit Singh	pulkaetus@gmail.com	Jun-22	02-Oct-20
Ms. Nikita Gupta	niks789gupta@gmail.com	Jun-22	02-Oct-20
Ms. Shruti Singla	garimasingla022001@gmail.com	Jun-22	02-Oct-20
Mr. Bharat	vajpaybharat2000@gmail.com	Jun-22	02-Oct-20
Mr. Sunny	skkadian123@gmail.com	Jun-22	02-Oct-20
Mr. Govinda Verma	govindavarma1998@gmail.com	Jun-22	02-Oct-20
Mr. Pushkar Baranwal	inbox.pushkar@gmail.com	Jun-21	02-Oct-20
Ms. Sakshi Gupta	sakshigupta46683@gmail.com	Jun-22	02-Oct-20
Mr. Sumit Kumar	sumit2907kumar@gmail.com	Jun-22	02-Oct-20
Mr. Satyaveer	satyaveerfamda58@gmail.com	Jun-22	02-Oct-20
Ms. Neerddhi Goswami	neerdhigoswami@gmail.com	Jun-22	02-Oct-20
Ms. Mariyam Ali	mariyam0000ali@gmail.com	Jun-22	02-Oct-20
Mr. Rudra Abhishek	rudraabhishek1104@gmail.com	Jun-22	02-Oct-20
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Mr. Amandeep Suryavanshi	ad.aman.deep143@gmail.com	Jun-20	02-Oct-20
Ms. Raniya Sahoo	raniya.sahoo@gmail.com	Jun-22	02-Oct-20
Ms. Harshita Mansinghka	harshitamansinghka123321@gmail.com	Jun-22	02-Oct-20
Ms. Shivangi Singh	shibusingh2002@gmail.com	Jun-22	02-Oct-20
Mr. Pawan Kumar	pawanky.34@gmail.com	Jun-21	02-Oct-20
Mr. Bharat Adhikari	adbharat14@gmail.com	Jun-22	02-Oct-20
Mr. Parwej Alam	parweza1998@gmail.com	Jun-20	02-Oct-20
Mr. Aditya Goyal	vision.2010@rediffmail.com	Jun-22	02-Oct-20
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Mr. Ayush Rawat	ayushrawatn1611f@gmail.com	Jun-22	02-Oct-20
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Mr. Sant Kumar	kumarsant1739@gmail.com	Jun-22	02-Oct-20
Mr. Rahul Kumar	ronythakur070@gmail.com	Jun-20	02-Oct-20

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Mr. Shubham Das	skshubhamdas@gmail.com	Jun-22	03-Oct-20
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Mr. Vasu Narang	vasu17narang@gmail.com	Jun-21	03-Oct-20
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Ms. Mahak Kalra	mahakkalra0202@gmail.com	Jun-21	03-Oct-20
Mr. Mohit Supyal	mohitsupyal26@gmail.com	Jun-21	03-Oct-20
Mr. Alpesh Kumar	alpeshkumar8678@gmail.com	Jun-21	03-Oct-20
Mr. Shubham Kumar Pal	shubhampaul1258@gmail.com	Jun-22	03-Oct-20
Mr. Rahul Raj	raj.12082002@gmail.com	Jun-22	03-Oct-20
Ms. Shruti Yadav	shrutiyaadvkajal@gmail.com	Jun-22	03-Oct-20
Ms. Reya Negi	negiriya726@gmail.com	Jun-21	03-Oct-20
Mr. Shivrat Sachdeva	shivrats2417@gmail.com	Jun-21	03-Oct-20
Mr. Anudeep AS	anudeep28.2000@gmail.com	Jun-21	03-Oct-20
Mr. Radheshyam Kumar	radhe2397801@gmail.com	Jun-22	03-Oct-20
Ms. Bisakha Das	das.bisakha28@gmail.com	Jun-22	03-Oct-20
Mr. Rishabh Gupta	rishabhparadox@gmail.com	Jun-22	03-Oct-20
Mr. Nirmal Mor	nirmalmorgpt@gmail.com	Jun-22	03-Oct-20
Mr. Ashutosh mani Tripathi	ashutoshtripathi4567@gmail.com	Jun-21	03-Oct-20
Ms. Tarunpreet Kaur	tp.kaur02@gmail.com	Jun-22	03-Oct-20
Mr. Ujjwal Singh	sujjwal85@gmail.com	Jun-22	03-Oct-20
Mr. Apoorv Singh	apoorvsingh702@gmail.com	Jun-22	03-Oct-20
Ms. Aditi	aditiisharma003@gmail.com	Jun-22	03-Oct-20
Mr. Ashish	ashishkum14@gmail.com	Jun-22	03-Oct-20
Mr. Nishant Kumar	nkspd8080@gmail.com	Jun-22	03-Oct-20
Mr. Jasveer singh yadav	yeshveersinghyadav@gmail.com	Jun-22	03-Oct-20
Mr. Amit kumar	amitk50002@gmail.com	Jun-22	03-Oct-20
Ms. Sumona Kumar	sumonakumar99@gmail.com	Jun-20	03-Oct-20
Mr. Naveen Rawat	naveensrwt072002@gmail.com	Jun-22	03-Oct-20
Mr. Vinay Patel	rakra9521@gmail.com	Jun-21	03-Oct-20
Mr. Avijit Mohan	avijit080501@gmail.com	Jun-22	03-Oct-20
Mr. Obaidullah Khudayar	obaidullahkhudayar11@gmail.com	Jun-22	03-Oct-20
Mr. Gourav Gupta	108gourav@gmail.com	Jun-21	03-Oct-20
Mr. Rahul Basu	r@hul.space	Jun-22	03-Oct-20
Mr. Devesh Yadav	deveshy269@gmail.com	Jun-22	03-Oct-20

Ms. Aastha Singh	aasthasingh0201@gmail.com	Jun-21	03-Oct-20
Ms. Stuti Thakur	stuti10501@gmail.com	Jun-22	03-Oct-20
Ms. Kunika Goyal	kunikagoyal525@gmail.com	Jun-22	03-Oct-20
Ms. Jhilmil Bindal	jhilmilbindal2001@gmail.com	Jun-22	03-Oct-20
Ms. Pritika Kwatra	pritikakwatra8301@gmail.com	Jun-22	03-Oct-20
Mr. Devansh Sharma	devanshsharma50@gmail.com	Jun-22	03-Oct-20
Ms. Ridhima Suri	ridhimasuri99@gmail.com	Jun-22	03-Oct-20
Mr. Karamveer Sharma	sharma99karambir@gmail.com	Jun-21	03-Oct-20
Mr. Aman Tyagi	tyagi0776@gmail.com	Jun-21	03-Oct-20
Mr. Himanshu Bansal	himanshubansal591@gmail.com	Jun-22	03-Oct-20
Mr. Prashant	sharmaprashant92001@gmail.com	Jun-22	03-Oct-20
Ms. Shruti Singh	binushruti403@gmail.com	Jun-22	03-Oct-20
Mr. Aryan Rathi	aryanrathi889@gmail.com	Jun-22	02-Oct-20
Mr. Rahul Gautam	rahul9810.rk65@gmail.com	Jun-22	03-Oct-20
Mr. Pushkar Pandey	pushkarpandey2001@gmail.com	Jun-22	22-Oct-20
Ms. Sakshi Sharma	sakshisharma14200@gmail.com	Jun-22	24-Oct-20
Ms. Alisha Biswal	alishabiswal196@gmail.com	Jun-21	05-Jan-21
Mr. Abhishek Puri	abhishek134201@gmail.com	Jun-21	05-Jan-21
Mr. Abhishek Khanna	abhishekji.1999@gmail.com	Jun-21	05-Jan-21
Mr. Viren Tyagi	virentyagi16@gmail.com	Jun-21	05-Jan-21
Ms. Mallika Yadav	mallikayadav60@gmail.com	Jun-21	05-Jan-21
Mr. Anurag Saxena	anuragsaxena2200@gmail.com	Jun-21	05-Jan-21
Mr. Subham Riyal	shubhamriyal07@gmail.com	Jun-21	05-Jan-21
Mr. Prahlad Prajapat	prahladprajapat573@gmail.com	Jun-21	05-Jan-21
Ms. Jaya Sunariya	jayasunariya217@gmail.com	Jun-20	05-Jan-21
Mr. Avinash Kumar	i.avinashkumar2000@gmail.com	Jun-21	05-Jan-21
Mr. Yash Varshney	yash.varshney003@gmail.com	Jun-21	05-Jan-21
Mr. Rohit Yadav	rohityadav20062000@gmail.com	Jun-21	05-Jan-21
Mr. Abhishek	abhishekudiya09@gmail.com	Jun-21	05-Jan-21
Mr. Chiradeep Das	chiradeep.das.cd@gmail.com	Jun-19	13-Apr-20
Mr. Rohit Saini	rohitsaini433@gmail.com	Jun-19	13-Apr-20
Mr. Prince Sharma	princesharma2899@gmail.com	Jun-20	16-Oct-20
Mr. Hardik Minocha	hardikminocha@gmail.com	Jun-20	11-Jun-20
Mr. Ritesh Raj	riteshraj090@gmail.com	Jun-19	13-Apr-20

Activities Report

Wonders of Optics 2019

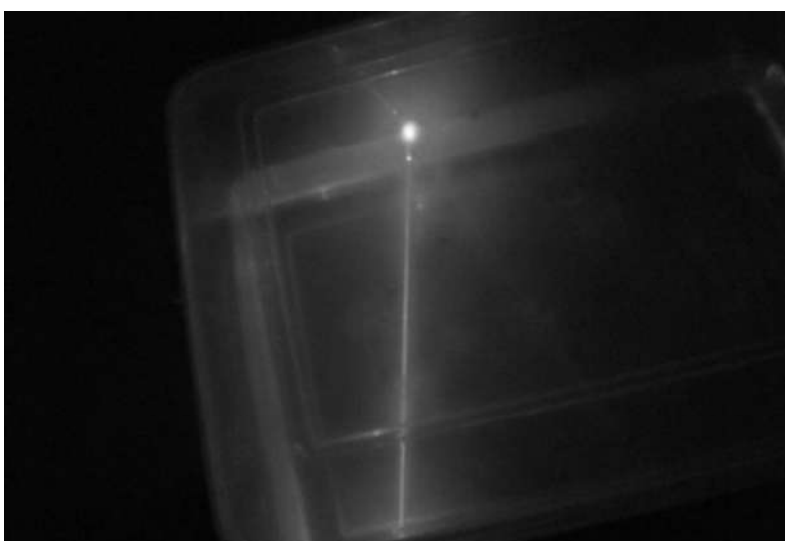
Organizer: Amit Garg, Faculty Advisor

Date/Time/Location: January 24, 2019 from 10am -5 pm in Conference Lab

Participants: 50 students (They were undergraduates, few of them from outside our chapter)

Cost: \$100

A hands-on workshop on “Paradigm Shift in Physics Education through hands-on techniques in OPTICS” was organized on the 24th January 2019. The workshop conducted in collaboration with “JOY OF LEARNING FOUNDATION, DELHI”. The SPIE members were divided into a group of 4 to attend the workshop. The attendees were given hands on training and were introduced to various concepts of physics mostly related to optics. The workshop event was free for all the SPIE members and it has 50 participants. The workshop was successful in achieving its goal of imparting basic knowledge and igniting interest among students about OPTICS.



SPIE Structured Light OPIC 2019

Organizer: Dr. Catherine Berdanier, SPIE

Date/Time/Location: April 21-26, 2019 in Yokohama, Japan

Participants: Mr. Rohit Saini from our chapter and other leaders and research scholars from different chapters

Cost: \$ Supported by SPIE, USA Officer’s Travel Grant

The 2019 SPIE Structured Light OPIC (Optics and Photonics International Congress) programme along with SPIE leadership workshop was held in April, 2019 in Yokohama, Japan. Mr. Rohit Saini, B.Sc. (Hons.) Electronics III Year student attended that conference from April 21-26,2019. He was awarded the Officer’s Travel Grant to attend the SPIE Leadership workshop along with OPIC. He was a part of IoT-SNAP2019 International conference which was majorly about the modern technologies and many technical papers were presented there from leading companies and professors. The leadership workshop was a really good experience. The chapter leaders joined that workshop across all over the world. Everyone has their own chapter posters enlightening about their works, promotions and research they have done so far throughout the year 2018-2019. We have also participated in some lectures and activities conducted by Dr. Catherine Berdanier. These activities were really good to develop our communication presentation and writing skills. Few of them were senior and guided him for future studies and he also met directors and manager of Japanese companies. They motivated him for bright future. OPIC fair was the best part of conference leading companies were to present their new products and development they have done so far. According to Rohit, attending 2019 SPIE Structured Light programme was a wonderful experience for him and shared his experience with all the members in our chapter so it was worth for them also.



8051/52 Embedded Systems - ROBOTHON'19

Organizer: Robosapiens India

Date/Time/Location: October 4, 2019 from 9 am - 5 pm at IIT Delhi

Participants: 2 students from the chapter (They were undergraduates)

Cost: \$100

The workshop mainly focused on the students eager to learn about Embedded System using 8051. This was a chance provided to them to expand their knowledge in the field of designing, construction, operation, and application of Embedded System with real time practical experience using Robosapiens 8051 Development Board. The duration of this workshop was 1 day, with 2 Sessions, properly divided into theory and hand on practical sessions. Our chapter fully funded the two of its members, Mr. Hardik Minocha and Mr. Prahlad Prajapat to attend this workshop. The students had their projects running under the chapter which required knowledge in Embedded Systems using 8081. Some of the practical mini projects were writing "LED BLINKING" Code in Embedded C, Displaying and Blinking Text, Scrolling Text, Automatic Counting of Numbers using LCD. After attending the workshop, they helped other students working on various areas and propagated their knowledge in the meetings with other members of the chapter.



SPIE Orientation Programme 2019

Organizer: Acharya Narendra Dev College

Date/Time/Location: July 22 - 23, 2019 from 12-3 pm in Computer Lab, New Building

Participants: 6 members from the chapter and audience were freshers of the college.

Cost: \$100

A two-day Orientation Program from July 22 – 23, 2019 was organized in four sessions each day to aware the newly joined students of the college about the activities of the SPIE Society. A team of potential members in the chapter and newly elected officers led by Prince Sharma, Chapter president 2019-20 and Avinash Kumar Lal, Chapter Secretary 2019-20 told freshers everything about the existing SPIE society in the college interactively right from the basics to the pre-accomplished projects. The team apprised them about the recent activities organized by the chapter and freshers were told about the importance of Optics and Photonics which is applied everywhere in the world and also realized them how important it is work in the advancement of Optics and Photonics. It was fun and interactive session with the new curious minds.



Optical Color Mixing Workshop cum Introductory session with Freshers

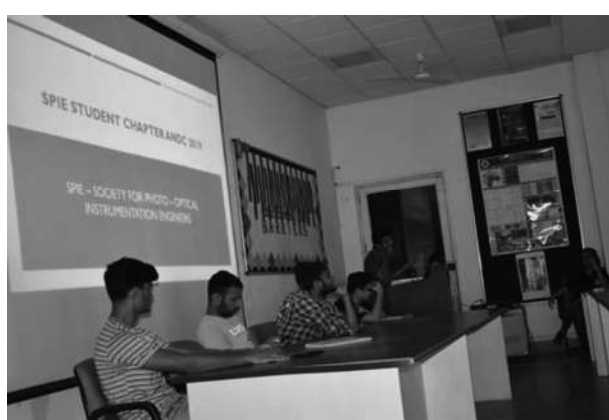
Organizer: Prince Sharma, President 2019-20; Hardik Minocha, Treasurer 2018-19; Amit Garg, Faculty Advisor

Date/Time/Location: August 9, 2019 from 1-5 pm in Seminar Hall, New Building

Participants: 110 students (Most of them were newly joined society members)

Cost: \$100

It was specifically organized to give new members the practical idea of what the society is all about. The session started by address and welcome of the new members by the newly elected President, Mr. Prince Sharma. At the start, he quickly reviewed everything about the society that was already told in orientation sessions making convenient for those who could not attend it. He introduced other chapter officers and some potential members and later, he placed the upcoming yearly plan of the society in front of the students and kept some milestones with the team. The session was quite motivating which encouraged them to show active participation in society. The second session was of the workshop where Mr. Hardik Minocha with his team gave theoretical explanation of Colors and emphasized on the difference between Optical and Pigment Colors. Students were given the practical overview of how Red, Green and Blue are mixed together to generate different colors. It was no doubt knowledgeable and interactive session with the students.



Excursion Trip to Nehru Planetarium

Organizer: Amit Garg, Faculty Advisor

Date/Time/Location: August 29, 2019 from 10-5 pm at Nehru Planetarium, New Delhi

Participants: 80 students (All were the chapter members)

Cost: \$200

Field trips connects students to the real world. It awakens the student's interest to learn and get new learning information, no matter how boring the subject is in theory. Considering the same, SPIE Student Chapter conducted an excursion trip to Nehru Planetarium which brought curiosity among students in Astronomy – Astronomy telescopes, stars, and galaxies which is one of the core parts in the field of Optics and Photonics. This facilitated fast and efficient learning among students. SPIE fully funded the tickets and travel for the excursion trip to Nehru Planetarium. Sky theatre was the prime attraction to the students. The dome-shaped theatre displayed information on planets, constellations, and stars. The information was beautifully presented with the help of computer animations, video clippings and special effects. Various programmes was created with these objects to display astronomical information in the Sky Theatre. One of the other major attractions in the planetarium was Soyuz T-10 which was used by Rakesh Sharma, the first Indian cosmonaut, to travel to space.



Arduino Masterclass

Organizer: Elecbits (<https://www.linkedin.com/company/elecbits/about/>), Amit Garg, Faculty Advisor

Date/Time/Location: September 7, 2019 from 1-5 pm in Seminar Hall, New Building

Participants: 100 students (Most of them were chapter members, few of them were from outside the chapter)

Cost: \$100

A hands-on workshop on Arduino was organized in association with Elecbits which included Introduction to Arduino, building an Arduino Instant Messenger, Weather Station, own Disco Light and building an Ultrasonic Radar. This workshop kickstarted the minds of freshers to start working on their own projects and make something creative out of their curious minds with the existing technologies.



Fourth Lecture Workshop on Transdisciplinary Areas of Research and Teaching

Organizer: Amit Garg, Faculty Advisor

Date/Time/Location: September 27 – 28, 2019 at DDUC, University of Delhi

Participants: 14 students (All were chapter members)

Cost: \$100

14 Students attended a DST (Department of Science & Technology, Government of India) Sponsored Fourth Lecture Workshop on Transdisciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees held on 27th and 28th September. The series of lectures included talks on Mathematical Modelling, Photonics Revolution, Evolution of Quantum Theory & Entanglement, etc. from scientists and personalities of various fields. Among the famous personalities, Prof. Anurag Sharma, who is also a faculty advisor at IIT Delhi Student Chapter delivered his enlightening talk on Optics and Photonics. Students from our chapter interacted with him and asked curious questions that was aroused from his lecture. Prof. Ajoy Ghatak delivered his talk on the Evolution of Quantum Theory & Entanglement. Other Shant Swaroop Bhatnagar Awardees were Dr. Jitendra Nath Goswami, Dr. G. Narahari Sastry, Prof. Balasubramanian Sundaram. Students were selected on the basis of their involvement in society for attending the lecture workshop.



DST Sponsored Fourth Lecture Workshop	
Trans-disciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees	
September 27-28, 2019	
Jointly Organized by	
National Academy of Sciences India, Allahabad – (NASI) – Delhi Chapter	
Science Foundation, Deen Dayal Upadhyaya College, University of Delhi	
(Under the aegis of DST Star College Program)	
Dwarka, Sector-3, New Delhi 110076	
Land Mark – Near NCT and nearest Metro Station – Dwarka Mor	
Theme of the Workshop	
The Workshop is of multidisciplinary nature and will cover the discipline of science and engineering and is intended to expose undergraduate students and faculty members to thrust areas of research with emphasis on indigenous problems.	
September 27, 2019 (Friday)	
09:00 am – 09:45 am	Registration
09:45 am – 10:00 am	Inauguration
10:00 am – 11:00 am	Session Coordinator(s): Dr. Manoj Anand Vagh and Dr. Phoom Geng Mathematical modelling as a transdisciplinary framework and its applications to neuroscience Professor Kamesha, FNASe and Shanti Swaroop Bhatnagar Awardee - Mathematical Sciences 2983
11:00 am – 12:00 pm	Session Coordinator(s): Dr. Kulvinder Singh and Dr. Deepak Jethi Dr. Jitendra Nath Goswami, FNA, FNASe, FPMAS, FASc Shanti Swaroop Bhatnagar Awardee - Earth, Atmospheric, Ocean and Planetary Sciences 2994 Physical Research Laboratory, Naraina, New Delhi, India
12:00 pm – 12:30 pm	High Tea
12:30 pm – 01:30 pm	Time Session Coordinator(s): Dr. Pooenam Kozuri and Dr. P. K. Badi Evolution of Quantum Theory & Entanglement Professor Ajay Ghatak, FNASe Shanti Swaroop Bhatnagar Awardee - Physical Sciences 1379 Formerly with Department of Physics, IIT Delhi
12:30 pm – 01:30 pm	Medical Sciences Session Coordinator(s): Dr. Shally Anand and Dr. Renu Solanki BOUNDARY Professor C. S. Devi, FNA, FNASe Shanti Swaroop Bhatnagar Awardee - Medical Sc. 2008 School of Biological Sciences, IIT Delhi
01:30 pm – 02:30 pm	Lunch
02:30 pm – 03:30 pm	Session Coordinator(s): Dr. Pooenam Kozuri and Dr. Manoj Saemra Professor Anurag Sharma, FNASe, FNA, FNASe, FASc Shanti Swaroop Bhatnagar Awardee - Engg. Sciences 1998, Department of Physics, IIT Delhi
September 28, 2019 (Saturday)	
10:00 am – 11:00 am	Session Coordinator(s): Dr. Vinod Kumar and Dr. Sachin Mittal Dr. B. Narasimhan, FNASe, FASc Shanti Swaroop Bhatnagar Awardee - Chemical Sc. 2011 Director, CSIR-NCRI, East Institute of Science and Technology, Kolkata
10:00 am – 11:00 am	Biological Sciences Session Coordinator(s): Dr. A. N. Tripathi and Dr. Rajulmani S. Devi Sankar, Wipro, Research Cellular Virology to Rheumatoid Arthritis Cytoskeleton During Fusion with Hepatocytes: Implications in Liver Graft Therapy Professor D. P. Sarkar, FNASe, FNA, FASc Shanti Swaroop Bhatnagar Awardee - Biological Sc. 1998 Department of Biochemistry, University of Delhi
11:00 am – 11:30 am	High Tea
11:30 am – 12:30 pm	Session Coordinator(s): Dr. Shailesh Sarmar and Dr. Ratna Prof. Balasubramanian Sundaram, FASc Shanti Swaroop Bhatnagar Awardee - Chemical Sc. 2011 Chemistry & Physics of Materials Unit, IGCAR, Bangalore
12:30 pm – 01:30 pm	Lunch
Total number of seats in each technical session : 150 (To be filled on first-come-first-served basis)	
Registration Fee: Rs. 100 (To be deposited in Cash & not tested how to pre-register for the workshop. No on the Spot Registration)	
Students (Undergraduate/ Post-graduate/ Research Scholars)	Rs. 100
Faculty Members & Delegates from Academia/Industry/R&D Laboratories	Rs. 500
How to Apply: Interested students and Faculty Members should submit the duly filled form and fees (in cash) to the Convener latest by September 16, 2019 . Participants have to make their own arrangement of local travel and stay. No expenses shall be reimbursed by the organizers.	
For Further Details Contact:	
Dr. Manoj Saemra, Convener-Science Foundation and DST Program Coordinator Associate Professor, Department of Electronics Deen Dayal Upadhyaya College, University of Delhi, New Delhi. E-mail: saemranm27@gmail.com, Mobile: 09881931101	Dr. Pooenam Kattari, Co-Convener-Workshop Associate Professor, Department of Electronics Deen Dayal Upadhyaya College, University of Delhi, E-mail: katzpooenam71@gmail.com

Council of Scientific and Industrial Research (CSIR) Lab Visits

Organizer: CSIR, Government of India

Date/Time/Location: September 26, 2019 and September 30 from 12-5 pm, NPL, IGIB

Participants: 30 students (Most of them were the Chapter members)

Cost: \$100

With an aim to go beyond academics, our chapter organized a lab visit at National Physical Laboratory (NPL) and Institute of Genomics and Integrative Biology (IGIB) under CSIR (Council of Scientific and Industrial Research). Students were divided on the basis of their interests and sent to the respective labs for the practical exposure on 26th Sept (IGIB) and 30 Sept. (NPL). Students went through the various workshops including lithography techniques being used in the labs and got to see various laboratories and instruments and types of luminescent materials and their properties. Parallel by four student members (Mr. Phulender, Mr. Avinash Kumar, Ms. Tripti Varshney, Mr. Aman Tyagi) were selected for main CSIR foundation day function at Vigyan Bhavan, Delhi where Shri Ram Nath Kovind, Hon'ble President of India and Dr. Harsh Vardhan, Hon'ble Minister of Science & Technology, Vice-President, CSIR were the chief guest. This visit provided students with an opportunity to learn practically through interaction and working methods. Also, it encouraged them to extend their hands in research works.



Cost: \$500

Our Chapter invited honorable Prof. Marija Strojnik, Astrophysicist and Distinguished Professor at Optical Research Center, Mexico to our college on 15th October. She enlightened students with her talk on 'Autonomous Navigation System with Intelligent Camera for Space and Earth'. Prof. Marija Strojnik is best known for developing an autonomous system for optical navigation based on CCD technology which is currently used in nearly all commercial aircraft and numerous spacecraft. The talk was followed by a motivational interaction with the students. Later on, she inspected the projects of the SPIE students which was quite fascinating to her. SPIE members had a great day with her and no doubt it was inspiring to the students aspiring to be a future scientist.

Invited Talk and Interaction with Prof. Marija Strojnik under SPIE Visitor Lecturer Grant

-Prince Sharma

On 15th October 2019 under the aegis of the University of Delhi at ANDC SPIE Student Chapter, Prof. Marija Strojnik, an astrophysicist and distinguished Professor at Optical Research Center, Mexico from SPIE had delivered an invited talk on 'Autonomous Navigation with Intelligent Camera for Space and Earth'. It is a milestone in the chapter history of almost 10 years that the chapter availed 'Visiting Lecturer Grant' from SPIE USA and organised this mega event in the chapter year 2019-20.

The event commenced by the offline registration of the students for the initial talk which was scheduled from 10:00 – 11:30 to be delivered by Prof. Marija Strojnik on the above topic. Prof. Marija Strojnik was escorted from her hotel to our college premises by the reception committee consisting of Prince Sharma, Chapter President and Mallika Yadav, Chapter Vice-President. After the registration was over, Dr. Arijit Chowdhuri greeted Prof. Marija accompanying her to the seminar hall along with the Acting Principal of our college, Dr. Ravi Toteja. There was a formal welcome followed by the lamp lighting ceremony. It was then followed by a welcome speech delivered by the Principal of our college. Dr. Arijit Chowdhuri, Assistant Professor of the Department of Physics warmly welcomed Prof. Marija Strojnik with his words. Prof. Marija Strojnik was then requested to deliver her talk to the students. Since our faculty advisor Dr. Amit Garg went out of India for a conference, he sent a video welcome message for Prof. Marija Strojnik which was then played before the start of the talk. Her talk began with a brief introduction to SPIE and her hour-long talk almost covered everything regarding the topic considering the level of undergraduate students. It ended well with some interactive questions related to the topic from the students. The talk was attended by more than 100 students and it truly covered the proposed objective of the event. Everyone enthusiastically interacted with her and also raised their doubts. The doubts were well cleared by Prof. Marija. After the talk was over, Dr. Arijit Chowdhuri ended the first session with thanks note to Prof. Marija. Students were then requested to attend the next session with Prof. Marija Strojnik which was scheduled to be a motivational interactive session with her. They were requested to report to Committee Room at 11:45 am. Meanwhile, Prof. Marija Strojnik was taken for a tea. Around 25 students attended the second session entitled 'Women at the Center' among which most of them were women students. The session was again very engrossing and landed around one and a half hours. Prof. Marija shared her career experiences as a woman with all the students. Almost all the students freely interacted with her and put their questions related to their life and career. Prof. Marija cleared the doubts of the students and also helped them overcome their personal confusion. The overall discussion was emphasized on how women are making a difference in the development of the world. They are being treated equally as men and are encouraged in every field. The session ended with a vote of thanks by the student chapter President Mr. Prince Sharma. He presented Prof. Marija Strojnik with a memento on behalf of the chapter. Prof. Marija Strojnik visited the project exhibition organised by our chapter members. Each of the students in the project exhibition explained their respective projects to Prof. Marija. She was curious enough to ask a few questions to the students regarding their projects. Interestingly, she seemed quite fascinated by the work being done by the chapter members. We took a group photo with Prof. Marija after the exhibition. The session did not get over here. She was then requested to visit our SPIE lab where one of the students in the project exhibition had a project to showcase holography. The students displayed the working of their project in the lab which was again quite an interactive discussion with her. Dr. Vishal Dhingra, Assistant Professor of the Department of Electronics concluded the event with a bouquet presentation to Prof. Marija Strojnik in the lab and thanked her to visit our college. Interestingly, our journey with Prof. Marija Strojnik did not end here. Students were so happy with the event that they requested Prof. Marija for an excursion to the Iskon temple situated near to our college to understand India's Cultural heritage. Prof. Marija was humble enough to accept the members' request. We

were so privileged that we got a chance to spend plenty of time with a great woman scientist like her. We hope Prof. Marija got enough insight about our country India in such a short span of just one day with us.

We really had a great learning experience with her. Students then dispersed with a sincere hope that such an event should be organized time and again giving the students a chance to display their skills and chance to learn new things from the experiences of incredibly successful personalities.

We are extremely thankful to SPIE, USA for providing financial assistance to Prof. Marija Strojnik under Visiting Lecturer Grant. It is because of such a great initiative by SPIE, USA that this event was possible and it will give a long way in motivating students towards a career in science.









Maker Faire Hyderabad 2019

Organizer: Make Media Inc., San Francisco, USA and TWorks

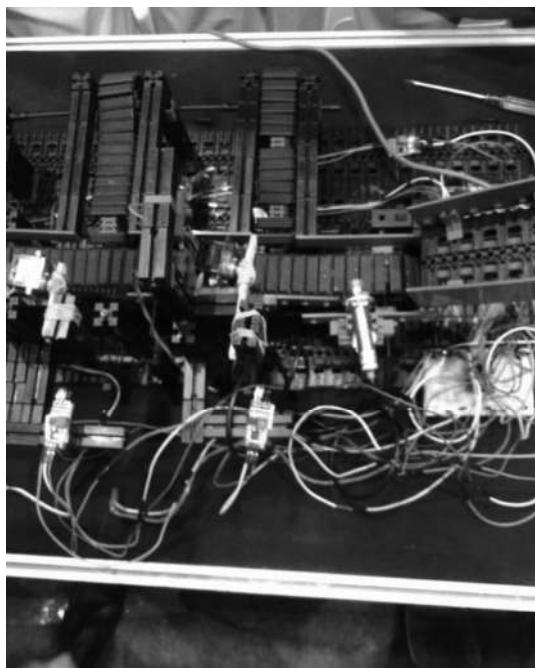
Date/Time/Location: November 10 – 12, 2019 from 10 - 5 pm in Hitex Exhibition Center, Hyderabad

Participants: Mr. Devesh Yadav and Mr. Avinash Kumar Lal (They took part as an attendee)

Cost: \$150

The Maker Faire Hyderabad brings together tech enthusiasts, crafters, educators, tinkerers, food artisans, hobbyists, engineers, science clubs, artists, students, and commercial exhibitors every year. The makers come to show their creations and share their learnings and the attendees flock to the event to glimpse the future and find the inspiration to become makers themselves. Two students, Mr. Devesh Yadav and Mr. Avinash Kumar Lal were sent to attend Maker Faire Hyderabad Event. According to them, there was a gathering of students, enthusiasts and entrepreneur with great ideas and projects from all over the country. There were projects presented on different social and real-life problems. From School kids on Ph.D scholars all participated in the event. Major attraction of this event were the projects presented by school kids which required a good and high-level programming knowledge with a good sense of electronic circuits (Some of the projects were Medicine Reminder for old age people, Garbage Sorter, Obstacle Detection Robot, Obstacle Detection Glasses for Blind People etc.) One of the projects that fascinated the most was a vertical farming model. This model was based on advanced research and different techniques on good quality farming which utilizes most of the outputs including waste material. It included a robot for sowing seeds in farm and removing weeds from the crops. The concept of aquaponics was also used in this project which made it worth considering. There were many more projects like drones, music teaching piano, models on AI learning and much more brought up to there by different startups from all over the country. Some worth mentioning projects included Vapra - the compost maker, Reimagining monuments (for blinds), Automatic Fire Alarm and Safety System, Electric Bike, etc.

The faire was not just limited to projects, but there were many paid workshops available for enthusiasts on various things like microcontrollers, Arduino based workshops, 3D printing, Art and Craft, basic computer knowledge and much more. Overall, this faire was a pretty good platform for seekers, enthusiasts and as well as learners. Although we missed the deadline to take part as a maker in this mega event, this is strongly recommended to the SPIE members to take part in the next year for sure.





Treasurer's Report

Date	Description	Notes	Credit (Income)	Debit (Expenses)	Total(Rs)
1/1/2019	Previous Year's Funds				85263
3/8/2019	SPIE Open Day	Refreshments		6300/-	78963
3/13/2019	SPIE Activity Grant (Previous Year)		164136/-		243099
8/06/2019	Orientation Day	Refreshments + Petty item		6452/-	236647
8/17/2019	Council Elections	Refreshments		2476/-	234171
10/04/2019	Student Projects	Project Items		8400/-	225771
11/22/2019	SPIE Activity Grant (Current Year)		175350/-		401121
12/31/2019	Available Balance				401121
02/01/2020	Activities Listed in the Chapter report	Refreshments+ Travel+ Petty Items etc		50642/-	350479
01/20/2020	Workshop Attend	Poster + Participation fee		1245/-	349234
01/23/2020	Workshop Attend	Participation fee		2000/-	347234
02/07/2020	Workshop on PyRobot	Refreshments+ Kits on hire etc		11000/-	336234
02/22/2020	National Science Centre Visit	Refreshments		3557/-	332677
03/03/2020	SPIE Promotion Fest			3000/-	329677
03/11/2020	Student Projects	Items for the projects		105725/-	223952
	Anticipated Expenditure on SPIE Annual Fest scheduled on 03/31/2020	Refreshment+ Tent Arrangements+Printing +Contingencies+Material cost etc.		120000/-	103952
03/31/2020	Anticipated End of Year Balance				USD 1486

TENTATIVE PLANS FOR THE NEXT YEAR

S.No	Activity	Estimates	Remarks
1	Open SPIE day	Rs 5000/- (USD 70)	Promotion material, refreshments
2	Promotion material for distribution to other colleges and departments of University of Delhi	Rs 5000/- (USD 70)	Printing of A3 sized posters highlighting SPIE, student member benefits, proposed activities of the chapter, postage and transport
3	Council Elections	Rs 2000/- (USD 30)	Refreshments
4	Orientation day	Rs 2000/- (USD 30)	Organizing expenditure
5	Bi-monthly student projects demonstration and competition	Rs 10000/- (USD 150)	Printing of A3 posters (2) for promotion, refreshments, organizing expenditure, prizes, material cost
6	Student Projects	Rs 150000/- (USD 2100)	The student members work on projects related to the demonstration and understanding of nanotechnology, present generation solar cells, optics and photonics. The projects are chosen by them and approved by the faculty

			advisor. The stated amount is used for material cost.
7	Workshop I	Rs 50000/- (USD 700)	Refreshments, Travel, Contingencies, Material cost.
8	Excursion Trip I	Rs 10000/- (USD 150)	Visit to Planetarium The stated amount is used for Travel+ Refreshment+ Entry Fee
9	Excursion Trip II	Rs 75000/- (USD 1000)	Chapter members will be taken on an educational excursion to visit Research/Industrial organizations working in the area of optics and photonics. The stated amount is used for Travel+ Refreshment.
10	Workshop II	Rs 50000/- (USD 700)	Refreshments, Travel, Contingencies, Material cost.
11	SPIE Annual Festival	Rs 120000/- (USD 1700)	All the year round activities, projects done by the Chapter students as well as from outside will be put on display to the students of other colleges of Delhi University as well as schools. The stated amount is used for Printing, Material cost, Tents, Refreshments, Travel, contingencies
12	Lecture Series of Popular Professor and Academia/Industry	Rs. 15000/- (USD 200)	Refreshments
13	Student Lecture Series	Rs. 15000/- (USD 200)	Refreshments
	TOTAL	Rs.509000/- (USD7200)	
	Balance Funds Requested for 2020	USD 7200-1485-1700=4015	USD 4015

Conclusions and Recommendations

This year, our chapter has been quite active throughout the year and this was an individual effort of all chapter members in making that happen. So, we would like the team to be stronger and more responsible towards the society development. Students have begun their efforts in writing research papers and are still striving hard to reflect their work in publication. So, we are looking forward to augment the number of students researching on various topics.



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Grade "A" with score 3.31 | DBT Star College

Education Conclave 2018



Education Deconstructed: Dialogue with Experts

November 02, 2018 | 10:00 a.m. to 2:00 p.m.



Enabling Ecosystem



Student Empowerment



Research



Social Sensitization



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Social Sensitization

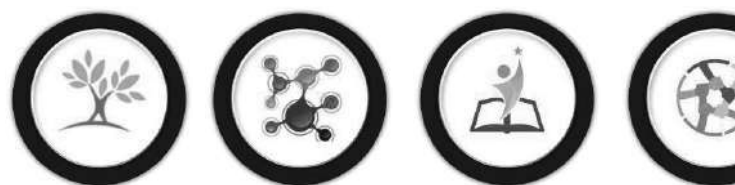
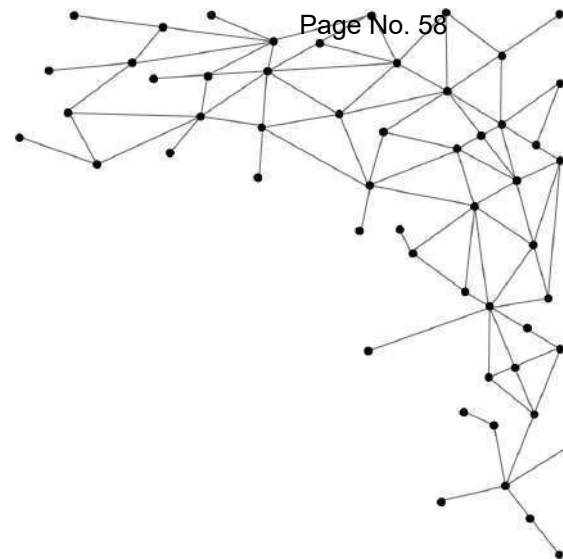


Education Deconstructed: Dialogue with Experts

November 02, 2018

10:00 a.m. to 2:00 p.m.

Visit: www.andc.du.ac.in



Acharya Narendra Dev College Eco-Club 'Paritantra'

Presents

BUTTERFLY CAMPUS COUNT



Date

September 17, 2018

Time

9:00 - 11:00 a.m.



September 2018

Breakfast with butterflies * Campus count * Origami

Photography contest * Walk like caterpillar

Big butterfly count * Butterfly gardening



✉ : cecbnhsdelhi@gmail.com | 8800748967 / 8800741864
f : Conservation Education Centre - ABWLS, Delhi. | @CECABWLS



ACHARYA NARENDRA DEV COLLEGE
(University of Delhi)

Presents

Workshop

ON

Awareness on

DIGITAL INDIA INITIATIVE

18th September 2018

Venue : New Seminar Room, Time : 9:45 AM to 12:45 PM

Organised

by

Department of Computer Science

(Under Star Scheme College, 2018 - 2019)

In Association with

CSC e - governance Services India Ltd

(Department of Electronics & Information Technology, Govt. of India)



ACHARYA NARENDRA DEV COLLEGE
(University of Delhi)
NAAC accredited 'A' grade



Department of Physics
(under the aegis of DBT STAR College scheme)
in collaboration with

Joy of Learning Foundation, Delhi
cordially invites students and colleagues to an
interactive session on

**'Paradigm shift in Physics Education
through hands-on techniques in Optics'**



Date: 05 & 07 September 2018 (Wednesday & Friday)

Time: 10.00 a.m.

Venue: Seminar Hall (new block)

Patron: Dr. Savithri Singh

Convener: Dr. Arijit Chowdhuri

Coordinators: Dr. Manisha Verma and Dr. Sanjeeta Rani



ACHARYA NARENDRA DEV COLLEGE
(University of Delhi)

Presents

WORKSHOP

on

FOSS & LINUX

28 - 30 August, 2018 & 04 September, 2018

Organised

by

DEPARTMENT OF COMPUTER SCIENCE
(Under Star College Scheme)



about 4 years ago

DLSA(SE) conducted by Legal Awareness Programme at Acharya Narendra Dev Collage, Delhi University, Kalkaji, New Delhi, On 11th August, 2018 under the Legal Awareness Programme of DLSA (South-East), Sh. Tarveen Singh Nanda, Advocate, Was the Resource Person of the Programme which was attended by more than 60 Students on the topic:- "E-Waste Management".



5 Comment 2

Acharya Narendra Dev College Internal Quality Assurance Cell

Report on Workshop
'Teachers as Mentors'

Held on 25.10.18

Session Details

An interactive session with faculty members to discuss and incorporate student mentoring as part of their teaching role and responsibilities.

All permanent teachers are requested to attend. Please enroll at the earliest.

Areas :

- What is mentoring?
- Qualities of a good mentor
- Mentor sensitization



"Teachers as Mentors"

Seminar Hall @ 11 am
25th October 2018



Internal Quality Assurance Cell

ACHARYA NARENDRA DEV COLLEGE
University of Delhi

B Y T E A M z y e g o

Resource Persons

- Mr. Arindam Sen(Zyego Co.)
ALS Wellness Network Pvt Ltd
H 1462, FF Chittaranjan Park
New Delhi 110019
- Ms. Tripti
College Counsellor

Interactive Session

How to help students cope with career and personal life issues which hinder their professional and personal development and emotional wellbeing.









SPIE. STUDENT CHAPTER
UNIVERSITY OF DELHI AT ACHARYA
NARENDRA DEV COLLEGE

**SPIE Student Chapter University of Delhi Acharya
Narendra Dev College with Department of Electronics
and DBT STAR College
presents**

**1 DAY PYTHON WORKSHOP IN COLLABORATION WITH
INDUSTRY PARTNER CODING BLOCKS**

WORKSHOP

CLICK HERE TO REGISTER

APRIL 3, 2019

www.spieandc.com



Teacher Coordinators : Dr. Amit Garg
Dr. Raveent Kaur

Student Coordinators : Mr. Prince Sharma

SPIE. www.spieandc.org





ACHARYA NARENDRA DEV COLLEGE
(UNIVERSITY OF DELHI)

DEPARTMENT OF ZOOLOGY

Under the aegis of DBT Star College Scheme

Organizes

Talk On

**“Non-Invasive Techniques as
Diagnostic Tools”**

&

Hands-On Training of

ELISA Technique

by

Mr. VIKAS SACHDEV

Department of Gastroenterology
All India Institute of Medical Science

DATE : February 13, 2019

Sessions	Time	Programme Details	Venue
I	11.00am	Talk	Conference Hall
II	01.00pm	Hands On	Zoology Lab

A ONE DAY WORKSHOP ON FOLDSCOPE

ORGANIZED BY
DEPARTMENT OF BIOMEDICAL SCIENCE
ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI
UNDER THE AGIES OF DBT, STAR COLLEGE SCHEME



February 02 2019

Registration
Last Date:
29/01/2019

10:00AM -01:00PM

Registration Link:

VENUE
Seminar Hall

<https://goo.gl/forms/ydGmhRkygxlwxc8f1>

Speaker:

Dr. Uma Chaudhary
Associate Professor
BCAS,
University of Delhi,

Patron
Dr. Ravi Toteja
Principal, ANDC

Convener
Dr. Sunita Jetly

Organizing Committee

Dr. Archana Pandey
Dr. Satendra Singh
Dr. Namita Singh

Dr. Abhishek Kr. Mehta
Dr. Rakesh Roshan
Dr. Abhijeet Mishra



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

Grade "A" by NAAC | DBT Star College

Organised by Department of Zoology & Botany
Under the aegis of DBT Star College Scheme



April 04-05, 2019

10:00 a.m.

Venue: Web Facilitation Centre

Workshop on Hands-on to Computational biology for (meta)genomic analysis



For Details visit

<http://andcollege.du.ac.in/>

PhiXGen Pvt. Ltd.



Acharya Narendra Dev College
(University of Delhi)
Govindpuri, Kalkaji, New Delhi- 110 019



Department of Biomedical Science
(Under the the aegis of DBT-Star College Scheme)

in association with

CSIR-Institute of Genomics and Integrative Biology, New Delhi
announces a two day workshop on

Learning R Programming Skills and Application to Proteomics

Date : March 15-16, 2019

Time: 10:00 AM onwards Venue: Web Facilitation Centre, ANDC

Chairperson:

Ravi Toteja, Acting Principal
ANDC, University of Delhi

Convener:

Gagan Dhawan
ANDC, University of Delhi

Resource Persons:

Debasis Dash
CSIR-IGIB, New Delhi

Rintu Kutum
CSIR-IGIB, New Delhi

Uma Dhawan
BCAS, University of Delhi

Gagan Dhawan
ANDC, University of Delhi

The present workshop will focus on computational analysis of proteomics data.

Hands-on computational sessions will include:

- ✓ Introduction to Git and Github
- ✓ Introduction to R: vectors, list, matrix and data.frame, for loops and functions.
- ✓ Project management with RStudio and GitHub
- ✓ Data manipulation with plyr and Data visualization
- ✓ Proteomics using Bioconductor
- ✓ Data visualization and manipulation for proteomics

Registration for the workshop is free. Limited seats available on first come, first serve basis.

Last date for registration: March 12, 2019, 12:00 noon

Selected participants will be informed by March 13, 2019

REGISTER @ https://docs.google.com/forms/d/1OfD7dFZB92CwDxVb_bGzHRiluaGs8XxyNc81Oh3oYKA/edit

Contact Information: Dr. Gagan Dhawan, Department of Biomedical Science, ANDC, University of Delhi
Mobile: +91-9891086006; E-mail: gagandhawan@andc.du.ac.in



Acharya Narendra Dev College

Department Of Biomedical Science



Organises
One day workshop
on

**FRAUD, FORGERY AND FORENSICS: EXAMINING HANDWRITING,
FINGERPRINTS AND SECURITY DOCUMENTS**

(Under the Ageis of DBT Star College Scheme)

3rd April 2019; 10:00 AM - 3:00 PM.

First come first serve basis, selected candiates will be informed through email



Use the given QR code for registration.



SPEAKER:
Sri J.K. SEMWAL

Patron:
Dr. Ravi Toteja

Convenors:
Dr. Archana Pandey
Dr. Sunita Jetly

Organising committee:
Dr. Abhishek Kr. Mehta
Dr. Satendra Singh

Dr. Rakesh Roshan
Dr. Namita Singh
Dr. Abhijeet Mishra

Mini Symposium on International Women's Day

Organized by CSIR

Acharya Narendra Dev College

8th March 2019, 2-4.30 PM



Dr N. KalaiSelvi

Director
CSIR-Central
Electrochemical
Research Institute

*Green Energy for
Clean India*



Dr Rina Singh

Scientist
CSIR-Central Road
Research Institute

*Nanotechnology for
Green Environment*



Dr Sheetal Gandotra

Scientist
CSIR-Institute of
Genomics &
Integrative Biology

*Learning from the
best: Mycobacterium
tuberculosis*



Dr Pranalee Thorat

Scientist
CSIR-National
Physical Laboratory

*History of Units of
Time and Frequency*

#WomenScientists #ScienceOutreach #ScienceCommunication



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

Grade “A” by NAAC | DBT Star College

organized by Departments of Botany, Chemistry,
Physics & Zoology
under the aegis of DBT Star College Scheme

June 18 – 24, 2019

Time: 9.15 a.m.

Interdisciplinary workshop “Learning Science by Doing Science”

Coordinator: Dr. RaviToteja

Department Convenors: Dr. Seema Makhija (Zoology),
Dr. Geetu Gambhir (Chemistry), Dr. Charu K. Gupta (Botany),
Dr. Arijit Chowdhuri (Physics), Dr. Pooja Bhagat (Chemistry)

For details visit - <http://andcollege.du.ac.in/>

Acharya Narendra Dev College

Under Aegis of DBT Star College Scheme
Department of Zoology, Physics, Botany and Chemistry

Interdisciplinary Workshop Learning Science by Doing Science June 18-22, 2019

Day	Time	Activity
Day 1 June 18, 2019	9:30 am-10:30 am	Talk: Significance and Estimation of Soil Carbon Sequestration in Field Crop Based Production System (Dr Tapan Purakayasth, IARI, Pusa Road) Venue: Committee Room
	10:30 am -10:45 am	Tea
	10:45 am -1:15 pm	Physicochemical Analysis of soil-Session I (Dr Pooja Bhagat) Venue: Chemistry Laboratory
	1:15 pm - 2:00 pm	Lunch
	2:00 pm -5:00 pm	Physicochemical Analysis of soil- Session II (Dr Geetu Gambhir) Venue: Chemistry Laboratory
Day 2. June 19, 2019	9:30 am -11:00 am	Talk: Introduction to Surface Plasma Resonance (Dr. Ayushi Paliwal, Department of Physics, Deshbandhu College) Venue: Committee Room
	11:00 am -11:15 am	Tea
	11:15 am -12:45 pm	SPR and sensing (Dr. Prashant Pradhan, Kusuma School of Biological Sciences, IIT Delhi) Venue: Committee Room
	12:45 pm -2:00 pm	Lunch
	2:00 pm -3:30 pm	Hands on Session I: Dr. Lokesh Rana, Department of Physics & Astrophysics, University of Delhi (1400 - 1530) Venue: Room No 52
	3:30 pm - 5:00 pm -	Hands on Session II: Mr. Jatinder Pal Singh, Department of Physics & Astrophysics, University of Delhi Venue: Room No 52
Day 3 June 20, 2019	9:30 am -10:30 am	Talk: Strategies for collection of samples (Dr Vipin) Importance of Site (Dr Vipin) Venue: Zoology Laboratory
	10:30 am -10:45 pm	Tea
	10:45 pm -11:45 pm	Metadata Collection (Dr Utkarsh) Storage and Transport of sample (Dr Utkarsh) Venue: Zoology Laboratory
	11:45-1:15	Preparation of chemicals (Dr Utkarsh and Dr Vipin) Calculation and importance of chemicals at particular steps Venue: Zoology Laboratory
	1:15 pm - 2:00 pm	Lunch
	2:00 pm -5:00 pm	Effect of Environmental degradation on plant health- estimating chlorophyll and ascorbic acid content (Dr Charu K Gupta and Dr Yash Mangla)) Venue: Botany Laboratory
Day 4 June 21, 2019	9:30 am -10:30 am	Talk: Connection between environmental and human microbiome (Prof Yogender Singh, Department of Zoology, University of Delhi) Venue: Committee Room
	10:30 am -10:45 am	Tea
	10:45 am -1:30 pm	Hands on Session I: E-DNA Isolation from water and soil sample

		using crude and kit methods (Dr Utkarsh and Dr Vipin) Venue: Zoology Laboratory
	1:30 pm -2:00 pm	Lunch
	2:00 pm -4:00 pm	Hands on Session II: Analysis of isolated DNA by Horizontal Gel Electrophoresis(Dr Utkarsh and Dr Vipin) Venue: Zoology Laboratory
	4:00 pm -5:00 pm	Hands on Session III: Quantification of isolated DNA by UV-spectrophotometer(Dr Utkarsh and Dr Vipin) Venue: Zoology Laboratory
Day 5 June 24, 2019	9:30 am -10:30 am	Talk: Metagenomics using marker genes – An introduction (Dr Utkarsh) Venue: Web Facilitation Centre
	10:30 am -10:45 am	Tea
	10:45 am -11:30 pm	Hands on Session I: Introduction to Linux (Dr Vipin) Venue: Web Facilitation Centre
	11:30-1:30	Data preparation (sequence trimming, quality filtering) Introduction to sequencing technologies adopted for metagenomics study (Dr Utkarsh) Venue: Web Facilitation Centre
	1:30 am -2:00 pm	Lunch
	2:00 pm -3:00 pm	Hans on Session II: Metagenomic assembly and diversity analysis -Amplicon sessions (Dr Utkarsh) Venue: Web Facilitation Centre
	3:00 pm-4:00 pm	OTU table construction OTUs classification and, OTU clustering) (Dr Vipin) Venue: Web Facilitation Centre
	4:00 pm-5:00pm	Evaluation of results from metataxonomic analysis (Dr Utkarsh) Functional profiling of amplicon data: beginning of shotgun analysis (Dr Utkarsh) Venue: Web Facilitation Centre

FACULTY DEVELOPMENT PROGRAM ON

EMOTIONAL INTELLIGENCE



01 & 02 April 2019 | Acharya Narendra Dev College, New Delhi

EMOTIONAL INTELLIGENCE



Emotional Intelligence

Course Overview

Emotional Intelligence (EI) is the ability to identify, assess, and control the emotions of oneself, of others, and of groups. We observe that the supposedly brilliant and well- educated people struggle to accomplish great things. We have seen that there are always those brilliant in the workplace, the ones who inspire others and seem to provide the momentum for the entire team. What makes great leaders truly extraordinary is not necessarily their IQ, but their EQ. Not education; neither experience nor knowledge completes the skill set required. Then what is it? It is almost always this concept called emotional intelligence.

Emotional Intelligence is so critical to success that it accounts for 58 percent of performance in all types of jobs says a research. Here is a workshop on Emotional intelligence that would help professionals, perform better, build lasting business relationships and serve the clients better.

Who is this Course for?

- College faculty who want to improve their EQ
- Faculties who are not able to control their emotions in class
- Faculties who are not able to control student emotions in class

Course Objective

On successful completion of the course, participants should be able to:

- To understand the significance of EI at workplace, and learn how to improve and apply Emotional intelligence at work
- To become emotionally intelligent personally and professional

Course Outline

The contents of this course are designed to support the course objectives. The following focus

Programme Details:

- > **Duration:**
2 Days
- > **Program Date**
01.04.19 and 02.04.19
- > **Timings:**
10:00 AM - 04:00 PM
- > **Venue:**
Acharya Narendra Dev College, New Delhi.
- > **To know more, contact:**
Lovetesh Kumar,
+91 6379900968
lovetesh@ictacademy.in
- > **Training Fee**
Free

REGISTER NOW

areas are included in this course:

- Module 1: Introduction
 - Introduction to Emotional Intelligence
 - Why EQ matters more than IQ?
 - Roles of EQ in workplace
- Module 2: Knowing Emotions
 - Knowing different emotions
 - Becoming aware of your emotions
 - Being sensitive to self and others
- Module 3: How Emotional Intelligence you are?
 - EQ Test
 - Improve your EI
 - Developing EI will impact on all areas of life
- Module 4: Road blocks to effective communication
 - Self-management
 - Emotional resilience
 - Personal power
 - Goal directedness
 - Flexibility
 - Personal connections
 - Self-awareness
 - Self-Regard
 - State of emotional mastery.
- Module 5: Classroom Intelligence
 - Building trust
 - Making students emotionally intelligent
 - Dealing with Difficult Students
 - Behavior Management
- Module 6: Stress Management
 - Basics of Stress
 - Types of Stress faced by Faculty

We request you to nominate 1 or 2 faculty members from your institution.

Registrations are open for ICT Academy Member institutions on first-come, first-serve basis





ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

NAAC accredited 'A' grade



Department of Physics

(under the aegis DBT STAR College scheme)

welcomes all students and colleagues to the Interdisciplinary

Workshop - "Learning Science by doing science" :
Lecture Series and Hands-on Skillset development

18 - 22 June 2019



Dr. Prashant Pradhan – 'SPR and sensing'

Kusuma School of Biological Sciences, IIT Delhi

Hauz Khas, New Delhi – 110 016



Dr. Lokesh Rana – 'Hands-on Session on SPR sensing'

Faculty, Department of Physics, Zakir Husain College,
University of Delhi

Dr. Ayushi Paliwal – 'Introduction to Surface Plasma Resonance'

Faculty, Department of Physics, Deshbandhu
College, University of Delhi



19 June 2019

09.00 a.m.

**Committee
Room**


ACHARYA NARENDRA DEV COLLEGE

University of Delhi

Grade "A" by NAAC | DBT Star College

Interdisciplinary Workshop

"Learning Science by Doing Science"



Organized by
Department of Biomedical Science,
Botany, Chemistry, Physics & Zoology
Under the aegis of DBT Star College
Scheme

"Connection between
Environmental and Human
Microbiome"

Talk by

Prof. Yogendra Singh



ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31
NIRF RANKING-27 | DBT STAR COLLEGE

Department of Biomedical Science
presents

**A talk on Silver Nanoparticles:
Biosynthesis Therapeutic Applications**

Dr. Surender Nimesh
Department of Biotechnology
Central University of Rajasthan

10 AM ONWARDS

Date:- March 29, 2019

Venue:- Seminar Hall

DEPARTMENT OF BOTANY

Organizes

SAUMYA SAXENA MEMORIAL LECTURE

**A LECTURE ON BIONICS AND BIONIC
ENGINEERING: LEARNING SCIENCE FROM
NATURE**

GUEST SPEAKER

Dr. Pradeep Kumar Srivastava

CDRI, Lucknow

DATE: March 26, 2019

TIME: 10 AM

VENUE: SEMINAR HALL



ACHARYA NARENDRA DEV COLLEGE
(University of Delhi)
NAAC accredited 'A' grade



Department of Physics

(under the aegis DBT STAR College scheme)

welcomes all students and colleagues at the inauguration of its society function **PHYSENTROPY 2019** with Lecture series



Prof. Vinay Gupta - 'Functional Materials for Device Applications'

Dean Examinations & Professor at
Department of Physics & Astrophysics, University of Delhi

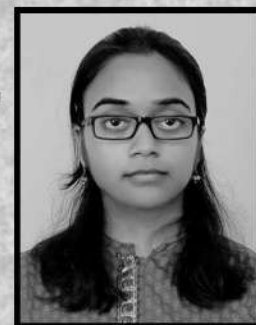


Mr. Sujit Kumar – 'MoS₂: a promising 2D Material'

- a) Visiting Scholar at National Device Laboratory, Taiwan
- b) Taiwan Semiconductor Manufacturing Company (TSMC)

Ms. Phalguni Mathur – 'MIMO antennas for 5G and IoT'

- a) Research Scholar at Bharathiar University, Coimbatore
- b) Specialist in Microwave Electronics and RADAR Systems



15 March 2019

10.00 a.m.

Laboratory - III



ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI

Matrix

The Mathematical Society

presents

Motivational talk

Dr. Sohanpal Yadav



**POWER OF
POSITIVE
THINKING**

Date: 13 March 2019

Time: 12:00 PM

Venue: Seminar Hall

For queries, Please Contact:

Junaid
(President)
9717095272

Sanjana
(Vice President)
8816877583

Yashodhara
(Secretary)
8279831760

Gaurav
(Treasurer)
7838240469



ACHARYA NARENDRA DEV COLLEGE



NICHE
THE ZOOLOGICAL SOCIETY

Under the aegis of DBT Star College

SYMBIOX

PRESENTS

SCIENTIFIC TALK

ON

Malaria elimination in India:

Role of vector control

by

Dr. Kamaraju Raghavendra

Scientist 'G' (Director Grade)

Indian Council of Medical Research

National Institute of Malaria Research

Department of Health Research, Gol

Sector 8, Dwarka, Delhi 110 077

INDIA

19th February' 19

Time: 10am

Venue: Seminar Hall



Acharya Narendra Dev College
(University of Delhi)

परिचय

Feb 14, 2019

The Botanical Society

TARUMITRA



A TALK ON

Computational Gastronomy

The emerging data science of food,
flavors and health.



By: Dr. Ganesh Bagler

Assistant Professor
Indraprasth Institute of Informational
Technology Delhi

Time : 10:00 am
Venue: Seminar Hall



Acharya Narendra Dev College
Department of Computer Science
(Under the Aegis of DBT Star College Scheme, 2019)

presents

TechOUT@k

On

Chaos Engineering

'WHY BREAKING THINGS SHOULD BE PRACTISED'

BY

Jitender Singh
Sr. Principal Software Engineer
(CaaStle Technology)

TIME
9AM



www.overloaddd.cf

VENUE
SEMINAR HALL

15TH FEBRUARY 2019

OUR CORE

Saumya Jaiswal
(7355588050)

Kishan Sharma
(9540911242)

Gaurav Jha
(8076494195)

Shobhit Gupta
(8826612056)

Vaibhav Singh
(9935367347)



@overloadpp

EMAIL : overloadplusplus@gmail.com

EDUCATION PARTNERS

LANDMARK INSTITUTE

MAAC

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DE|DU EXPRESS

DU Lead

DU Lead





ACHARYA NARENDRA DEV COLLEGE

(UNIVERSITY OF DELHI)



ABHIKRIYA

THE CHEMISTRY SOCIETY
Under aegis of
DBT STAR COLLEGE SCHEME
presents:

INQUIZITORS
(QUIZ)
12:00PM

ART ATTACK
(POSTER MAKING
COMPETITION)
12:00PM

SYNERGIA'19

WEDNESDAY, 13 FEBRUARY 2019

ChemRing
(Fun Game)
Venue : Chemistry
Department
1:00PM onwards

GUEST LECTURE BY

CHEM-O-FROLIC
(FUN GAMES)
2:00PM

DHANANJAY V. GADRE

Associate professor, ECE Division
Coordinator, Centre for Electronics Design and Technology, Director,
TI Centre for Embedded Product Design,
Netaji Subhas University Of Technology.

10:00am

ATTRACTIVE
PRIZES!!!



FOR REGISTRATIONS AND QUERIES

Nearest metros
GOVINDPUR!

Dr. PANKAJ KHANNA
(TEACHER CONVENOR)
9818009250

RAHUL VERMA
(PRESIDENT)
9599345548

M.J. ZEESHAN
(SECRETARY)
9504988932

BHARAT DIXIT
(TREASURER)
7906585963

ACHARYA NARENDRA DEV COLLEGE UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31
NIRF RANKING-271 DBT STAR COLLEGE

Department of Chemistry
presents

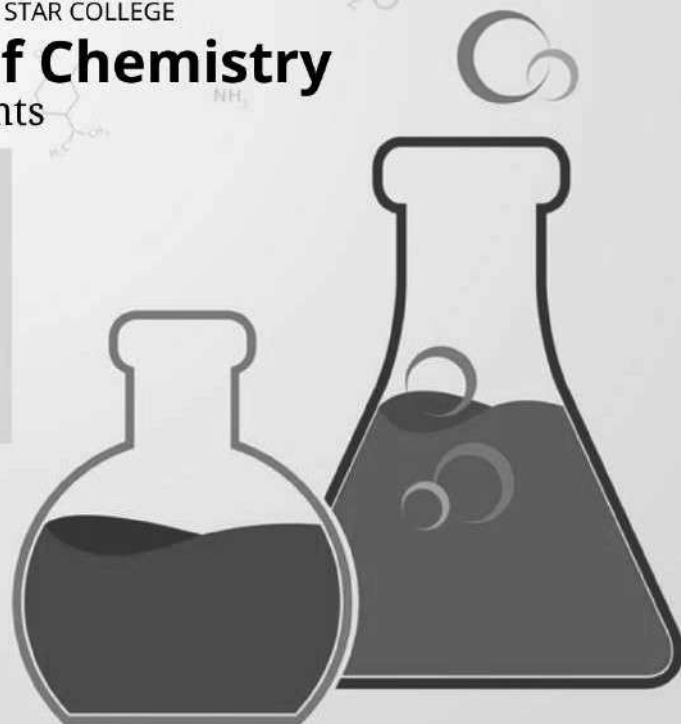
**CAREER COUNSELING
AND
FUTURE FOR CHEMISTRY STUDENTS**

Mr. Neeraj Kansla

Date:- February 08, 2019

Venue:- Seminar Hall

10 AM ONWARDS





ACHARYA NARENDRA DEV COLLEGE UNIVERSITY OF DELHI



ACCREDITED 'A' GRADE BY NAAC SCORE 3.31
NIRF RANKING-24 | DBT STAR COLLEGE

Department of Computer Science

(under the aegis of DBT STAR College scheme)

Presents

Top Careers in IT in 21st Century

PROF. R. CHADHA
(LANDMARK INSTITUTE)

Date :- February 06, 2019

Venue :- Seminar Hall

Time :- 10 AM ONWARDS



**ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI**

**ELECTRONICA SOCIETY UNDER AEGIS OF
DBT STAR COLLEGE SCHEME
ORGANIZES**

SATELLITE COMMUNICATION

**A TALK BY
PROFESSOR MRIDULA GUPTA
DEPARTMENT OF ELECTRONIC SCIENCE
UNIVERSITY OF DELHI
SOUTH CAMPUS**



THURSDAY | JANUARY 31, 2019

10:00 AM

CONFERENCE HALL



**ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI**

**ELECTRONICA SOCIETY UNDER AEGIS OF
DBT STAR COLLEGE SCHEME
ORGANIZES**

SATELLITE COMMUNICATION

**A TALK BY
PROFESSOR MRIDULA GUPTA
DEPARTMENT OF ELECTRONIC SCIENCE
UNIVERSITY OF DELHI
SOUTH CAMPUS**



THURSDAY | JANUARY 31, 2019

10:00 AM

CONFERENCE HALL



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

NAAC accredited 'A' grade



Department of Physics

(under the aegis DBT STAR College scheme)

is privileged to host



Prof. Hark Hoe Tan

Professor at Research School of Physics and Engineering,
at Australian National University, AUSTRALIA

The Department cordially invites all students and
Colleagues to an interactive session on

"Nanotechnology – applications in Optoelectronics and Renewable Energy"

Date: 31 January 2019 (Thursday)

Time: 10.45 a.m.

Venue: Laboratory 3, Department of Physics



CATHEXIS '19



DEPARTMENT OF BIOMEDICAL SCIENCE ACHARYA NARENDRA DEV COLLEGE

(UNIVERSITY OF DELHI)
(UNDER THE AEGIS OF DBT-STAR COLLEGE SCHEME)



“Demystifying Myths Surrounding Human Health”
By
Dr. Anurag Agrawal
(Director IGIB, CSIR)

President Komal Pakodhar (7011212573)	Vice President Hitesh Nagila (9456165422)	Treasurer Swarnasankha Acharjee (7005273380)	Co-ordinator Shubham (9205632889)
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WHEN?
January 31st
2019

WHERE?
SEMINAR HALL,
ANDC

REGISTRATIONS:
9.30 AM ONWARDS

EVENTS:

BioMeR Release

Treasure Hunt

Quiz

Science Charades



TARK

**The Debating Society, ANDC
presents**

**Motivational Talk
&
Interactive Session
by**

IRA SINGHAL

(UPSC CSE TOPPER)

**Date: 24th January 2019
Time: 10 A.M.
Venue: Seminar Hall**

**For further details:
Shrishti Kumar
(Student Convener)
81309 82221**



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

NAAC ACCREDITED : 'A' Grade

MATRIX - The Mathematical Society

Presents

INFINIX 2K18

1st November 2018

Venue : Seminar Hall, Time : 09 : 00 AM Onwards

EVENTS



QUIZZTECH
MAGIC SQUARE GAME
GUEST LECTURE
JUST A MINUTE PLEASE (JAM)

GUEST LECTURE



"Continuity and Uniform Continuity"
by
Prof. Ajay Kumar
(Faculty of Mathematics at University of Delhi)

For Queries & Registration Contact :

Neeraj Varshney
(Student Convenor)
9953297455

Mohd. Junaid Alam
(President)
9717095272

Sanjana Bhardwaj
(Vice-President)
8916877583

Yashodhara
(Secretary)
8279831760

Gaurav Vyas
(Treasurer)
7838240469

Lokesh Meena
(For Registration)
9667019760

SPONSORS

CASIO



For Registration :



MEDIA PARTNER



DU REFRESH NEWS

ACHARYA NARENDRA DEV COLLEGE
(UNIVERSITY OF DELHI)



Sashakt

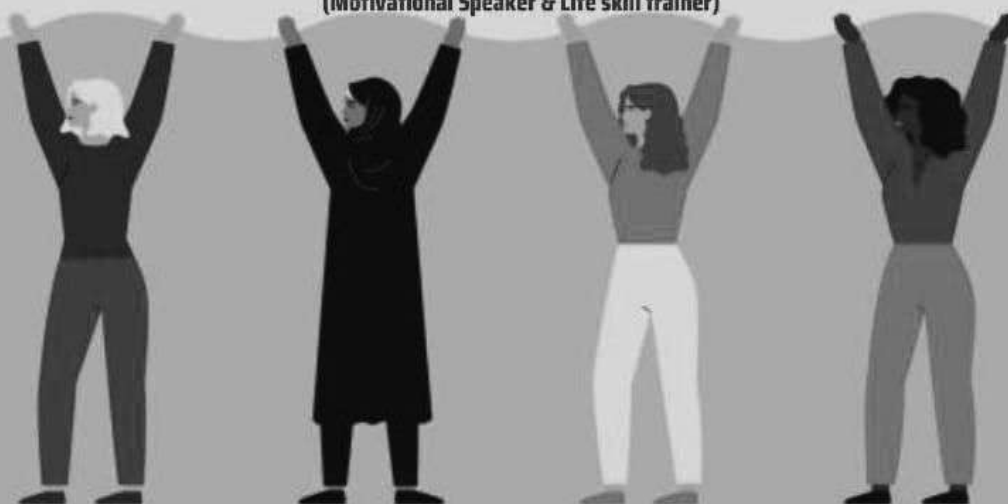
The Women Empowerment Society

PRESENTS

Interactive Talk on Empower HER Stories

Ms. Anju Kumari

(Motivational Speaker & Life skill trainer)



Seminar Hall, ANDC



29th October 2018

12.30 P.M

Dr. SAVITHRI SINGH
(PRINCIPAL)

DR. GEETIKA KALRA
(CONVENOR)



TARUMITRA
The Botanical Society
of



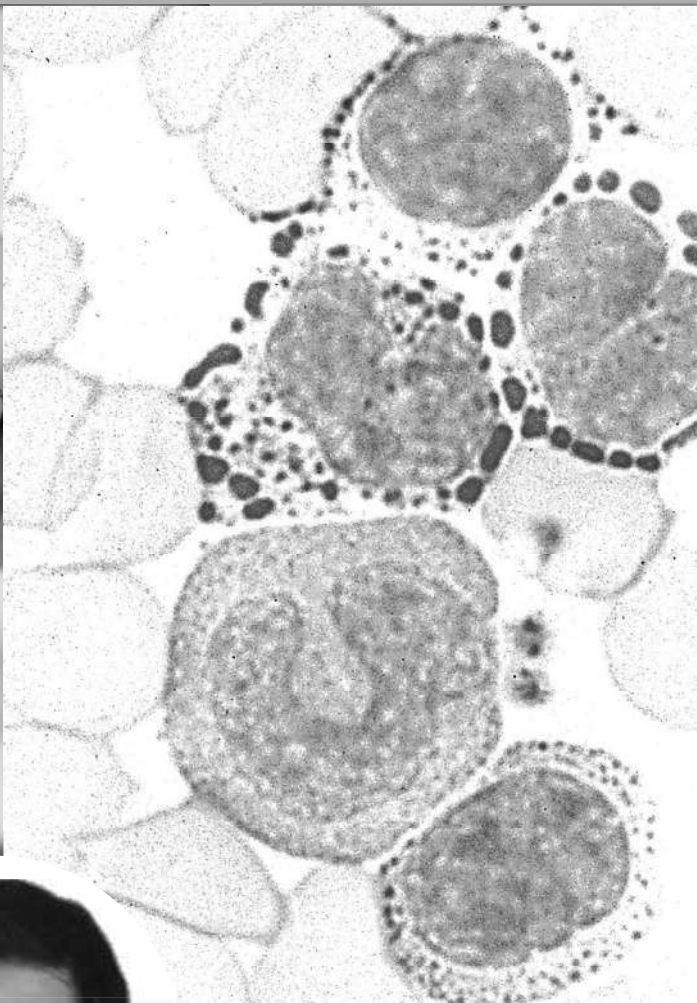
ACHARYA NARENDRA DEV COLLEGE

University of Delhi

Accredited "A" Grade by NAAC with a score of 3.31 | DBT Star College

Organizes a Talk on

**Interesting Advances in Haemoglobin Research:
Beyond the Textbook**



Professor Suman Kundu
Department of Biochemistry,
South Campus
University of Delhi



11th October
2018; 11:00 a.m.
Venue: Seminar
Hall



ACHARYA NARENDRA DEV COLLEGE Page No. 104



UNIVERSITY OF DELHI
ACCREDITED 'A' GRADE BY NAAC SCORE 3.31
NIRF RANKING-20 | DBT STAR COLLEGE

NICHE

DEPARTMENT OF ZOOLOGY

Organizes

A TALK ON CONTEMPORARY APPROACHES IN ANTI-MALARIAL DRUG DISCOVERY

GUEST SPEAKER

Dr. Shailja Singh

Associate Professor

Special Center for Molecular Medicine, JNU

DATE: October 10, 2018

TIME: 10 AM

VENUE: SEMINAR HALL

Acharya Narendra Dev College

Zoological Society “Niche” Inaugural Talk – 2018

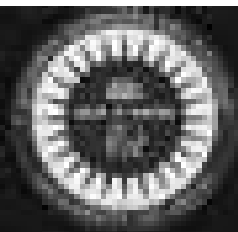
Niche, the Zoological Society of Acharya Narendra Dev College organized its inaugural talk on October 10, 2018 under the aegis of DBT Star scheme. Eminent researcher Dr. Shailja Singh, Associate Professor, Special Center for Molecular Medicine, Jawaharlal Nehru University was invited as the guest speaker. The event started with the lighting of lamp of knowledge which was followed by welcome address by the Principal, Dr. Savithri Singh.

The guest speaker, Dr. Shailja Singh, delivered an enchanting talk on ‘*Contemporary Approaches in Antimalarial Drug Discovery*’. She explained the mechanism of *Plasmodium* parasite infection in human beings and the phases/proteins in parasite life cycle that can be used as the target for formulating antimalarial drug. She discussed how natural chemical diversity can be explored by modernized and systematic approaches to develop novel compounds for combating malaria. The talk was concluded with motivation of students where she explained the qualities of a good researcher: interest, inquisitiveness, commitment, excelling, knowledge, recognition, scholarly approach and integration. The talk was followed by a brief interactive session where Dr. Singh answered the students’ queries with respect to her talk and other scientific phenomena. The session was concluded with a vote of thanks to Dr. Shailja Singh for delivering a very informative and engrossing talk. The Principal and the administrative staff of the college were also thanked for providing support, infrastructure and facilitating the smooth conduct of the event.

A few pics of the event are as follows.







ACHARYA NARENDRA DEV COLLEGE
(University of Delhi)

PRESENTS

**CLOUD LITERACY
DAY**

For College Students

(9th October, 2018)

Organised by

Department Of Computer Science
(Under Star College Scheme)

Invited Speaker:

Mr. Lovetesh

Member, ICT Academy

Event Incharge:

Dr. Preeti Marwaha



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

NAAC accredited 'A' grade



Department of Electronics

(under the aegis of DBT STAR College scheme)

cordially invites you to a lecture by

Mr. Rohit Gambhir

Lead, Mobile Application Development, QA Infotech

On

Current Trends in Mobile Application Development

Date: 20th September, 2018 (Thursday)

Time: 9:30 A.M.

Venue: College Conference Hall



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

NAAC ACCREDITED : 'A' Grade

Department of Computer Science

(Under the Aegis of Star Scheme College, 2018 - 2019)

Turing Society Presents

TECHNICAL TALK

ON

TURING TEST TO DEEP LEARNING

19th September 2018

Venue : Conference Room , Time : 10:00 AM Onwards

SPEAKER :

(Prof.) Dr. Vasudha Bhatnagar
(Head, Department of Computer Science, DU)

Dr. Savithri Singh
(Principal)

Dr. Chandra Kanta Samal
(Convenor, Turing Society)



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

Accredited "A" Grade by NAAC with a score of 3.31

DBT Star College



TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE

An autonomous institute of
Department of Biotechnology
Ministry of Science and Technology
Govt. of India



Science *Setu*

A program to build bridge between
ANDC students-faculty &
THSTI scientists

Venue: SEMINAR HALL, ANDC | Date: August 30, 2018

Scientific Lectures & Interactive Sessions

ACHARYA NARENDRA DEV COLLEGE

University of Delhi

Accredited "A" Grade by NAAC with a score of 3.31 | DBT Star College



TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE

An autonomous institute of Department of Biotechnology
Ministry of Science and Technology, Govt. of India



SCIENCE SETU

Venue: SEMINAR HALL, ANDC | Date: August 30, 2018



A program to build bridge between
ANDC students-faculty &
THSTI scientists

**Scientific Lectures &
Interactive Sessions**

Visit: <http://andcollege.du.ac.in/>



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University of Delhi

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&



TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE

An autonomous institute of Department of Biotechnology
Ministry of Science and Technology, Govt. of India

SCIENCE SETUP PROGRAMME

Venue: SEMINAR HALL, ANDC | Date: August 30, 2018

10.00 -10:15 AM *Welcome Address*
Dr. Savithri Singh
Principal, ANDC



10.15 -10:45 AM *Biomarkers in Health & Disease*
Dr. Pallavi Kshetrapal,
Ramalingaswamy Fellow, THSTI



10.45 -11:15 AM *Development origins of Health
and Disease*
Dr. Shailaja Sopory
Scientist E, THSTI



11.15 -11:30 AM *Tea & Coffee Break*

11.30 -12:00 AM *Skeletal muscle physiology in
wellness and being*
Dr. Suchitra Devi Gopinath,
Iyba Fellow, THSTI



12.00 - 12:45 PM *Debate*
Pursuing future careers in science in
India vs abroad

12.45 -01:00 PM *Vote of thanks*

Visit: <http://andcollege.du.ac.in/>



ACHARYA NARENDRA DEV COLLEGE
(University of Delhi)

NAAC ACCREDITED : 'A' Grade

Department of Computer Science

(Under the Aegis of DBT Star Scheme College , 2019-2020)

PRESENTS

ONE DAY WORKSHOP

On

MACHINE LEARNING USING PYTHON

04 MARCH 2020

Venue : WFC , Time : 10 : 00 AM Onwards

SPEAKER

PROF. R.K. AGARWAL

(SCHOOL OF COMPUTER AND SYSTEM SCIENCE, JNU)



SPIE. STUDENT CHAPTER
UNIVERSITY OF DELHI AT ACHARYA NARENDRA DEV COLLEGE



2019 SPIE Student Chapter Annual Report



Prepared by:
Prince Sharma
Chapter President
+
Dr. Amit Garg
Faculty Advisor

Executive Summary:

The Univ. of Delhi at Acharya Narendra Dev College Chapter was established in August 6, 2010. After 10 years from then, this chapter is a family of 122 student members. We hold weekly meetings where SPIE members get together and discuss and share their works and hold discussion on various topics related to Optics and Photonics. The purpose of University of Delhi at Acharya Narendra Dev College SPIE Student Chapter is to promote optics and photonics among undergraduate students by providing valuable academic career development through conducting various events, workshops, competitions and activities. Our chapter has brought awareness among students at undergraduate levels with the importance of light-based technologies. This year, our chapter successfully utilized Visiting Lecturer Grant to invite an eminent scientist Prof. Marija Strojnik. Also, the chapter organized Council of Scientific and Industrial Research (CSIR) Lab Visits for the students to see things practically out of the books.

Contact Information:

For general questions about our chapter, please email our chapter advisor, Dr. Amit Garg, at amitgarg@andc.du.ac.in

Facebook Page: <https://www.facebook.com/spieandc/>

Instagram Page: https://www.instagram.com/spie_andc/

2018 - 2019 Officer Listing:



Rohit Saini
President
3rd Year Bachelor's Student
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he/his/his



Chiradeep Das
Vice-President
3rd Year Bachelor's Student
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Ritesh Raj
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Hardik Minocha
Vice-President
2nd Year Student
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He/his/his

FACULTY ADVISOR



Dr. Amit Garg

2019 – 2020 Officer Listing:



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3rd Year Student
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He/his/his



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Vice-President
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She/her/hers



Avinash Kumar
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He/his/his



Gaurav Lohkna
Treasurer
2nd Year Student
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He/his/his

FACULTY ADVISOR



Dr. Amit Garg

Student and Community Membership

At the time of this report, there are 108 student members affiliated to the Univ. of Delhi Acharya Narendra Dev College Chapter.

Name	Email ID	Expected Grad Month/Year	SPIE Expiration Date
Mr. Hrithik k p	kphrithik@gmail.com	Jun-22	02-Oct-20
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Mr. Abhishek Pal	abhi.pal00@gmail.com	Jun-21	02-Oct-20
Mr. Pratyush Jangpangi	jangpangi17@gmail.com	Jun-21	02-Oct-20
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Mr. Rohit Saini	rohitsaini433@gmail.com	Jun-19	13-Apr-20
Mr. Prince Sharma	princesharma2899@gmail.com	Jun-20	16-Oct-20
Mr. Hardik Minocha	hardikminocha@gmail.com	Jun-20	11-Jun-20
Mr. Ritesh Raj	riteshraj090@gmail.com	Jun-19	13-Apr-20

Activities Report

Wonders of Optics 2019

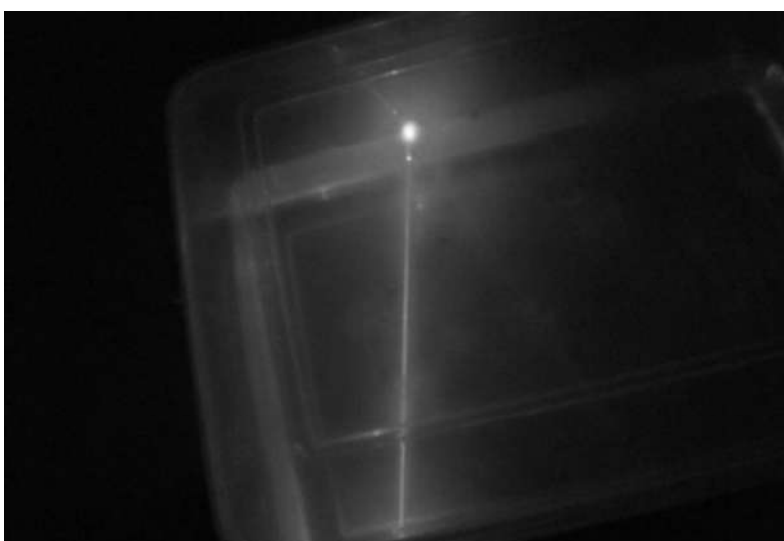
Organizer: Amit Garg, Faculty Advisor

Date/Time/Location: January 24, 2019 from 10am -5 pm in Conference Lab

Participants: 50 students (They were undergraduates, few of them from outside our chapter)

Cost: \$100

A hands-on workshop on “Paradigm Shift in Physics Education through hands-on techniques in OPTICS” was organized on the 24th January 2019. The workshop conducted in collaboration with “JOY OF LEARNING FOUNDATION, DELHI”. The SPIE members were divided into a group of 4 to attend the workshop. The attendees were given hands on training and were introduced to various concepts of physics mostly related to optics. The workshop event was free for all the SPIE members and it has 50 participants. The workshop was successful in achieving its goal of imparting basic knowledge and igniting interest among students about OPTICS.



SPIE Structured Light OPIC 2019

Organizer: Dr. Catherine Berdanier, SPIE

Date/Time/Location: April 21-26, 2019 in Yokohama, Japan

Participants: Mr. Rohit Saini from our chapter and other leaders and research scholars from different chapters

Cost: \$ Supported by SPIE, USA Officer’s Travel Grant

The 2019 SPIE Structured Light OPIC (Optics and Photonics International Congress) programme along with SPIE leadership workshop was held in April, 2019 in Yokohama, Japan. Mr. Rohit Saini, B.Sc. (Hons.) Electronics III Year student attended that conference from April 21-26,2019. He was awarded the Officer’s Travel Grant to attend the SPIE Leadership workshop along with OPIC. He was a part of IoT-SNAP2019 International conference which was majorly about the modern technologies and many technical papers were presented there from leading companies and professors. The leadership workshop was a really good experience. The chapter leaders joined that workshop across all over the world. Everyone has their own chapter posters enlightening about their works, promotions and research they have done so far throughout the year 2018-2019. We have also participated in some lectures and activities conducted by Dr. Catherine Berdanier. These activities were really good to develop our communication presentation and writing skills. Few of them were senior and guided him for future studies and he also met directors and manager of Japanese companies. They motivated him for bright future. OPIC fair was the best part of conference leading companies were to present their new products and development they have done so far. According to Rohit, attending 2019 SPIE Structured Light programme was a wonderful experience for him and shared his experience with all the members in our chapter so it was worth for them also.



8051/52 Embedded Systems - ROBOTHLON'19

Organizer: Robosapiens India

Date/Time/Location: October 4, 2019 from 9 am - 5 pm at IIT Delhi

Participants: 2 students from the chapter (They were undergraduates)

Cost: \$100

The workshop mainly focused on the students eager to learn about Embedded System using 8051. This was a chance provided to them to expand their knowledge in the field of designing, construction, operation, and application of Embedded System with real time practical experience using Robosapiens 8051 Development Board. The duration of this workshop was 1 day, with 2 Sessions, properly divided into theory and hand on practical sessions. Our chapter fully funded the two of its members, Mr. Hardik Minocha and Mr. Prahlad Prajapat to attend this workshop. The students had their projects running under the chapter which required knowledge in Embedded Systems using 8081. Some of the practical mini projects were writing "LED BLINKING" Code in Embedded C, Displaying and Blinking Text, Scrolling Text, Automatic Counting of Numbers using LCD. After attending the workshop, they helped other students working on various areas and propagated their knowledge in the meetings with other members of the chapter.



SPIE Orientation Programme 2019

Organizer: Acharya Narendra Dev College

Date/Time/Location: July 22 - 23, 2019 from 12-3 pm in Computer Lab, New Building

Participants: 6 members from the chapter and audience were freshers of the college.

Cost: \$100

A two-day Orientation Program from July 22 – 23, 2019 was organized in four sessions each day to aware the newly joined students of the college about the activities of the SPIE Society. A team of potential members in the chapter and newly elected officers led by Prince Sharma, Chapter president 2019-20 and Avinash Kumar Lal, Chapter Secretary 2019-20 told freshers everything about the existing SPIE society in the college interactively right from the basics to the pre-accomplished projects. The team apprised them about the recent activities organized by the chapter and freshers were told about the importance of Optics and Photonics which is applied everywhere in the world and also realized them how important it is work in the advancement of Optics and Photonics. It was fun and interactive session with the new curious minds.



Optical Color Mixing Workshop cum Introductory session with Freshers

Organizer: Prince Sharma, President 2019-20; Hardik Minocha, Treasurer 2018-19; Amit Garg, Faculty Advisor

Date/Time/Location: August 9, 2019 from 1-5 pm in Seminar Hall, New Building

Participants: 110 students (Most of them were newly joined society members)

Cost: \$100

It was specifically organized to give new members the practical idea of what the society is all about. The session started by address and welcome of the new members by the newly elected President, Mr. Prince Sharma. At the start, he quickly reviewed everything about the society that was already told in orientation sessions making convenient for those who could not attend it. He introduced other chapter officers and some potential members and later, he placed the upcoming yearly plan of the society in front of the students and kept some milestones with the team. The session was quite motivating which encouraged them to show active participation in society. The second session was of the workshop where Mr. Hardik Minocha with his team gave theoretical explanation of Colors and emphasized on the difference between Optical and Pigment Colors. Students were given the practical overview of how Red, Green and Blue are mixed together to generate different colors. It was no doubt knowledgeable and interactive session with the students.



Excursion Trip to Nehru Planetarium

Organizer: Amit Garg, Faculty Advisor

Date/Time/Location: August 29, 2019 from 10-5 pm at Nehru Planetarium, New Delhi

Participants: 80 students (All were the chapter members)

Cost: \$200

Field trips connects students to the real world. It awakens the student's interest to learn and get new learning information, no matter how boring the subject is in theory. Considering the same, SPIE Student Chapter conducted an excursion trip to Nehru Planetarium which brought curiosity among students in Astronomy – Astronomy telescopes, stars, and galaxies which is one of the core parts in the field of Optics and Photonics. This facilitated fast and efficient learning among students. SPIE fully funded the tickets and travel for the excursion trip to Nehru Planetarium. Sky theatre was the prime attraction to the students. The dome-shaped theatre displayed information on planets, constellations, and stars. The information was beautifully presented with the help of computer animations, video clippings and special effects. Various programmes was created with these objects to display astronomical information in the Sky Theatre. One of the other major attractions in the planetarium was Soyuz T-10 which was used by Rakesh Sharma, the first Indian cosmonaut, to travel to space.



Arduino Masterclass

Organizer: Elecbits (<https://www.linkedin.com/company/elecbits/about/>), Amit Garg, Faculty Advisor

Date/Time/Location: September 7, 2019 from 1-5 pm in Seminar Hall, New Building

Participants: 100 students (Most of them were chapter members, few of them were from outside the chapter)

Cost: \$100

A hands-on workshop on Arduino was organized in association with Elecbits which included Introduction to Arduino, building an Arduino Instant Messenger, Weather Station, own Disco Light and building an Ultrasonic Radar. This workshop kickstarted the minds of freshers to start working on their own projects and make something creative out of their curious minds with the existing technologies.



Fourth Lecture Workshop on Transdisciplinary Areas of Research and Teaching

Organizer: Amit Garg, Faculty Advisor

Date/Time/Location: September 27 – 28, 2019 at DDUC, University of Delhi

Participants: 14 students (All were chapter members)

Cost: \$100

14 Students attended a DST (Department of Science & Technology, Government of India) Sponsored Fourth Lecture Workshop on Transdisciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees held on 27th and 28th September. The series of lectures included talks on Mathematical Modelling, Photonics Revolution, Evolution of Quantum Theory & Entanglement, etc. from scientists and personalities of various fields. Among the famous personalities, Prof. Anurag Sharma, who is also a faculty advisor at IIT Delhi Student Chapter delivered his enlightening talk on Optics and Photonics. Students from our chapter interacted with him and asked curious questions that was aroused from his lecture. Prof. Ajoy Ghatak delivered his talk on the Evolution of Quantum Theory & Entanglement. Other Shant Swaroop Bhatnagar Awardees were Dr. Jitendra Nath Goswami, Dr. G. Narahari Sastry, Prof. Balasubramanian Sundaram. Students were selected on the basis of their involvement in society for attending the lecture workshop.



DST Sponsored Fourth Lecture Workshop Trans-disciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees September 27-28, 2019 <small>Jointly Organized by</small> National Academy of Sciences India, Allahabad – (NASI) – Delhi Chapter Science Foundation, Deen Dayal Upadhyaya College, University of Delhi (Under the aegis of DST Star College Program) Dwarka, Sector-3, New Delhi 110078 Land Mark – Near NCT and nearest Metro Station – Dwarka Mor	
Theme of the Workshop The Workshop is of multidisciplinary nature and will cover the discipline of science and engineering and is intended to expose undergraduate students and faculty members to thrust areas of research with emphasis on indigenous problems.	
September 27, 2019 (Friday) 09:00 am – 09:45 am Registration 09:45 am – 10:00 am Inauguration Session Coordinator(s) : Dr. Manoj Anand Wagh and Dr. Phoom Geng Mathematical modelling as a transdisciplinary framework and its applications to neuroscience Professor Kamesha, FNASc and Shanti Swaroop Bhatnagar Awardee - Mathematical Sciences 2983 Distinguished Professor, Dept. of Computer Science and Engineering, School of Engineering (SOE), Shiv Nadar University 11:00 am – 12:00 pm Session Coordinator(s) : Dr. Kulvinder Singh and Dr. Deepak Jethi Dr. Jitendra Nath Goswami, FNA, FNASc, FPMAS, FASc Shanti Swaroop Bhatnagar Awardee - Earth, Atmospheric, Ocean and Planetary Sciences 2994 Physical Research Laboratory, Naraina, New Delhi, India 12:00 pm – 12:30 pm High Tea Time 12:30 pm – 01:30 pm Session Coordinator(s) : Dr. Pooenam Kozuri and Dr. P. K. Badi Evolution of Quantum Theory & Entanglement Professor Ajay Ghatak, FNASc Shanti Swaroop Bhatnagar Awardee - Physical Sciences 1379 Formerly with Department of Physics, IIT Delhi Medical Sciences Session Coordinator(s) : Dr. Shally Anand and Dr. Renu Solanki BOUNDARY Professor C. S. Devi, FNA, FNASc Shanti Swaroop Bhatnagar Awardee – Medical Sc. 2008 School of Biological Sciences, IIT Delhi	
12:30 pm – 01:30 pm Lunch Session Coordinator(s) : Dr. Pooenam Kozuri and Dr. Manoj Saehra Professor Anurag Sharma, FNASc, FNA, FMAE, FASc, Shanti Swaroop Bhatnagar Awardee – Engg. Sciences 1998, Department of Physics, IIT Delhi	
September 28, 2019 (Saturday) 10:00 am – 11:00 am Session Coordinator(s) : Dr. Vinod Kumar and Dr. Sachin Mittal Dr. G. Narahari Sastry, FNASc, FASc Shanti Swaroop Bhatnagar Awardee - Chemical Sc. 2011 Director, CSIR-NCRI, East Institute of Science and Technology, Kolkata Biological Sciences Session Coordinator(s) : Dr. J. N. Tripathi and Dr. Rajulam S. Devi Small Mice: Recycle Cellular Waste to Renewed Actin Cytoskeleton During Fission with Hepatocytes: Implications in Liver Gene Therapy Professor D. P. Sarkar, FNA, FASc, Shanti Swaroop Bhatnagar Awardee - Biological Sc. 1958 Department of Biochemistry, University of Delhi 11:00 am – 11:30 am High Tea 11:30 am – 12:30 pm Session Coordinator(s) : Dr. Shailee Saxena and Dr. Ratna Prof. Balasubramanian Sundaram, FASc Shanti Swaroop Bhatnagar Awardee - Chemical Sc. 2011 Chemistry & Physics of Materials Unit, IGCAR, Bangalore 12:30 pm – 01:30 pm Lunch Total number of seats in each technical session : 150 (To be filled on first-come-first-served basis) Registration Fee: Rs. 100 (To be deposited in Cash & not tested how to pre-register for the workshop. No on the Spot Registration) Students (Undergraduate/ Research Scholars) Rs. 100 Faculty Members & Delegates from Academia/Industry/IBD Laboratories Rs. 500 How to Apply: Interested students and Faculty Members should submit the duly filled form and fees (in cash) to the Convener latest by September 18, 2019 . Participants have to make their own arrangement of local travel and stay. No expenses shall be reimbursed by the organizers. For Further Details Contact Dr. Manoj Saehra, Convener-Science Foundation and DST Program Coordinator Associate Professor, Department of Electronics Deen Dayal Upadhyaya College, University of Delhi, New Delhi. E-mail: saehramanoj7@gmail.com, Mobile: 09881931101 Dr. Pooenam Kattari, Co-Convener-Workshop Associate Professor, Department of Electronics Deen Dayal Upadhyaya College, University of Delhi, E-mail: katzpooenam71@gmail.com	

Council of Scientific and Industrial Research (CSIR) Lab Visits

Organizer: CSIR, Government of India

Date/Time/Location: September 26, 2019 and September 30 from 12-5 pm, NPL, IGIB

Participants: 30 students (Most of them were the Chapter members)

Cost: \$100

With an aim to go beyond academics, our chapter organized a lab visit at National Physical Laboratory (NPL) and Institute of Genomics and Integrative Biology (IGIB) under CSIR (Council of Scientific and Industrial Research). Students were divided on the basis of their interests and sent to the respective labs for the practical exposure on 26th Sept (IGIB) and 30 Sept. (NPL). Students went through the various workshops including lithography techniques being used in the labs and got to see various laboratories and instruments and types of luminescent materials and their properties. Parallel by four student members (Mr. Phulender, Mr. Avinash Kumar, Ms. Tripti Varshney, Mr. Aman Tyagi) were selected for main CSIR foundation day function at Vigyan Bhavan, Delhi where Shri Ram Nath Kovind, Hon'ble President of India and Dr. Harsh Vardhan, Hon'ble Minister of Science & Technology, Vice-President, CSIR were the chief guest. This visit provided students with an opportunity to learn practically through interaction and working methods. Also, it encouraged them to extend their hands in research works.



Cost: \$500

Our Chapter invited honorable Prof. Marija Strojnik, Astrophysicist and Distinguished Professor at Optical Research Center, Mexico to our college on 15th October. She enlightened students with her talk on 'Autonomous Navigation System with Intelligent Camera for Space and Earth'. Prof. Marija Strojnik is best known for developing an autonomous system for optical navigation based on CCD technology which is currently used in nearly all commercial aircraft and numerous spacecraft. The talk was followed by a motivational interaction with the students. Later on, she inspected the projects of the SPIE students which was quite fascinating to her. SPIE members had a great day with her and no doubt it was inspiring to the students aspiring to be a future scientist.

Invited Talk and Interaction with Prof. Marija Strojnik under SPIE Visitor Lecturer Grant

-Prince Sharma

On 15th October 2019 under the aegis of the University of Delhi at ANDC SPIE Student Chapter, Prof. Marija Strojnik, an astrophysicist and distinguished Professor at Optical Research Center, Mexico from SPIE had delivered an invited talk on 'Autonomous Navigation with Intelligent Camera for Space and Earth'. It is a milestone in the chapter history of almost 10 years that the chapter availed 'Visiting Lecturer Grant' from SPIE USA and organised this mega event in the chapter year 2019-20.

The event commenced by the offline registration of the students for the initial talk which was scheduled from 10:00 – 11:30 to be delivered by Prof. Marija Strojnik on the above topic. Prof. Marija Strojnik was escorted from her hotel to our college premises by the reception committee consisting of Prince Sharma, Chapter President and Mallika Yadav, Chapter Vice-President. After the registration was over, Dr. Arijit Chowdhuri greeted Prof. Marija accompanying her to the seminar hall along with the Acting Principal of our college, Dr. Ravi Toteja. There was a formal welcome followed by the lamp lighting ceremony. It was then followed by a welcome speech delivered by the Principal of our college. Dr. Arijit Chowdhuri, Assistant Professor of the Department of Physics warmly welcomed Prof. Marija Strojnik with his words. Prof. Marija Strojnik was then requested to deliver her talk to the students. Since our faculty advisor Dr. Amit Garg went out of India for a conference, he sent a video welcome message for Prof. Marija Strojnik which was then played before the start of the talk. Her talk began with a brief introduction to SPIE and her hour-long talk almost covered everything regarding the topic considering the level of undergraduate students. It ended well with some interactive questions related to the topic from the students. The talk was attended by more than 100 students and it truly covered the proposed objective of the event. Everyone enthusiastically interacted with her and also raised their doubts. The doubts were well cleared by Prof. Marija. After the talk was over, Dr. Arijit Chowdhuri ended the first session with thanks note to Prof. Marija. Students were then requested to attend the next session with Prof. Marija Strojnik which was scheduled to be a motivational interactive session with her. They were requested to report to Committee Room at 11:45 am. Meanwhile, Prof. Marija Strojnik was taken for a tea. Around 25 students attended the second session entitled 'Women at the Center' among which most of them were women students. The session was again very engrossing and lasted around one and a half hours. Prof. Marija shared her career experiences as a woman with all the students. Almost all the students freely interacted with her and put their questions related to their life and career. Prof. Marija cleared the doubts of the students and also helped them overcome their personal confusion. The overall discussion was emphasized on how women are making a difference in the development of the world. They are being treated equally as men and are encouraged in every field. The session ended with a vote of thanks by the student chapter President Mr. Prince Sharma. He presented Prof. Marija Strojnik with a memento on behalf of the chapter. Prof. Marija Strojnik visited the project exhibition organised by our chapter members. Each of the students in the project exhibition explained their respective projects to Prof. Marija. She was curious enough to ask a few questions to the students regarding their projects. Interestingly, she seemed quite fascinated by the work being done by the chapter members. We took a group photo with Prof. Marija after the exhibition. The session did not get over here. She was then requested to visit our SPIE lab where one of the students in the project exhibition had a project to showcase holography. The students displayed the working of their project in the lab which was again quite an interactive discussion with her. Dr. Vishal Dhingra, Assistant Professor of the Department of Electronics concluded the event with a bouquet presentation to Prof. Marija Strojnik in the lab and thanked her to visit our college. Interestingly, our journey with Prof. Marija Strojnik did not end here. Students were so happy with the event that they requested Prof. Marija for an excursion to the Iskon temple situated near to our college to understand India's Cultural heritage. Prof. Marija was humble enough to accept the members' request. We

were so privileged that we got a chance to spend plenty of time with a great woman scientist like her. We hope Prof. Marija got enough insight about our country India in such a short span of just one day with us.

We really had a great learning experience with her. Students then dispersed with a sincere hope that such an event should be organized time and again giving the students a chance to display their skills and chance to learn new things from the experiences of incredibly successful personalities.

We are extremely thankful to SPIE, USA for providing financial assistance to Prof. Marija Strojnik under Visiting Lecturer Grant. It is because of such a great initiative by SPIE, USA that this event was possible and it will give a long way in motivating students towards a career in science.









Maker Faire Hyderabad 2019

Organizer: Make Media Inc., San Francisco, USA and TWorks

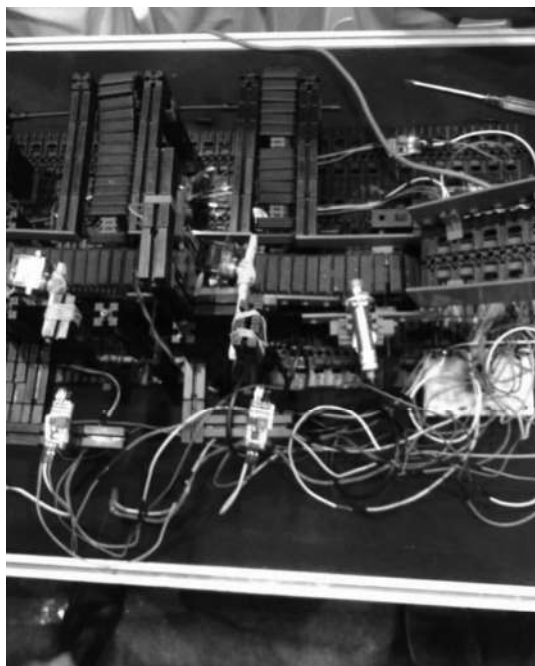
Date/Time/Location: November 10 – 12, 2019 from 10 - 5 pm in Hitex Exhibition Center, Hyderabad

Participants: Mr. Devesh Yadav and Mr. Avinash Kumar Lal (They took part as an attendee)

Cost: \$150

The Maker Faire Hyderabad brings together tech enthusiasts, crafters, educators, tinkerers, food artisans, hobbyists, engineers, science clubs, artists, students, and commercial exhibitors every year. The makers come to show their creations and share their learnings and the attendees flock to the event to glimpse the future and find the inspiration to become makers themselves. Two students, Mr. Devesh Yadav and Mr. Avinash Kumar Lal were sent to attend Maker Faire Hyderabad Event. According to them, there was a gathering of students, enthusiasts and entrepreneur with great ideas and projects from all over the country. There were projects presented on different social and real-life problems. From School kids on Ph.D scholars all participated in the event. Major attraction of this event were the projects presented by school kids which required a good and high-level programming knowledge with a good sense of electronic circuits (Some of the projects were Medicine Reminder for old age people, Garbage Sorter, Obstacle Detection Robot, Obstacle Detection Glasses for Blind People etc.) One of the projects that fascinated the most was a vertical farming model. This model was based on advanced research and different techniques on good quality farming which utilizes most of the outputs including waste material. It included a robot for sowing seeds in farm and removing weeds from the crops. The concept of aquaponics was also used in this project which made it worth considering. There were many more projects like drones, music teaching piano, models on AI learning and much more brought up to there by different startups from all over the country. Some worth mentioning projects included Vapra - the compost maker, Reimagining monuments (for blinds), Automatic Fire Alarm and Safety System, Electric Bike, etc.

The faire was not just limited to projects, but there were many paid workshops available for enthusiasts on various things like microcontrollers, Arduino based workshops, 3D printing, Art and Craft, basic computer knowledge and much more. Overall, this faire was a pretty good platform for seekers, enthusiasts and as well as learners. Although we missed the deadline to take part as a maker in this mega event, this is strongly recommended to the SPIE members to take part in the next year for sure.





Treasurer's Report

Date	Description	Notes	Credit (Income)	Debit (Expenses)	Total(Rs)
1/1/2019	Previous Year's Funds				85263
3/8/2019	SPIE Open Day	Refreshments		6300/-	78963
3/13/2019	SPIE Activity Grant (Previous Year)		164136/-		243099
8/06/2019	Orientation Day	Refreshments + Petty item		6452/-	236647
8/17/2019	Council Elections	Refreshments		2476/-	234171
10/04/2019	Student Projects	Project Items		8400/-	225771
11/22/2019	SPIE Activity Grant (Current Year)		175350/-		401121
12/31/2019	Available Balance				401121
02/01/2020	Activities Listed in the Chapter report	Refreshments+ Travel+ Petty Items etc		50642/-	350479
01/20/2020	Workshop Attend	Poster + Participation fee		1245/-	349234
01/23/2020	Workshop Attend	Participation fee		2000/-	347234
02/07/2020	Workshop on PyRobot	Refreshments+ Kits on hire etc		11000/-	336234
02/22/2020	National Science Centre Visit	Refreshments		3557/-	332677
03/03/2020	SPIE Promotion Fest			3000/-	329677
03/11/2020	Student Projects	Items for the projects		105725/-	223952
	Anticipated Expenditure on SPIE Annual Fest scheduled on 03/31/2020	Refreshment+ Tent Arrangements+Printing +Contingencies+Material cost etc.		120000/-	103952
03/31/2020	Anticipated End of Year Balance				USD 1486

TENTATIVE PLANS FOR THE NEXT YEAR

S.No	Activity	Estimates	Remarks
1	Open SPIE day	Rs 5000/- (USD 70)	Promotion material, refreshments
2	Promotion material for distribution to other colleges and departments of University of Delhi	Rs 5000/- (USD 70)	Printing of A3 sized posters highlighting SPIE, student member benefits, proposed activities of the chapter, postage and transport
3	Council Elections	Rs 2000/- (USD 30)	Refreshments
4	Orientation day	Rs 2000/- (USD 30)	Organizing expenditure
5	Bi-monthly student projects demonstration and competition	Rs 10000/- (USD 150)	Printing of A3 posters (2) for promotion, refreshments, organizing expenditure, prizes, material cost
6	Student Projects	Rs 150000/- (USD 2100)	The student members work on projects related to the demonstration and understanding of nanotechnology, present generation solar cells, optics and photonics. The projects are chosen by them and approved by the faculty

			advisor. The stated amount is used for material cost.
7	Workshop I	Rs 50000/- (USD 700)	Refreshments, Travel, Contingencies, Material cost.
8	Excursion Trip I	Rs 10000/- (USD 150)	Visit to Planetarium The stated amount is used for Travel+ Refreshment+ Entry Fee
9	Excursion Trip II	Rs 75000/- (USD 1000)	Chapter members will be taken on an educational excursion to visit Research/Industrial organizations working in the area of optics and photonics. The stated amount is used for Travel+ Refreshment.
10	Workshop II	Rs 50000/- (USD 700)	Refreshments, Travel, Contingencies, Material cost.
11	SPIE Annual Festival	Rs 120000/- (USD 1700)	All the year round activities, projects done by the Chapter students as well as from outside will be put on display to the students of other colleges of Delhi University as well as schools. The stated amount is used for Printing, Material cost, Tents, Refreshments, Travel, contingencies
12	Lecture Series of Popular Professor and Academia/Industry	Rs. 15000/- (USD 200)	Refreshments
13	Student Lecture Series	Rs. 15000/- (USD 200)	Refreshments
	TOTAL	Rs.509000/- (USD7200)	
	Balance Funds Requested for 2020	USD 7200-1485-1700=4015	USD 4015

Conclusions and Recommendations

This year, our chapter has been quite active throughout the year and this was an individual effort of all chapter members in making that happen. So, we would like the team to be stronger and more responsible towards the society development. Students have begun their efforts in writing research papers and are still striving hard to reflect their work in publication. So, we are looking forward to augment the number of students researching on various topics.



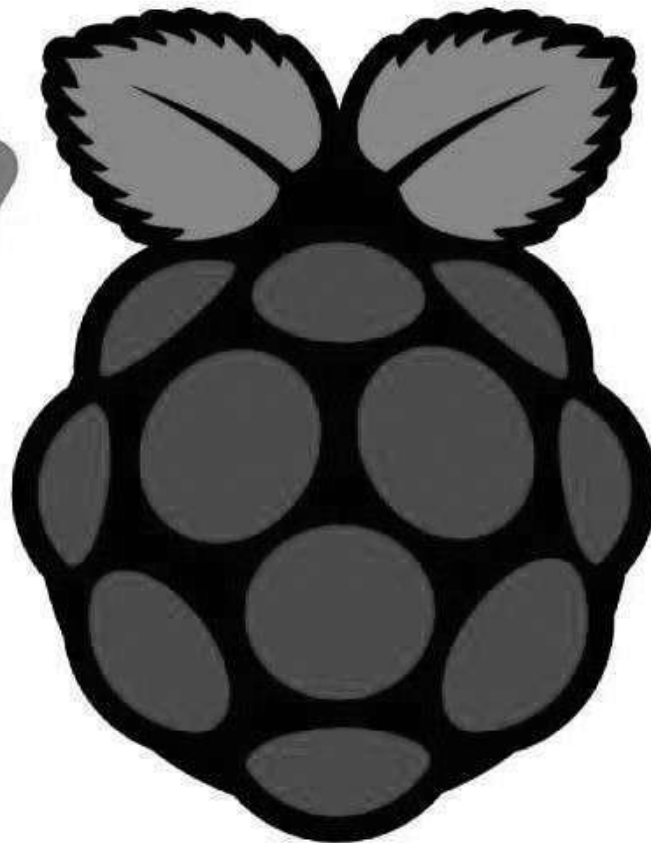
ACHARYA NARENDRA DEV COLLEGE

SPIE Page No. 139
STUDENT
CHAPTER
UNIVERSITY OF
DELHI AT ACHARYA
NARENDRA DEV
COLLEGE

ELECTROBLITZZ

The Electronics Society

Under the aegis of DBT Star College Scheme
and in collaboration with SPIE Student Chapter ANDC
PRESENTS



3rd March

1:00 PM - 5 PM

RASPBERRY PI WORKSHOP

TOPICS TO BE COVERED

SSH CONNECTION - PUTTY, VNC VIEWER, LED BLINKING, WORKING WITH DC MOTOR, FACE RECOGNITION WITH RASPBERRY PI CAMERA

FOR QUERIES

Prince Sharma
PRESIDENT, SPIE STUDENT CHAPTER ANDC
(767) 82 28 684
princesharma2899@gmail.com



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bit.ly/raspiconfig

**Acharya Narendra
Dev College**

UNIVERSITY OF DELHI

ELECTROBLITZZ

UNDER THE AEGIS OF DBT STAR
COLLEGE SCHEME AND IN
COLLABORATION WITH SPIE STUDENT
CHAPTER ANDC PRESENTS

11:00 AM - 1:00 PM
REGISTRATION FEES RS. 150
VENUE: CONFERENCE HALL

**3RD
MARCH**

COORDINATORS:
YASH VARSHNEY (9354984933)
AMAN TYAGI (7011433407)



WIN AND EARN EXCITING PRIZES

Head in the game, Learn in the game

**ROBO
RACE**



ACHARYA NARENDRA DEV COLLEGE UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31
DBT STAR COLLEGE | NIRF Ranking '24'

Organizes

Workshop on "Optical Colour Mixing"



Dr. Amit Garg
(Convener)

August 09, 2019

Venue:- Seminar Hall



**Learn
coding the
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REGISTER AT: bit.ly/pyrobotspie
LAST DATE: 5 FEBRUARY 2020

PyRobot Workshop
Python with programming robots



Acharya Narendra Dev College
Department of Electronics

SPIE. STUDENT
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COLLEGE


under DBT STAR College scheme & SPIE Student Chapter ANDC

presents

NI LabVIEW Online Basic Training



NATIONAL INSTRUMENTS™
LabVIEW™

Industry Partner:  Touch **TECHNO**

Media Partner:



Duration: 5 Days, 1 Hour session everyday

Dates: 23rd - 27th June, 2020

Time: 3.30 PM to 4.30 PM

Tool: Google Meet

Fees: Rs 300/- Non ANDC student

Rs 100/- ANDC students

Free- ANDC SPIE members

Limited seats Available

!!Register Now!!

Scan to register



Co-ordinators

Dr. Amit Garg (Faculty Advisor)

Dr. Ravneet Kaur

Student-Cordinator

Phulender (Treasurer-SPIE)

Contact: 8295462594



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

Under the aegis of DBT STAR College Scheme



LEARNING SCIENCE

The "Do it Yourself" Way

July 17-19, 2019

In Collaboration with

NATIONAL BAL BHAVAN
New Delhi

Organized by

Department of
Botany & Zoology

LEARNING SCIENCE

The "Do it Yourself" Way
Workshop for school students
Under the aegis of DBT STAR College Scheme

SCHEDULE

Day 1: July 17, 2019

TIME	EVENT	RESOURCE PERSON	VENUE
10:00 a.m.	Inauguration		Seminar Room
10:20 a.m.	See the Unseen: Introduction to Microscopy	Dr Geetika Kalra	Seminar Room
11:00 a.m.	Let's Get Going		
	Prepare your own Microscope: (Foldscope Microscope)	Dr Sweety Srimali	Zoology Lab I & II
	Prepare Slides Welcome to the World of Microbes: (1) Gram Staining	Dr Seema Makhija Dr Sneh Sagar	Zoology Lab I & II
1:00 p.m.	Lunch		
1:30 p.m.	Tickling Your Taste Buds Are They Different? Know your genes! (1) PTC Testing (2) Know your Blood Group	Dr Ravi Toteja Dr Aparna Sharma	Zoology Lab I & II
4:30 p.m.	Assess your Day		

Day 2: July 20, 2019

10:00 a.m.	Playing with cells (1) Cheek cells (2) Blood cells (3) Mitosis	Dr Monica Misra Dr Ravi Toteja	Zoology Lab I & II
1:00 p.m.	Lunch		
1:30 p.m.	Hone your Skills: See What's Brewing Inside? Welcome to the World of Plants (1) Visualize Stomata (2) Cytoplasmic Streaming (3) Plasmolysis	Dr Yash Mangla Dr Anita Thakur Dr Vineet Singh	Botany Lab IV
4:30 p.m.	How was your Day?		

Day 3: July 21, 2019

10:00 a.m.	Churn it OUT : Scoop out the Life Molecule - Tinker Lab (1) Isolation of DNA from plant cell	Dr Rashmi Sharma Dr Manoj Singh Dr Sumit Sahni	Botany Lab IV
1:00 p.m.	Lunch		
1:30 p.m.	Tinker Lab Continues (1) Visualization of DNA (2) Amplifying DNA (3) Visualizing Amplified DNA (4) Applications of amplifying DNA	Dr Manoj Singh Dr Sumit Sahni Dr Rahul Dev	Zoology Lab I & II
3:30 p.m.	Valedictory Session		Seminar Room





ACHARYA NARENDRA DEV COLLEGE

University of Delhi

presents a workshop on

Unravel the Microbial World

Take your microscope along

September 9, 2019

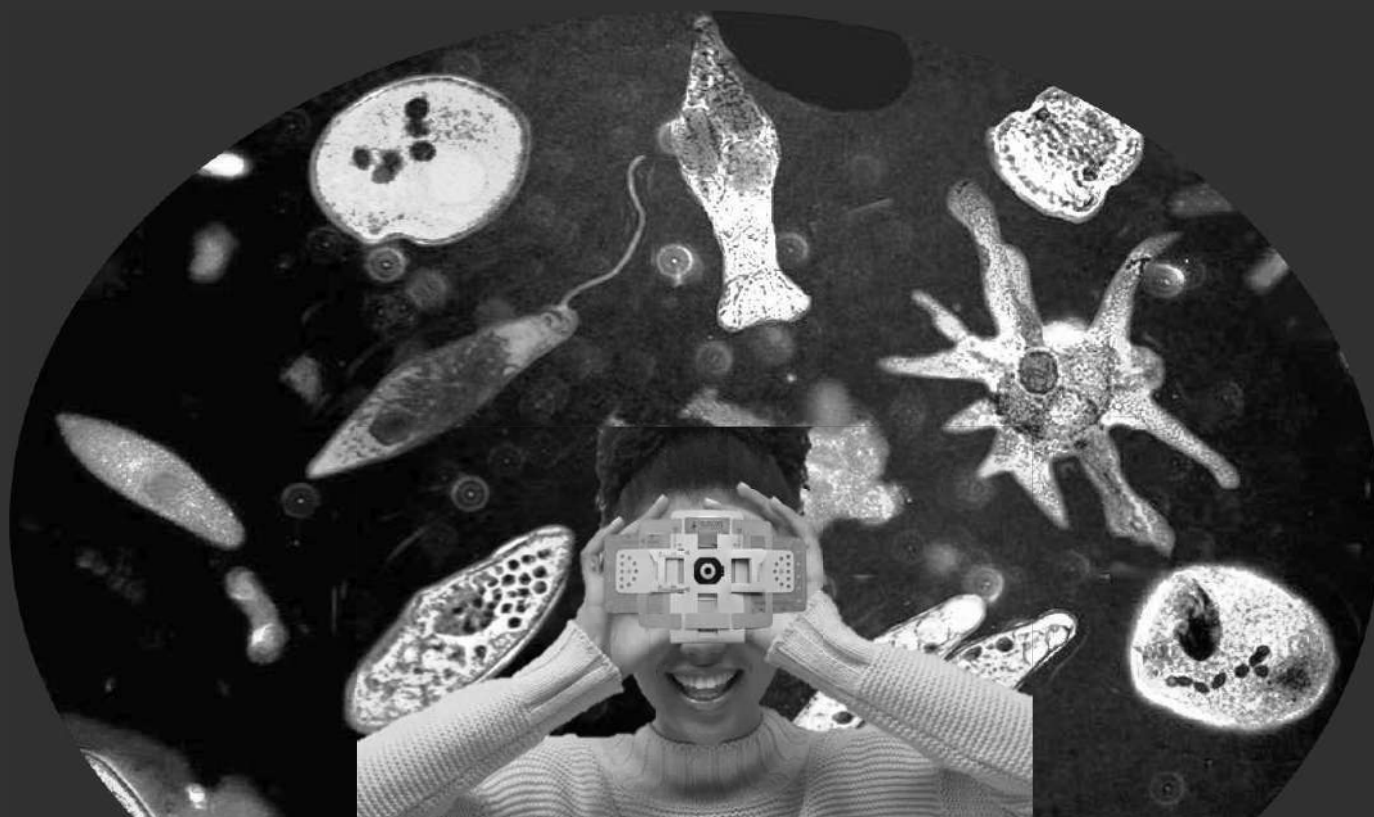
Under the aegis of DBT Star College Scheme

Presided by

Dr Anupama Harshal

K.C. College, Mumbai

Indo-US Foldscope Awardee



Time –1:00 p.m. to 5:00 pm

Venue: Seminar Hall

Organized by

Department of Zoology



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)
Govindpuri, Kalkaji, New Delhi-19
(NAAC Accredited, Grade A, CGPA 3.31)



Internal Quality Assurance Cell (IQAC)

organizes

A five day workshop on

“Empowering Teachers: Educational e- Content Creation and Delivery”

(December 2-6, 2019)



Registration Fee : Rs. 1000 (One thousand only) per participant
Maximum 30 participants shall be registered
Last date of Registration: 28/11/2019 at 5:00 PM

Participants will be empowered to:

- Current Technology based Educational Content Creation and Delivery" using open source free software
- Audio/video recording of educational content, Editing and archiving the audio and video lectures
- Enriching the videos, preparing streaming videos, Text data handling and QR Codes.

Organizing Committee
Dr. Manisha Jain, Convener
Dr. Pooja Bhagat, Member
Dr. Neeti Misra, Member

Patron
Dr. Ravi Toteja

IQAC Coordinator
Dr. Yasheshwar

ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

Govindpuri, Kalkaji, New Delhi - 110019

(Internal Quality Assurance Cell)



Workshop on
Empowering Teachers: Current Technology Based
Educational Contents Creation and Delivery”
(Using Open Source, Free software)

December 2-6, 2019

DAY I (2 December 2019, Monday)

Note: All Participants should carry their own MS window-based laptops and internet connectivity if possible and pen drives (Virus free)

Session	Time	Theme
	0930 – 1000 hrs	Inauguration / Introduction of Resource person and Participants
I	1000 – 1115 hrs	General Introduction to Educational Media
	1115 – 1130 hrs	Tea Break
II	1130 – 1200 hrs	Types of Educational media and their relevance in Teaching/Learning
III	1200 – 1330 hrs	Enabling Current technologies for teaching/ Learning and the Tools - Demo
	1330 – 1400 hrs	Lunch
IV	1400 – 1430 hrs	Division of Participants into groups
V	1430 – 1500 hrs	Introduction to Audio/Video Recording and Demo
	1500 – 1515 hrs	Tea Break
VI	1515 – 1615 hrs	Open source tools for Audio/Apps and extensions for Text to Audio
	1615 – 1630 hrs	Feed Back/wrap -Up

Learning Outcomes: Knowledge about Educational Media, Technologies in Education and introduction to Audio/Video recording and open source software tools

DAY II (3 December 2019, Tuesday)

Note: All Participants should carry own MS window-based laptops, mobile phone, and preferably micro phone/Ear phones

Session	Time	Theme
VII	0930 – 1000 hrs	Introduction to Audio based Learning
VIII	1000 – 1115 hrs	Audio Recording and delivery techniques
	1115 – 1130 hrs	Tea Break
IX	1130 – 1200 hrs	Audio Recording Part I
X	1200 – 1330 hrs	Audio Practical - I
	1330 – 1400 hrs	Lunch
XI	1400 – 1430 hrs	Audio Recording/Editing Part II
	1430 – 1500 hrs	Audio Practical - II
	1500 – 1515 hrs	Tea Break
XII	1515 – 1615 hrs	Open Source products for Video creations and editing
	1615 – 1630 hrs	Feed Back/Wrap -Up

Learning Outcomes: Audio Creation tools Hardware/Software and support resources, Audio recording/Editing Educational Material, Audio Archiving and delivery. Open Source software tools

DAY III (4 December 2019, Wednesday)

Note: Participants should carry the scripts for video recording and Power point presentation for the same. Video content should match the Power point presentation.

Session	Time	Theme
XIII	0930 – 1100 hrs	Open Source Video Software and their uses in Education Learning Devices /Using commonly available devices in Learning/Teaching
	1100 – 1115 hrs	Tea Break
XIV	1115 – 1130 hrs	Introduction to Video formats and Streaming Delivery Modes
XV	1130 – 1200 hrs	Classroom Video Creation and Editing
XVI	1200 – 1330 hrs	Classroom Video Creation and Editing (continued)
	1330 – 1400 hrs	Lunch Break
XVII	1400 – 1430 hrs	Classroom Recording Session I (3 Group Recording)
	1430 – 1500 hrs	Recording Continued
	1500 – 1515 hrs	Tea Break
XVIII	1515 – 1615 hrs	Class Room Recording Session II (3 Groups)
	1615 – 1630 hrs	Feed Back /Wrap Up

Learning Outcomes: Video formats, Streaming Videos, Creation of classroom/Lab Videos and editing them. Practically creating Videos and uploading using open source software

DAY IV (5 December 2019, Thursday)

Note: *Connected Material for enriching Classroom Experience, Cleaned up Videos, Relevant Titles for Videos*

Session	Time	Theme
XIX	0930 – 1100 hrs	Editing Videos and Creating Enriched Classroom Videos with titling and foot notes
	1100 – 1115 hrs	Tea Break
XX	1115 – 1130 hrs	Practical's with Guidance in Groups
XXI	1130 – 1200 hrs	Preparing Streaming Videos as OER Resources - I
XXII	1200 – 1330 hrs	Preparing Streaming Videos as OER Resources - II
	1330 – 1400 hrs	Lunch Break
XXIII	1400 – 1430 hrs	New Media role in Education
	1430 – 1500 hrs	New Media Continued
	1500 – 1515 hrs	Tea Break
XIV	1515 – 1615 hrs	Creating Educational Channels/using Existing OER Channels uploading Videos
	1615 – 1630 hrs	Feed Back/Wrap Up

Learning Outcomes: Creation of Streaming Video of Educational Content/ Enriching the Classroom Experience, Uploading on Net and

DAY V (6 December 2019, Friday)

Note: *Wifi connectivity for Streaming, ANDC Media Channel passwords, Facebook Pages, Youtube Page access*

Session	Time	Theme
XXV	0930 – 1100 hrs	Live Streaming
	1100 – 1115 hrs	Tea Break
XVI	1115 – 1130 hrs	Educational Media Delivery (LAN/WAN) and interactive solutions
XVII	1130 – 1200 hrs	Introduction to QR Codes
XXVIII	1200 – 1330 hrs	QR Codes in Education
	1330 – 1400 hrs	Lunch Break
XXIX	1400 – 1430 hrs	Types of Documents Docs/html/pdf
	1430 – 1500 hrs	Pdf tools
	1500 – 1515 hrs	Tea Break
XXX	1515 – 1615 hrs	Discussions
	1615 – 1630 hrs	Feed Back Form filling/Wrap Up

Learning Outcomes: Delivery and promotion, Live Streaming using simple PCs, Laptops

Patron

Dr. Ravi Toteja (Acting Principal)

Organising Committee

Conveners

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(UNIVERSITY OF DELHI)**

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Invites you to a

WORKSHOP

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(16-19 September, 2019)

(Under Star College Scheme)



ACHARYA NARENDRA DEV COLLEGE

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Inter-College hands-on workshop on Surface Plasmon Resonance (SPR) and UV-Visible Spectroscopy: Basic working principle and Environmental Applications

organized by Departments of Physics & Botany
under the aegis of DBT Star College Scheme



23 - 27

August 2019

Venue: Physics Laboratory - III

Time: 9.30 a.m onwards

Patron

Dr. Ravi Toteja

Convenors

Dr. Arijit Chowdhuri

Dr. Charu Khosla Gupta

Coordinators

Department of Physics

Dr. V. Bhasker Raj

Dr. Sanjay Kumar

Details - <http://andcollege.du.ac.in/>

Department of Botany

Dr. Anupama Shukla

Dr. Yash Mangla



Acharya Narendra Dev College

(University of Delhi)

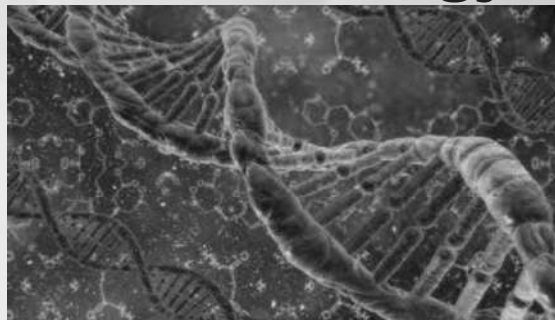
Department of Zoology

Under the aegis of DBT STAR College Scheme

Organizes

Hands on Workshop

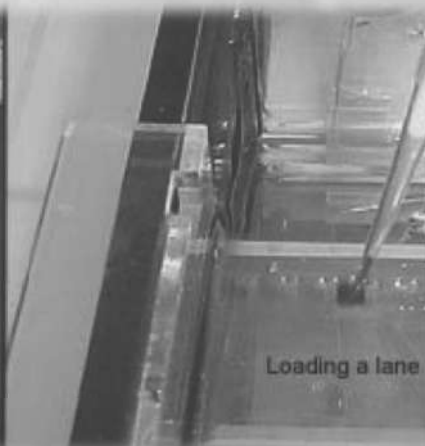
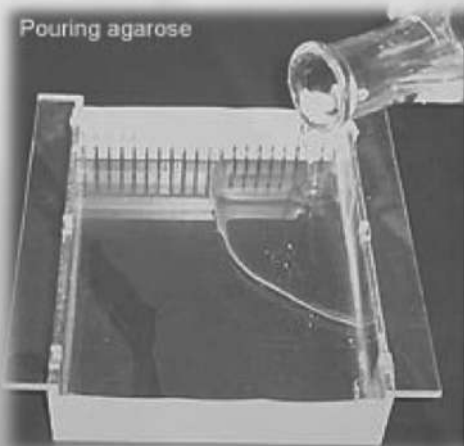
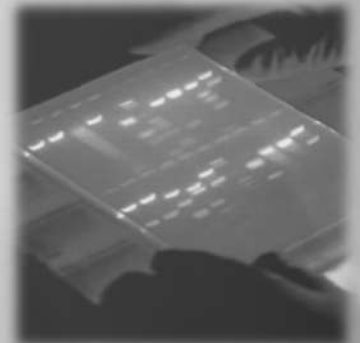
Learning Molecular Biology Techniques



Time: 09:30 A.M.

Date :September 24, 2019

Venue :Zoology Laboratory



All interested are welcome to attend



Acharya Narendra Dev College

(University of Delhi)

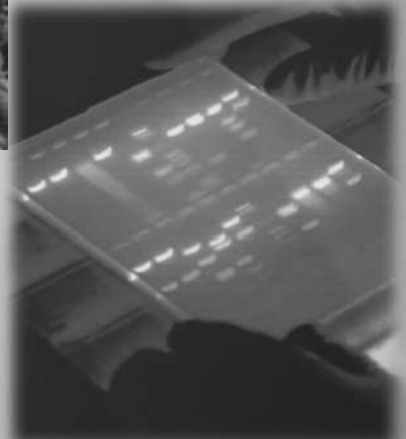
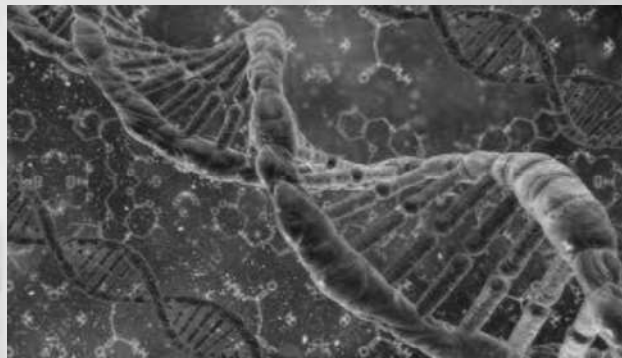
Under the aegis of star college scheme

Organized by

Ciliate Biology Laboratory

Workshop on

Molecular Biology Techniques



Time: 09:30 A.M.

Date : November 22, 2019





Acharya Narendra Dev College

ORGANIZING TEAM

Acting Principal: Dr. Ravi Toteja

Coordinators: Dr. Seema Makhija

Dr. Archana Pandey

Resource persons:

(Ph. D. students)

Jeeva Susan Abraham

S. Sripoorna

Swati Maurya

Ritu Arora

Prateek Kumar

Munendra Kumar

Manu Sankar

Saroj

Roopa Rani Samal

Vinay Singh Dagar

Kungreiliu Panmei

P. Ianbiliu

Acharya Narendra Dev College

Ciliate Biology Laboratory

Workshop on

Molecular Biology Techniques

November 22, 2019

Schedule

Exp. No.	Topics	Time
1.	Laboratory visit : Anti-mycobacterial Drug Discovery Laboratory Microbial Technology Laboratory Insect-Vector and Pest Laboratory Ciliate Biology Laboratory	9:30 am – 11:30 am
1.	Culturing and observation of ciliates/bacteria	11:30 am – 12:30 pm
2.	DNA isolation from bacterial culture	12:30 pm – 1:30 pm
3.	Agarose Gel electrophoresis	2:00 pm – 3:00 pm
4.	Polymerase chain reaction (PCR) using 18S rRNA primers	3:00 pm – 4:00 pm
5.	Phylogenetic analysis using bioinformatic tools	4:00 pm – 4:30 pm

Experiment 1

Aim: Culturing and observation of ciliates/ bacteria.

A. To culture the ciliate *Blepharisma*

Requirements: Pond Water, RO purified water, Cabbage Leaf, Distilled Water (DW), Flasks, Cavity Block, Petri dish, Glass Micropipette, 120 μm Mesh, Microscope.

Procedure

1. Preparation of medium for culturing:

Pringsheim's medium (PM)

i) Prepare stock solution as follows:

STOCK SOLUTION:		
1.	$\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$	4 gm/100 ml D. W
2.	KCl	520 mg/100 ml D. W
3.	$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	400 mg/100 ml D. W
4.	$\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$	400 mg/100 ml D. W

ii) From the stock solution add 5 ml of each chemical for 1 litre of PM solution.

iii) Boil and cool it to room temperature.

iv) Use this medium for culturing.

2. *Blepharisma* Culturing

- i) Identify *Blepharisma* cells by observing the pond water under the microscope (the cells have pink coloration and can be identified easily).
- ii) Isolate the *Blepharisma* cells from pond water using a fine glass micropipette in cavity blocks.
- iii) Raise a clonal population in the cavity block starting with a single cell using Pringsheim's medium.
- iv) Add a small piece of boiled cabbage which will promote bacterial growth that will be used as food source for *Blepharisma*.
- v) Transfer the cells to a petridish after the cell count reaches about 25 cells.
- vi) With fresh medium subsequently transfer the culture to a petri dish after observing the growth of the cells.
- vii) Let it grow in BOD at 23°C for 4-5 days.

- viii) Observe growth of cells under the microscope and clean the medium regularly by filtering through 120 micron mesh every 2-3 days.
- ix) Do Subculturing after every 10 days.



Live cell of *Blepharisma* under light microscope.

Precautions

- i) Don't over boil the medium.
- ii) Don't use unwashed flasks.
- iii) Take care to isolate single cells in cavity block so that clonal population can be raised.
- iv) The proportion of inoculum and fresh medium should not be less than 1:10.
- v) Check the temperature of the BOD everyday. It should not go above 24 and below 22.
- vi) Shake the flasks every 24 hrs.
- vii) Don't let the culture overgrow. Resuspend the culture in fresh medium after centrifugation after every 25-30 days.

B. To culture the bacteria *Escherichia coli*

Requirements: Sterilized wire loop, micropipettes, glass/plastic pipettes, sterilized petri-dishes, culture media, Laminar hood.

***E. coli* culture media**

LB (Luria Broth):

For 1 L

- 10 g tryptone
- 5 g yeast extract
- 10 g NaCl
- Optional: Bring up the volume to around 900 mL with ddH₂O, then adjust the pH to 7.4 and make the final volume to 1 L with ddH₂O
- Sterilize the by autoclaving for 30 min

The culture media is prepared in test tubes. To the autoclaved media, small inoculum of *E. coli* bacteria was added and left overnight in shaker (180 rpm) at 37°C to allow the culture to grow

To make LB-agar, add 15 g of agar prior to autoclaving.

Preparation of culture plates

1. Collect one bottle of sterile molten agar (LB-agar) from the water bath.
2. Hold the bottle in the right hand; remove the cap with the little finger of the left hand.
3. Flame the neck of the bottle.
4. Lift the lid of the Petri dish slightly with the left hand and pour the sterile molten agar into the Petri dish and replace the lid.
5. Flame the neck of the bottle and replace the cap.
6. Gently rotate the dish to ensure that the medium covers the plate evenly.
7. Allow the plate to solidify

Streaking plate with bacteria

The aim of the procedure is to obtain single isolated pure colonies of bacteria.

1. Loosen the cap of the bottle containing the inoculum.
2. Hold the loop in the right hand.
3. Flame the loop and allow to cool.

4. Lift the bottle/test tube containing the inoculum with the left hand.
5. Remove the cap/cotton wool plug of the bottle/test tube with the little finger of the right hand.
6. Flame the neck of the bottle/test tube.
7. Insert the loop into the culture broth and withdraw. At all times, hold the loop as still as possible.
8. Flame neck of the bottle/test tube.
9. Replace the cap/cotton wool plug on the bottle/test tube using the little finger. Place bottle/test tube on bench.
10. Partially lift the lid of the Petri dish containing the solid medium.
11. Hold the charged loop parallel with the surface of the agar; smear the inoculum backwards and forwards across a small area of the medium
12. Remove the loop and close the Petri dish.
13. Flame the loop and allow it to cool. Turn the dish through 90° anticlockwise.
14. With the cooled loop streak the plate from the previously streaked area across the surface of the agar in three or four parallel lines. Make sure that a small amount of culture is carried over.
19. Remove the loop and close the Petri dish. Flame the loop.
20. Seal and incubate the plate in an inverted position.



Eschicheria coli



Streak plate of *E. coli*

Precautions

- All the experiments must be carried out under sterile conditions and media should be autoclaved.
- While pouring the medium, the base of the plate must be covered, agar must not touch the lid of the plate and the surface must be smooth with no bubbles.
- The plates should be used as soon as possible after pouring.

Experiment 2

AIM: Isolation of Genomic DNA from *E. coli* DH5 α cells

Introduction

Deoxyribose Nucleic Acid (DNA). is very long and contains the genetic code needed to direct a cell's activities. DNA was first isolated by Friedrich Meischer in 1869. He extracted a substance from the cells' nuclei that he called nuclein and later on nucleic acid since the substance isolated was acidic in nature. This discovery of DNA paved the way for many scientists whose work contributed to the understanding of DNA. In 1920s P.A. Levene found that DNA molecule contain three main components:

- (1) Five carbon sugar
 - i. Deoxy ribose in DNA
 - ii. Ribose in RNA
- (2) Phosphate group
- (3) Nitrogenous base
 - i. Purines: Adenine and Guanine
 - ii. Pyrimidines: Cytosine, Thiamine and Uracil

He concluded that DNA molecule is a polymer and each unit is made up of above mentioned components which he called nucleotides. Later on Chargaff showed that four nucleotides are not present in equal proportions in DNA but there is always an equal proportion of purines and pyrimidines. In 1953 Rosalind Franklin carried out x rays diffraction of DNA molecule which suggested that DNA molecule either helical or corkscrew in shape. Finally Watson and Crick gave the most acceptable model of DNA structure According to this model DNA does not exist as a single strand but as two chains of nucleotides spiralling tightly around an imaginary axis to form a double helix. Deoxyribose sugar-phosphate backbones are on the outside of the helix, and the four different nitrogen bases are paired in the interior of the helix. Double strands are held together by hydrogen bonds between the complementary bases. There is a crucial relationship between the two strands: where there is adenine (A) on one strand, it can only pair with thymine (T) on the other strand, and guanine (G) always pairs with cytosine (C). There is a complementarity between the two strands.

DNA is found both in prokaryotes and eukaryotes. In prokaryotes, DNA is double stranded and circular and is found throughout the cytoplasm and is called nucleoid. In eukaryotes, DNA is located in the nucleus and in mitochondria or chloroplasts. The DNA in the nucleus is double stranded and linear, whereas the DNA in mitochondria and chloroplasts is like prokaryotic DNA, double stranded and circular. The DNA in prokaryotes is relatively free of associated protein, but the DNA in the nucleus of eukaryotes is associated with basic proteins, called histones. Now that the structure of DNA has been studied for over 100 years and has basically been accepted, procedures have been devised to isolate almost pure DNA from its other components.

The isolation of DNA is one of the most commonly used procedures in many areas of bacterial genetics, molecular biology and biochemistry. Purified DNA is required for many applications such as studying DNA structure and chemistry, examining DNA-protein interactions, carrying out DNA hybridizations, sequencing or PCR, performing various

genetic studies or gene cloning. The isolation of DNA from bacteria is a relatively simple process. The organism to be used should be grown in a favorable medium at an optimal temperature, and should be harvested in late log to early stationary phase for maximum yield.

REQUIREMENTS:

Biological

Overnight grown culture of *E. coli*.

Chemicals

A. Luria Broth medium to grow *E. coli*:

Tryptone - 1.0g

Yeast extract - 0.5g

NaCl - 0.5g

Glucose - 0.1g

Dissolve the components in 75ml of distilled water, adjust the pH to 7.6 and finally make the volume to 100ml. Sterilize by autoclaving

B. GTE mix:

50mM Glucose

50mM Tris-HCl

10mM EDTA

Sterilize by autoclaving

C. 10mM NaCl

Sterilize by autoclaving

D. 10% SDS

Dissolve 10g of SDS in 80 ml of distilled water adjust pH to 7.2. Raise the volume to 100ml.

Do not Autoclave.

Glassware/Plastic ware

All glassware and plastic ware used should be sterilized

- Conical flasks 100 ml
- Petri plates
- Eppendroffs
- Micro tips
- Pipettes

Instruments/ equipment

- Orbital shaker
- pH meter
- Weighing balance
- Centrifuge
- Micropipettes

Principle:

The isolation of genomic DNA is important as it serves as one of the important starting materials of many further experiments, such as PCR, restriction digestion and whole genome sequencing, etc. There are several basic steps in DNA extraction. The five steps are as follows:

1. **Homogenization or disruption of cells:** The cell must first be lysed (broken open) to release the nucleus in eukaryotes or nucleoid in prokaryotes. Cells are broken by grinding, tissue homogenization, or treatment with lysozyme
2. **Inhibition of DNAase:** At this point the DNA must be protected from enzymes that will degrade it, causing shearing. Many of the nucleases present in cells can digest nucleic acids. When the cell is disrupted, the nucleases can cause extensive hydrolysis. Nucleases apparently present on human fingertips are notorious for causing spurious degradation of nucleic acids during purification. Chelating agents are added to remove metal ions required for nuclease activity.
3. **Dissociation of nucleoprotein complexes:** DNA-protein interactions are disrupted with SDS, phenol, or broad spectrum proteolytic enzymes as pronase or proteinase K. Alkaline pH and high concentration of salts improve the efficiency of the process.
4. **Removal of contaminating materials;** contaminating molecules especially proteins are removed by treatment with phenol or chloroform-isoamyl alcohol or phenol chloroform. Proteins can also be removed by salting out proteins by sodium acetate.
5. **Precipitation of DNA:** Once the DNA is released, it must be precipitated in alcohol (with salt). The DNA in the aqueous phase is precipitated with cold (0°C) ethanol. The precipitate is usually redissolved in buffer and treated with phenol or organic solvent to remove the last traces of protein, followed by reprecipitation with cold ethanol. RNA is removed by limited treatment with deoxyribonuclease-free ribonuclease.
6. **Washing of DNA:** Final step is the washing of DNA with 70% ethanol to remove the traces of salt used in precipitation step. This is followed by drying and dissolving in double distilled water or TE buffer.

Role of Chemicals:

1. **GTE Mix:** It is mainly used for resuspending the cell pellet prior to lysing them and extracting the DNA. Besides GTE also provides a stable environment for the DNA. 50 mM glucose is added because it maintains osmolarity and it being a non-electrolyte doesn't interfere with the buffering properties of the other components. Tris pH 8.0 is the pH buffer and it maintains the near physiological pH which doesn't harm the components inside the cell. EDTA chelates the metal ions such as zinc, magnesium and calcium and thus prevent the degradation of the DNA.
2. **Sodium Dodecyl Sulfate 1%:** SDS is a strong anionic agent and it removes the negative ions from the proteins and destroys its structure. This also aids in destroying the proteins of the cell membrane and destroys them, as a result of which cell lysis takes place. It thus exposes the chromosomal DNA. SDS also frees the DNA from the histones and other DNA binding proteins attached to the DNA by denaturing them.
3. **Sodium Chloride (NaCl) and Isopropanol:** It is used to precipitate solubilized high molecular weight DNA from the phenol (inorganic layer).
4. **Ethanol 70%:** It is used to wash/purify the DNA once it is isolated. Ethanol 70% maintains the osmolarity of the DNA.

PROCEDURE

- Take 1.5 ml of overnight grown culture of *E. coli* in microfuge tube.
- Centrifuge at 10,000 rpm for 5 minutes to obtain pellet
- Discard the supernatant and add 200 μ l of GTE mix. Break the pellet.
- Incubate at room temperature for 5 minutes.
- Add 400 μ l of 1% SDS and keep on ice for 5 minutes.
- Add 60 μ l of 10mM NaCl and 700 μ l of isopropanol
- Invert mix.
- Centrifuge at 10,000 rpm for 20 minutes.
- Decant the alcohol and air dry.
- Dissolve in 50 μ l of TE buffer/ddH₂O.
- Add the loading buffer and subject it to gel electrophoresis.

PRECAUTIONS

1. Use caution when operating the centrifuge.
2. The laboratory surfaces should be very clean during all procedures used in this activity.
3. Use thoroughly clean instruments and glassware. Rinse all equipment with isopropyl alcohol or acetone.
4. Ethanol is highly flammable; use caution.

EXPERIMENT 3

Aim: To Perform Agarose Gel Electrophoresis of DNA

Material Required:

Chemicals:

Tracking Dye

Bromophenol Blue : 0.25 g

Sucrose : 70.0 g

EDTA (0.5M) : 20 ml

Dissolve sucrose in 50 ml of distilled water by heating and then add Bromophenol blue and EDTA. Raise the volume to 100ml.

TBE Buffer (pH 8.3)

Tris : 108 g

Borate : 55 g

EDTA : 7.4 g

Dissolve the components in 700 ml of distilled water and adjust the pH to 8.3. Raise the volume to 1000 ml. Sterilize by autoclaving.

Ethidium Bromide

Stock : 10 mg/ml in distilled water

Working : 0.5ug/ml in TBE buffer (0.5X).

Methylene Blue

Stock : Dissolve 1 gm of methylene blue in 100 ml of water.

Working : 0.025% in water.

Equipments:

- Horizontal gel-electrophoresis apparatus
- Power pack

- Transilluminator/UV lamp
- Micropipettes
- Microwave oven/Hot plate

Theory:

Introduction:

Electrophoresis is the study of movement of charged particles in an electric field. Various types of electrophoresis are as follows:

Paper electrophoresis

Sample is applied on to the Whatman filter paper or cellulose acetate paper moistened with buffer solution. This method is used for separation of low molecular weight compounds such as amino acids, small peptides and nucleotides.

Starch gel electrophoresis

Starch gels are prepared by heating and then cooling a partially hydrolysed starch in an appropriate buffer. The separation is achieved due to the difference in charges as well as size. Isoenzymes can be separated by this method.

Polyacrylamide gel electrophoresis

It is used for the characterization and analysis of proteins and nucleic acids. Polyacrylamide gel is prepared by polymerization of acrylamide monomers into long chains and cross-linking these bifunctional reagents with bis acrylamide. The pore size of polyacrylamide gels can be varied by changing total concentration of acrylamide and bis acrylamide solutions. The gel with low percentages has larger pore size and is suitable for separation of high molecular compounds and high percentage gel has smaller pore size and is used for separation of relatively low molecular weight compounds.

Agarose Gel Electrophoresis

Agarose gels are more porous and have a larger pore size as compared to polyacrylamide gels and are therefore used to fractionate large macromolecules such nucleic acids, typically ranging from few hundred bases to 20 kb. Agarose is a linear polymer of D-galactose and 3,6-anhydro-L-galactose. Agarose gels are casted by dissolving agarose in buffer, melting in microwave oven/hot plate and then poured into gel-casting tray (after cooling to 45-50^o C) and allowed to set to form gel matrix. Porosity is determined by the concentration of agarose and buffer composition. Higher the agarose concentration, smaller the pore size and vice versa. When electric current is applied across the gel, negatively charged DNA molecules

migrate towards anode at rates determined by their molecular weights. Gel electrophoresis is performed with marker DNA fragments of known size, which allows accurate size determination of an unknown DNA molecule by interpolation. DNA molecules of the same size but different conformations travel at different rates.

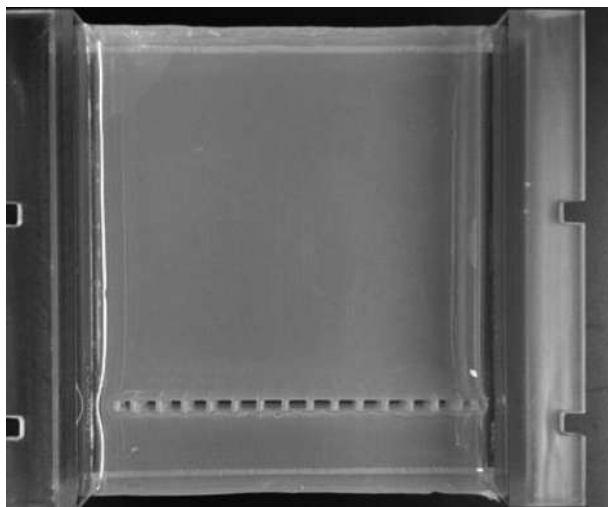
Principle

Any charged ion or molecule migrates when placed in an electric field. The rate of migration of a compound depends on its net charge, size, shape and the applied current. The movement of a charged molecule in an electric field is often expressed in terms of electrophoretic mobility, μ which is defined as the velocity per unit of electric field. The electrophoretic mobility of a molecule is directly proportional to the charge density. Molecules with different charge/mass ratio migrate under the electric field at different rates and hence get separated. This is the underlying principle for all the electrophoretic techniques.

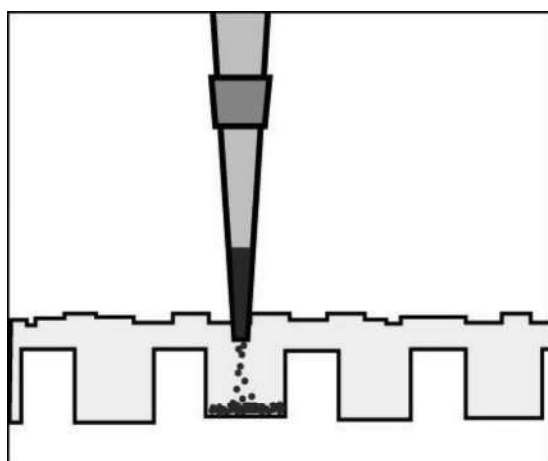
The most convenient and commonly used method to visualise DNA in agarose gels is staining with fluorescent dye-ethidium bromide, which is a planar molecule that intercalates between the stacked bases of DNA. It binds to DNA with little or no sequence preference. Ethidium bromide absorbs the UV radiation and energy is reemitted in red orange region of visible spectrum. Ethidium bromide can be used to detect both double and single stranded DNA and it can detect as little as 0.05 μg of DNA.

Procedure:

- 1) Make 1% agarose in 1X TBE buffer. Heat the mixture on a hot plate or microwave until the solution becomes clear.
- 2) Clean the casting tray and place it horizontally on the table and level it using the equilibrium bubble. Position the comb 0.5-1.0 mm above the plate so that a complete well is formed when agarose is added.
- 3) Add Ethidium Bromide (EtBr) to the agarose solution once it cools to 45-50°C and pour it in to the gel tray. There should not be any air bubble between or under the teeth of the comb.
- 4) After the gel completely sets, carefully pour some 1X TBE buffer over the cast gel
- 5) Remove the comb.
- 6) Mix 15 μl of DNA sample with 1.5 μl of bromophenol blue tracking dye and slowly load the mixture into wells.
- 7) Connect the assembly with power supply and apply the voltage of 80 V.
- 8) Run the gel until the bromophenol blue dye has traversed 3/4th distance.
- 9) Turn off the electric current and remove the gel from the gel tank.
- 10) Detection of DNA bands
- 11) View the gel under UV transilluminator.

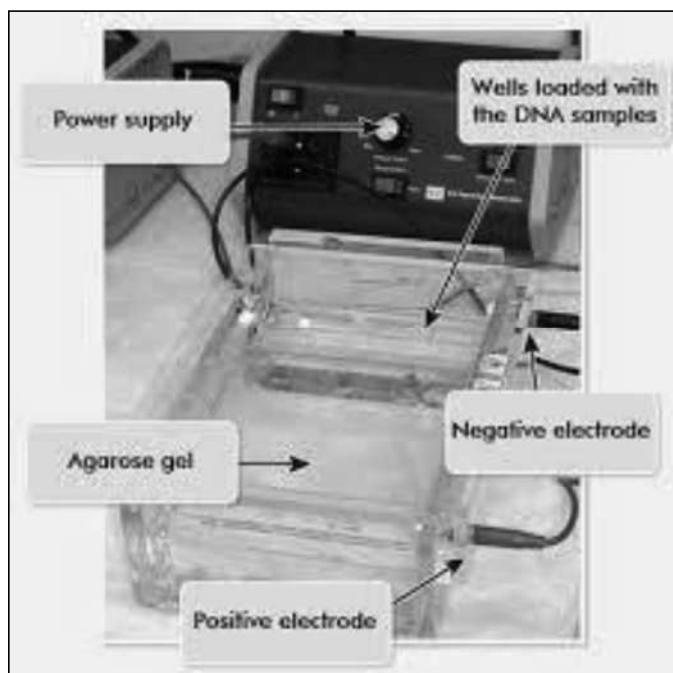


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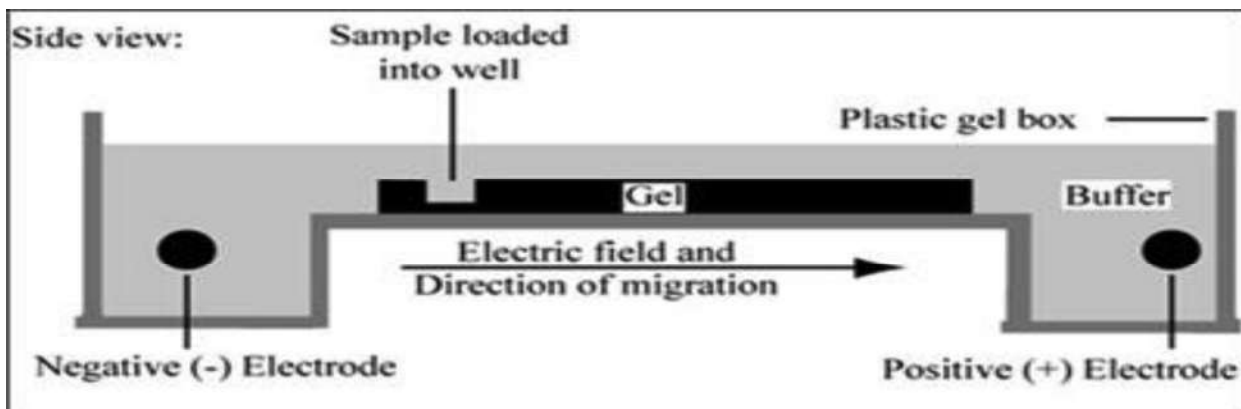


Agarose Gel Electrophoresis

- 1) Detection of DNA by Staining with methylene blue
- 2) Stain the gel with 0.025% methylene blue for 20-30 minutes. While staining with methylene blue, Ethidium bromide is not added to agarose at the time of gel casting.
- 3) Destain the gel with lukewarm water for 30 minutes.
- 4) Observe the gel under white light illumination.

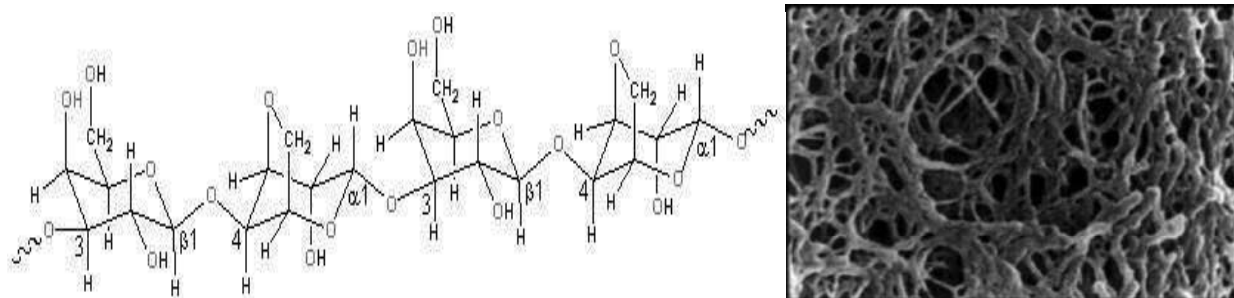


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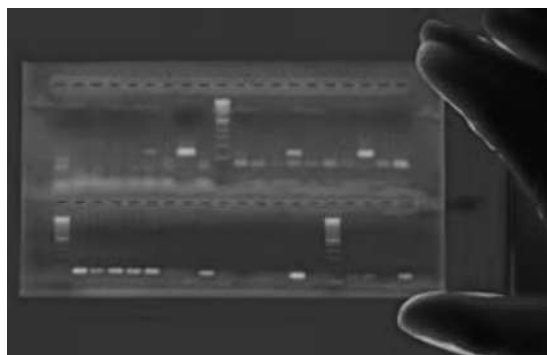


<http://ocw.mit.edu/courses/biological-engineering/20-109-laboratory-fundamentals-in-biological-engineering-spring-2010/labs/module-1-day-2-purify-aptamer-encoding-dna/>

Structure of Agarose



Observation:



Agarose gel stained with ethidium bromide observed under UV trans-illuminator

Discussion:

There are many dyes available to detect DNA but the most commonly used is Ethidium Bromide. It is very sensitive (can detect very low concentrations of DNA) and does not require any post electrophoresis treatment of gel. However EtBr is a mutagen and a potential carcinogen too hence should be handled carefully. It also requires UV illumination. Methylene Blue is safer than Ethidium bromide and DNA bands can be visualized in white light (transilluminator not required). But this stain is less sensitive (cannot detect DNA less than 0.5-1 μg) than Ethidium bromide and takes much more time in staining DNA.

Precautions:

- 1) Ethidium bromide should be handled carefully. Wear gloves while handling it.
- 2) Do not touch the gel when electric current is ON.
- 3) Do not expose yourself to UV radiations. Use protective clothing and face shield.

EXPERIMENT 4

Aim: To amplify the small subunit ribosomal RNA (18S rRNA) gene using gene-specific primers by polymerase chain reaction (PCR).

Material Required:

Chemicals:

- Template DNA (25ng/ μ l)
- Primers: Forward primer (10 μ M) & Reverse primer (10 μ M)
- Mix of deoxyribonucleotides (dNTPs): 10 mM each of the four deoxyribonucleotide-dATP, dCTP, dGTP, dTTP
- Enzyme: Taq Polymerase (5 units/ μ l)
- Enzyme buffer (10X)
- Autoclaved distilled water

Equipments:

- PCR machine
- Micropipettes

Plasticware:

- Microfuge tubes
- Microtips

Theory:

The polymerase chain reaction (PCR) is a technique for exponentially amplifying a specific fragment of DNA, via enzymatic replication without using a living organism. PCR can be used for amplification of a single or few copies of a piece of DNA across several orders of magnitude, generating millions or more copies of the DNA piece. Developed in 1983 by Kary Mullis, who won the Nobel Prize for his work, PCR is now a common technique with wide applications in medical and biological research labs, such as in gene manipulation, prenatal diagnosis, DNA profiling, archaeology, paleontology, diagnosis of hereditary and infectious diseases etc.

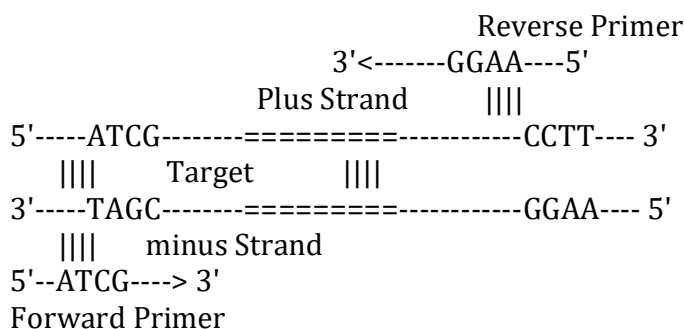
Two primers anneal to denatured DNA template at opposite sides of the target region, and are extended by DNA polymerase to give new strands. Denaturation of DNA template, annealing of primers to the template and extension of the annealed primer constitute one cycle of reaction. After one cycle, new DNA strands of variable length are produced. In cycle 2, the original template strands and the new strands from cycle 1 are separated, yielding a total of four primer sites with which primers anneal. The primers that are hybridized to the new strands from cycle 1 are extended by the polymerase as far as the end of the template, leading to a precise copy of the target region. In cycle 3, double stranded DNA molecules are

synthesized, that are precisely identical to the target region. Further cycles lead to exponential doubling of the target region.

PCR primers are short fragments of single stranded DNA (17-30 nucleotides in length) that are complementary to DNA sequences that flank the target region of interest. Primer provides 3'OH group to which the Taq DNA polymerase and synthesize a new strand, complimentary to the template strand.

Forward & Reverse primers

For a PCR reaction one set of primers is designed- forward & reverse, which are illustrated as:



Rules for designing primers

- In designing primers for PCR, the following rules are followed:
- LENGTH of individual primers should be between 17-30 nucleotides. There is a $\frac{1}{4}$ chance of finding an A, G, C or T in any given DNA sequence; $\frac{1}{16}$ of finding any dinucleotide sequence (eg. AG); $\frac{1}{256}$ of finding a given 4-base sequence. A sixteen base sequence will statistically be present only once in every 4,29,4967,296 bases (4 billion). Thus, the association of a greater-than-16-base oligonucleotide with its target sequence is an extremely sequence-specific process.
- MELTING TEMPERATURE (T_m). It is the temperature at which the duplex DNA is denatured to 50%. T_m of the forward & reverse primers should be nearly same and should be in the range of 55-80°C. A simple formula for calculation of T_m is:
 - $T_m = 4(G + C) + 2(A + T) \text{ } ^\circ\text{C}$
- ANNEALING TEMPERATURE (T_a). The temperature at which the primer anneals to the template. It is required to be standardized and usually it is 5-10°C less than the T_m of the primers.
- GC CONTENT of the primers should be between 40-60%.
- The sequence of forward and reverse primers should not be complimentary to each other, as it could lead to primer-dimer formation.
- The sequence of the primers should be such that it does not lead to the formation of secondary structures (eg. hairpin loop) as it would prevent the binding of primer to the template DNA.
- Components of PCR
 - DNA TEMPLATE that contains the region of the DNA fragment to be amplified.
 - PRIMERS (Forward and Reverse).

- DNA POLYMERASE (Taq polymerase or any DNA polymerase with a temperature optimum at around 70°C), used to synthesize a DNA copy of the region to be amplified. Taq polymerase is a thermo stable DNA polymerase widely used in current PCR practice. It is isolated from the thermophilic bacterium *Thermus aquaticus*.
- DEOXYNUCLEOTIDE TRIPHOSPHATES (dNTPs) from which the DNA polymerase builds the new strands of DNA.
- Enzyme buffer, which provides a suitable chemical environment for optimum activity and stability of the DNA polymerase.
- The PCR is carried out in small reaction tubes (0.2-0.5 ml volumes), containing a reaction volume typically of 20-50 µl that are inserted into a THERMAL CYCLER. This is a machine that heats and cools the reaction tubes within it to the precise temperature required for each step of the reaction.

Steps of PCR

The PCR usually consists of a series of 25 to 35 cycles. Most commonly, PCR is carried out in three steps, often preceded by one temperature hold at the start and followed by one hold at the end.

Primary Denaturation:

Prior to the first cycle, during an initialization step, the PCR reaction is often heated to a temperature of 94°C, and this temperature is then held for 5 minutes. This first hold is employed to ensure that the DNA template is completely denatured.

Secondary Denaturation:

Following this first hold of primary denaturation, cycles of amplification begin, with one step at 94°C for one minute.

Annealing:

The denaturation is followed by the annealing step. In this step the reaction temperature is lowered so that the primers can anneal to the single-stranded DNA template. Brownian motion causes the primers to move around, and hydrogen bonds are constantly formed and broken between primer and template. Stable bonds are only formed when the primer sequence very closely matches the template sequence, and to this short section of double-stranded DNA the polymerase attaches. The annealing temperature (T_a) is calculated as discussed above.

Extension:

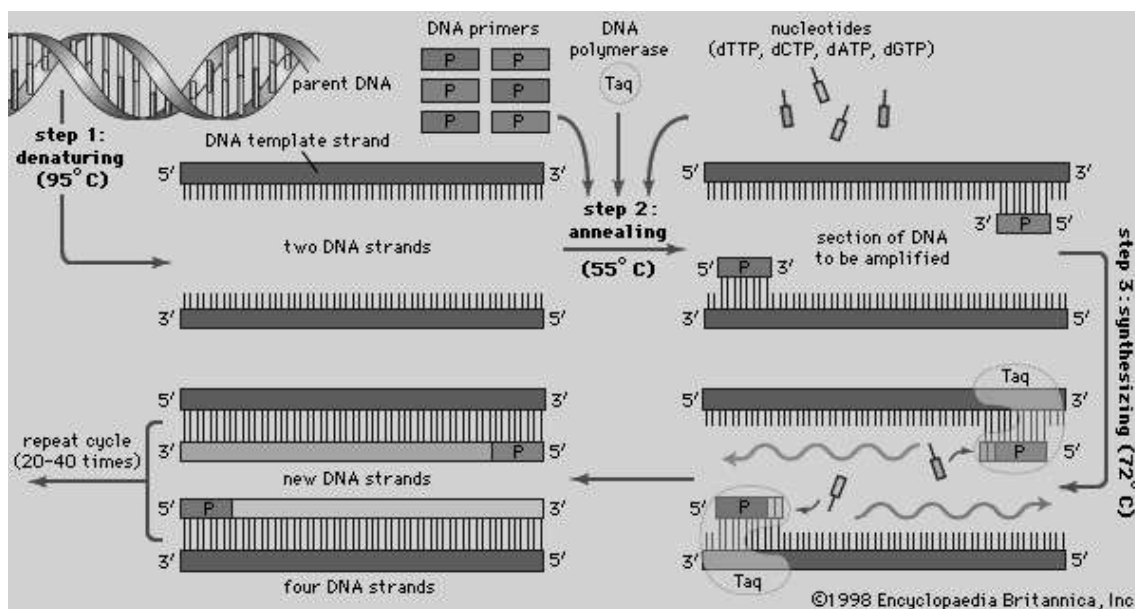
The annealing step is followed by an extension/elongation step during which the DNA polymerase synthesizes new DNA strands complementary to the DNA template strands. The temperature at this step depends on the DNA polymerase used. Taq polymerase has a temperature optimum of 70-74°C; thus, in most cases a temperature of 72°C is used. The hydrogen bonds between the extended primer and the DNA template are now strong enough to withstand the higher temperature. Primers that have annealed to DNA regions with mismatching bases dissociate from the template and are not extended.

Final Extension:

A final elongation step of 5-15 minutes after the last cycle may be used to ensure that any remaining single-stranded DNA is fully extended.

Final Hold:

A final hold at 4°C for an indefinite time may be employed for storage of the reaction, e.g., if reactions are run overnight.

**Procedure:****18S rRNA gene primers-**

Primers	Sequences	Length	Tm	GC%
Forward primer	5'-AACCTGGTTGATCCTGCCAGT-3'	21 bases	54	52
Reverse primer	5'-TGATCCTTCTGCAGGTTACCTAC-3'	24 bases	57	50

Collect all the reagents & materials required for setting up a PCR and place them in ice. Composition of the PCR mix for a standard PCR (100 µL) reaction is:

PCR Reaction Mix:

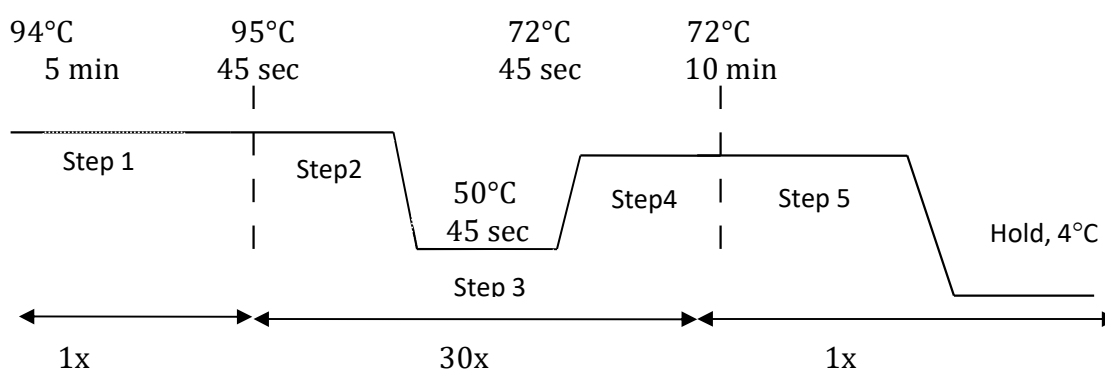
	Amount	Final Concentration
Sterile Distilled Water	51 µl	---
10X Reaction buffer	10 µl	1X
dNTPs Mix	04 µl	100 µM of each dNTP
Forward primer	04 µl	20 µM
Reverse primer	04 µl	20 µM
Template DNA	25 µl	300 ng
Taq DNA polymerase	02 µl	6U
TOTAL	100 µl	

As described above, prepare one more PCR mix that shall serve as negative control. DNA template is not added to the mix; instead an equivalent volume of autoclaved water is added so as to keep the final volume of the mix constant.

The conditions for the PCR for isolating 18S rRNA genes were standardized and following conditions were used for isolating the gene. The amplification was carried out for 30 cycles.

Cycle	Denaturation	Annealing	Extension
First	95°C for 5 min.	54°C for 1 min.	72°C for 1 min.
Subsequent	95°C for 45 sec.	54°C for 45 sec.	72°C for 45 secs.
Last	95°C for 45 sec.	54°C for 45 sec.	72°C for 10 min.

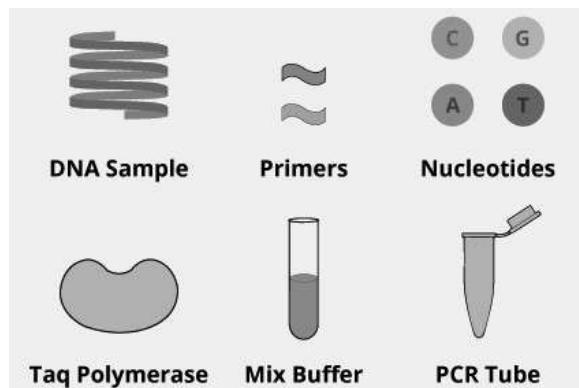
After preparation of cocktail, place PCR tubes in thermal cycler. Programme the machine as follows: (Temperature for step3 varies with each gene, which is represented as X°C here).



Once the temperature of the machine comes to 4°C, take out the tubes, place them in ice. Take an aliquot (3-5- μ L) of the PCR product from the tube and analyze on agarose gel (1%). Along side load a 100 bp DNA marker.

Flow Chart for PCR

Collect all the PCR components in ice, thaw them and briefly centrifuge.



↓

Label two tubes as E and C and prepare the PCR mix as per the table.

↓

Briefly centrifuge PCR tubes to collect all drops from walls of tube.

↓

Place the tubes in the thermocycler and programme it as explained in the drawing.

↓

After completion of cycles of PCR, analyse the products by agarose gel electrophoresis (0.8 % agarose, at 100 V for 30 minutes).

↓

Once the tracking dye front migrates to three-fourth of the gel length, observe DNA bands on a UV-Transilluminator.

Observation:

A single DNA band of 1,700 bp (base pair) was observed on agarose gel [size was estimated by comparing the position of the DNA band with that of the corresponding band in the DNA marker (100 bp ladder)].

Result:

PCR amplification of 18S rRNA gene was successfully done and the PCR product yield is approx. 45 ng/ μ L

Discussion:

PCR product of the expected size was observed. Presence of a single sharp DNA band and absence of smear indicates that the non-specific annealing of the primers did not take place.

Precautions:

- 1) Keep all the reagents and PCR tubes in ice at the time of preparation of PCR mix.
- 2) Frequent freeze-thaw of the reagents should be avoided. Store all the stock solutions as aliquots at -20°C deep freezers.
- 3) All the plastic ware (micropipettes tips, PCR tubes) should be autoclaved.
- 4) Before putting up the PCR reaction, test the quality of the template DNA by agarose gel electrophoresis.
- 5) Ensure that all the components of the PCR mix are added to the tube.
- 6) Every PCR reaction should include a negative control to ensure that reagents are not contaminated with any DNA template, which could result in non-specific amplification.

Experiment 5

Aim: To study phylogenetic relationships using molecular tools and Computational Biology

Introduction

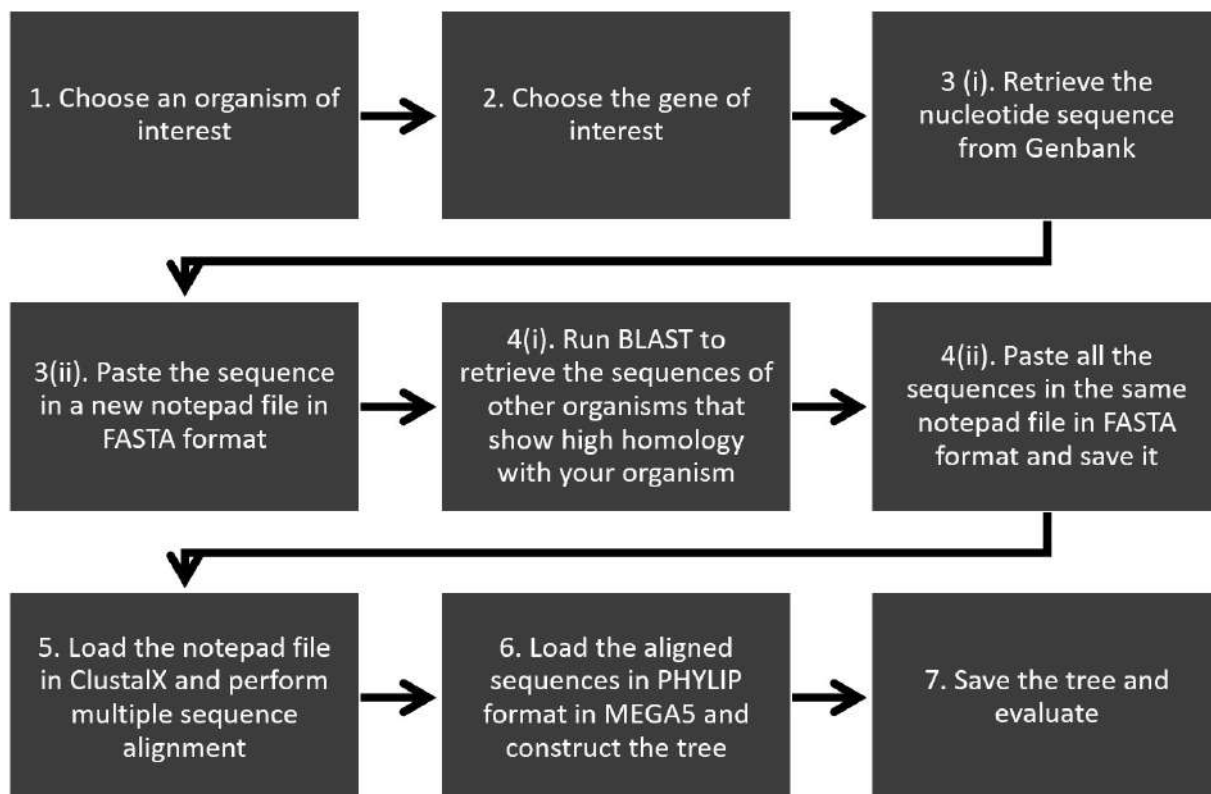
It would be difficult to communicate about the vast diversity of life unless they are named in a universal pattern. Taxonomy, the field of science classifies life into groups, from bacteria to man. Linnaeus pioneered the grouping of organisms based on scientific names using Latin – a system called binomial nomenclature. His scheme was based on physical similarities and differences, referred to as characters. Today, taxonomic classification is much more complex and takes into account cellular types and organization, biochemical similarities, and genetic similarities. Taxonomy is but one aspect of a much larger field called systematics. Taxonomic ranks approximate evolutionary distances among groups of organisms. For example, species belonging to two different super kingdoms are most distantly related (their common ancestor diverged in the distant past), with progressively more exclusive groups indicated by phylum, class and so on, down to infra-specific ranks, or ranks occurring within a species. Taxonomists, scientists who classify living organisms, define a species as any group of closely related organisms that can produce fertile offspring. Two organisms are more closely "related" as they approach the level of species, that is, they have more genes in common. The level of species can be further divided into smaller segments. A population is the smallest unit of a species and is made up of organisms of the same species. Linnaeus is credited with pioneering systematics, the field of science dealing with the diversity of life and the relationship between life's components. Systematics elucidates new methods and theories that can be used to classify species based on similarity of traits and possible mechanisms of evolution, a change in the gene pool of a population over time.

Phylogenetic systematics is that field of biology that does deal with identifying and understanding the evolutionary relationships among the many different kinds of life on earth, both living (extant) and dead (extinct). Evolutionary theory states that similarity among individuals or species is attributable to common descent or inheritance from a common ancestor. Thus, the relationships established by phylogenetic systematics often describe a species' evolutionary history and, hence, its phylogeny, the historical relationships among lineages or organisms or their parts, such as their genes.

Darwin was the first to recognize that the systematic hierarchy represented a rough approximation of evolutionary history. However, it was Hennig who proposed that systematics should reflect the known evolutionary history of lineages as closely as possible, an approach he called phylogenetic systematics. The followers of Hennig were referred to as "cladists" because of the emphasis on recognizing only monophyletic groups, a group plus all of its descendents, or clades. Systematics describes the pattern of relationships among taxa and is intended to help understand the history of all life. But history is not something that can be seen—it has happened once and leaves only clues as to the actual events. Scientists use these clues to build hypotheses, or models, of life's history. In phylogenetic studies, the most convenient way of visually presenting evolutionary relationships among a group of organisms is through illustrations called phylogenetic trees.

The four steps of Phylogenetic Analysis

1. Alignment—building the data model and extracting a dataset
2. Determining the substitution model—consider sequence variation
3. Tree building
4. Tree evaluation



Use of molecular tools to study Phylogenetic relationship:

Step 1: Choose an organism of your interest (In the present Investigation ciliate, *Notohymena* was chosen)

Step 2: Choose the gene of your interest (18S gene sequence was chosen to study phylogenetic relationship)

Step 3: Use the database to search the selected gene sequence. Retrieve all the sequences in FASTA format and paste in notepad file

Biological Databases: A biological database is a large, organized body of persistent data usually associated with computerized software that is designed to update, query and retrieve components of the data stored within the system. Bioinformatics databases are electronic reservoirs of information. Databases are employed with file oriented systems and are compact, fast, easy to use, current and accurate, allowing the easy sharing of data between multiple users and are secure. There are two main functions of biological databases:

- *To make biological data available to scientists*
As much as possible of a particular type of information should be available in one single place (book, site, database). Published data may be difficult to find or access, and collecting it from the literature is very time-consuming. And not all data is actually published explicitly in an article (like genome sequences!).
- *To make biological data available in computer-readable form*
Since analyses of biological data almost always involves computers, having the data in computer-readable form (rather than printed on paper) is a necessary first step.

Types of Biological Databases:

- 1) Nucleotide sequence database
- 2) Protein sequence database
- 3) Organism specific database
- 4) Genome specific database

1) Nucleotide sequence Databases

Primary sequence databases are repositories for raw sequence data and can be accessed freely over the World Wide Web. There are three such databases, comprising the **International Nucleotide Sequence Database Collaboration**. These are **GenBank**, maintained by the **National Centre for Biotechnology Information (NCBI)**, the **Nucleotide Sequence Database** maintained by the **European Molecular Biology Laboratory (EMBL)**, and the **DNA Databank of Japan (DDBJ)**.

- GenBank (**N**ational **C**enter for **B**iotechnology **I**nformation, NCBI)

<http://www.ncbi.nlm.nih.gov/>

- EMBL (**E**uropean **M**olecular **B**iology **L**aboratory)

<http://www.ebi.ac.uk/>

- DDBJ (**D**NA **D**ata **B**ank of **J**apan)

<http://www.ddbj.nig.ac.jp/>

New sequences can be deposited in any of the databases since they exchange data on a daily basis.

GenBank, which is built by National Center for Biotechnology Information, is a part of International Nucleotide Sequence Database Collaboration along with its two partners: DDBJ and EMBL. GenBank incorporates sequences from publically available sources, primarily from direct author submissions and large sequencing projects. These databases are maintained on a daily basis. All EMBL and DDBJ entries are also contained in GenBank.

The increasing size of the database, along with the diversity of data sources available, have made it convenient to split GenBank into smaller, discrete divisions, which are as follows:

PRI-Primate; ROD-Rodent; MAM-Other mammalian; VRT-Other vertebrates; INV-invertebrate; PLN-Plant, fungal, algal; BCT-Bacterial; RNA-structural RNA; VRL-Viral; PHG-Bacteriophage; SYN-synthetic; UNA-Unannotated; EST- EST (Expressed sequence tags); PAT-Patent; STS-STS (Sequence tagged sites) GSS-GSS (Genome survey sequences; HTG-HTG (High throughput genomic sequences).

USE OF DATABASE (NCBI) TO RETRIEVE THE SEQUENCES

STEP I → Enter the organism name and gene of interest in the Genbank (NCBI) nucleotide database and click "Search"



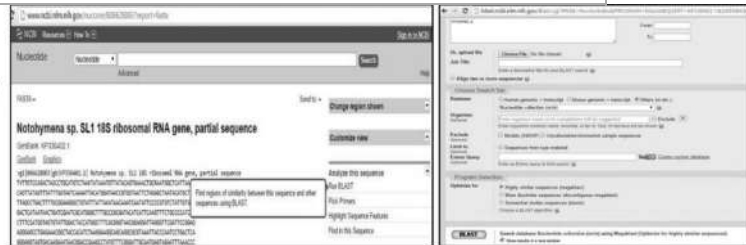
STEP II → As soon as flat file opens, click on FASTA to retrieve the sequence in FASTA format. Then copy the sequence in FASTA in a new notepad file.



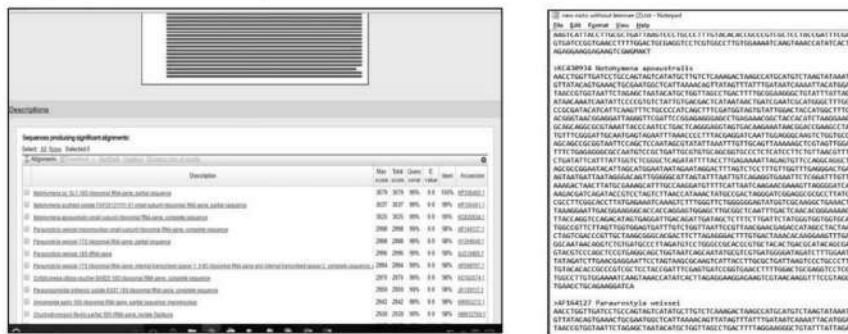
<http://www.ncbi.nlm.nih.gov/>

National Center for Biotechnology information homepage. A resource for public databases, bioinformatics tools and applications. Links to

STEP III → Run BLAST to get the homology sequences



STEP IV → Retrieve the sequences of all the organisms showing maximum similarity with the organism of interest and paste in the same notepad in FASTA format. Save the file.



Step 4: Homology Search Using BLAST to detect Sequence Similarities

BLAST (Basic Local Alignment Search Tool): is a family of programs, where each member performs a different task. BLAST is easily accessed from the NCBI site and is used for performing homology search, for constructing phylogenetic trees etc.

Nucleotide BLAST: Compares input nucleotide sequences against other nucleotide sequences.

Pair wise BLAST: performs the pairwise comparison between two sequences using the BLAST algorithm.

There are following program options:

Step 5: Multiple Sequence Alingment for constructing phylogenetic tree

Sequence alignment is defined as aligning two sequences, one below the other and scoring the similarities and differences at each and every nucleotide or amino acid level. Sequence alignment is useful for discovering functional, structural and evolutionary information in biological sequences. It is important to obtain the best possible or so called “optimal” alignment to discover this information. Sequences that are very much alike, or similar according to sequence analysis, have the same function. Additionally, if two sequences from different organisms are similar, there may have been a common ancestor sequence, and the sequences are defined as being homologous.

Sequence alignment of two types:

- **Pair-wise alignment** compares two sequences, one of the pairs would be new or unknown while other sequence would be of its known structure and function.
- **Multiple sequence alignment** compares more than two sequences.

Some database search tools like BLAST, FASTA are some of the programs which perform intensive pair wise alignment of the query sequence to all the database sequences with best scores.

Multiple alignment in which more than two sequences are compared, is used for finding conserved regions among gene sequences and protein sequences, to study phylogenetic relationship of macromolecular sequences i.e. to find evolutionary related organisms. The major multiple alignment software are ClustalW and ClustalX

ClustalW is a general purpose multiple sequence alignment program for DNA or proteins sequences. It is available over the web at the European bioinformatics institute. It produces biologically meaningful multiple sequence alignments of divergent sequences. It calculates the best match for the selected sequences, and lines them up so that the identities, similarities and differences can be seen. Evolutionary relationship can be seen via viewing Cladograms or Phylograms. It is useful in comparing sequences from different sources. For example studying differences and similarities between sequences from different organisms, resulting in the identification of regions that are conserved from species to species.

This can be either downloaded or used online at <http://www.ebi.ac.uk/clustalw/>.

ClustalX is the X- window bases friendly version of ClustalW, which can be downloaded and used locally on our machine.

The alignments produced by the two programs are exactly the same, the only difference between ClustalW and ClustalX is the way in which the user interacts with the program.

Output file from sequence alignment programs comes in anyone of a number of formats. Multiple sequence format (MSF) is used by several software tools e.g. Clustal W/X has its own ALN format. In

phylip interleaved format the first part of the file should contain the first part of each of the sequences, then possibly a line containing nothing but a carriage-return character, then the second part of each sequence, and so on. Only the first parts of the sequences should be preceded by names. Here is a hypothetical example of interleaved format:

```

5 42
Turkey AAGCTNNGGC ATTTTCAGGGT
Salmogair AAGCCTTGGC AGTGCAGGGT
H.Sapiens ACCGTTGGC CGTTCAGGGT
Chimp AAACCCTTGC CGTTACGCTT
Gorilla AAACCCTTGC CGGTACGCTT

```

```

GAGCCCGGC AATACAGGGT AT
GAGCCGTGGC CGGGCACGGT AT
ACAGGTTGGC CGTTCAGGGT AA
AAACCGAGGC CGGGACACTC AT
AAACCATTGC CGGTACGCTT AA

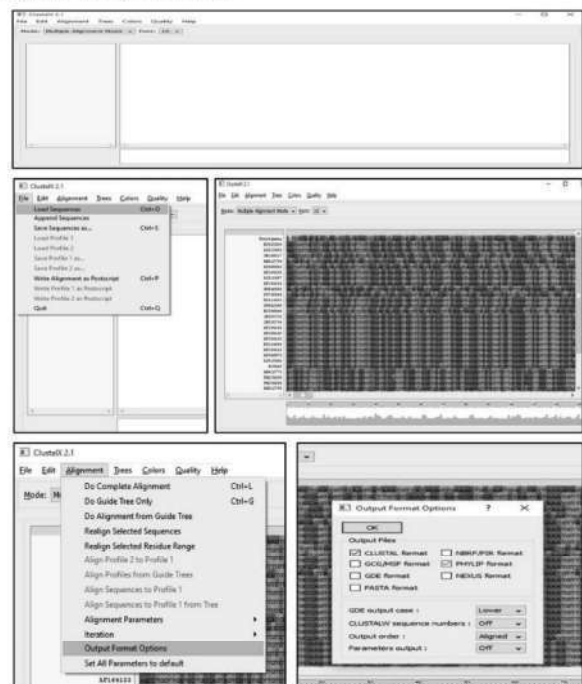
```

5. Multiple Sequence Alignment by ClustalX

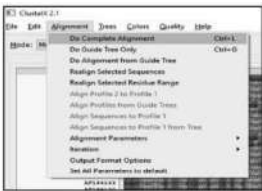

STEP I → Open ClustalX 2.1 and set the Mode in "Multiple Alignment Mode".

STEP II → Open File, click on "Load Sequences" option and open the file saved in .txt format

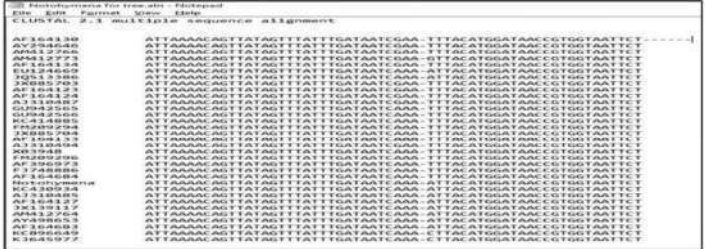
STEP III → Go to "Alignment". Select "Output Format Options" from the dropdown menu and select "PHYLIP format." Then click on "OK"



STEP IV → Again go to Alignment. Click on “Do Complete Alignment”. After alignment, 3 files will be created: in .aln format, in .phy format and .dnd format

STEP V → Open .aln file and do the alignment by removing the blank spaces. Then again go to file, select load sequences and open the modified .aln file. Go to “Alignment” and “Do Complete Alignment”.




STEP VI → Again 3 files in .aln, .phy and .dnd format will be formed. Now save the .phy file for constructing tree by MEGA software


Step 6: Tree making software: Mega5

6. STEPS FOR CONSTRUCTING PHYLOGENETIC TREE USING MEGA 5.05 SOFTWARE:

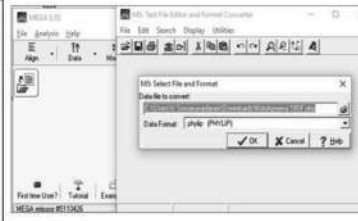
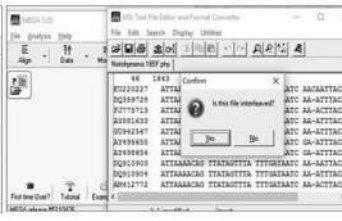
STEP I → Open MEGA software



STEP II → Click on File option and select “Convert File format to MEGA” option



STEP III → Open the aligned file in PHYLIP format and click OK. Then click “Yes” for the question (“Is this file interleaved?”) that appears in the dialog box. Then save the file in .meg format. After saving it, close the file.



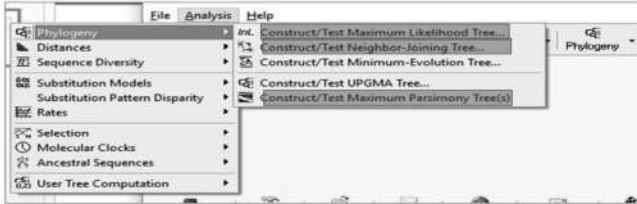


STEP IV → Click on "File" again and select "Open A file/Session" option and open the file saved in .meg format.

STEP V → Select "Nucleotide sequences" and click OK.

STEP VI → Now click on "Analysis" option and select "Phylogeny" from the dropdown menu to construct tree by Maximum Likelihood, Neighbor-Joining or Maximum Parsimony method.

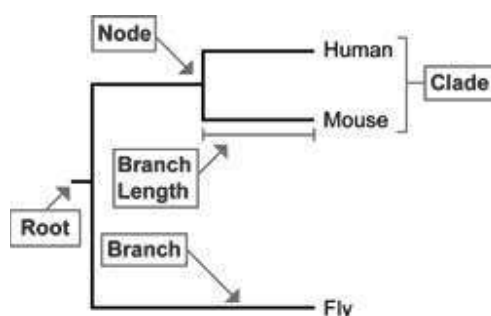
STEP VII → Set Bootstrap value as 1000 and click on "Compute" to construct the tree

STEP VIII → Finally the tree obtained can be copied to the word file by selecting "Image" option and clicking on "Copy to Clipboard". And then after final editing, the tree can be saved in word file.

Step 7: Tree Evaluation

Phylogenetic Trees are a representation of evolutionary relationships.



- Node: represents a taxonomic unit. This can be either an existing species or an ancestor.
- Branch: defines the relationship between the taxa in terms of descent and ancestry.
- Topology: the branching patterns of the tree.

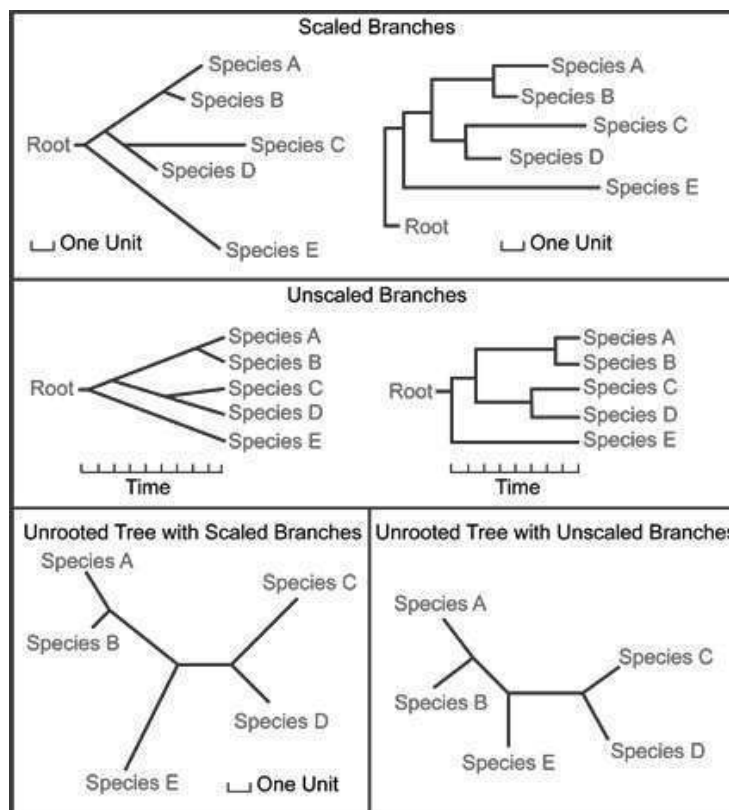
- Branch length: represents the number of changes that have occurred in the branch.
- Root: the common ancestor of all taxa.
- Distance scale: scale that represents the number of differences between organisms or sequences.
- Clade: a group of two or more taxa that includes both their common ancestor and all of their descendents.

A phylogenetic tree is composed of nodes, each representing a taxonomic unit (species, populations, individuals), and branches, which define the relationship between the taxonomic units in terms of descent and ancestry. Only one branch can connect any two adjacent nodes.

The branching pattern of the tree is called the topology, and the branch length usually represents the number of changes that have occurred in the branch. This is called a scaled branch. Scaled trees are often calibrated to represent the passage of time. Such trees have a theoretical basis in the particular characters under analysis.

Branches can also be unscaled, which means that the branch length is not proportional to the number of changes that has occurred, although the actual number may be indicated numerically somewhere on the branch.

Phylogenetic trees may also be either rooted or unrooted. In rooted trees, there is a particular node, called the root, representing a common ancestor, from which a unique path leads to any other node. An unrooted tree only specifies the relationship among species, without identifying a common ancestor, or evolutionary path.



Possible ways of drawing a tree

“Molecular Biology Techniques”



*Acharya Narendra Dev College
(University of Delhi)
Govindpuri, Kalkaji
New Delhi-110019
<http://andcollege.du.ac.in/>*



Department of Zoology
Acharya Narendra Dev College

&

Deen Dayal Upadhyaya College
(University of Delhi)

under the aegis of



सत्यमेव जयते
UNIVERSITY OF DELHI
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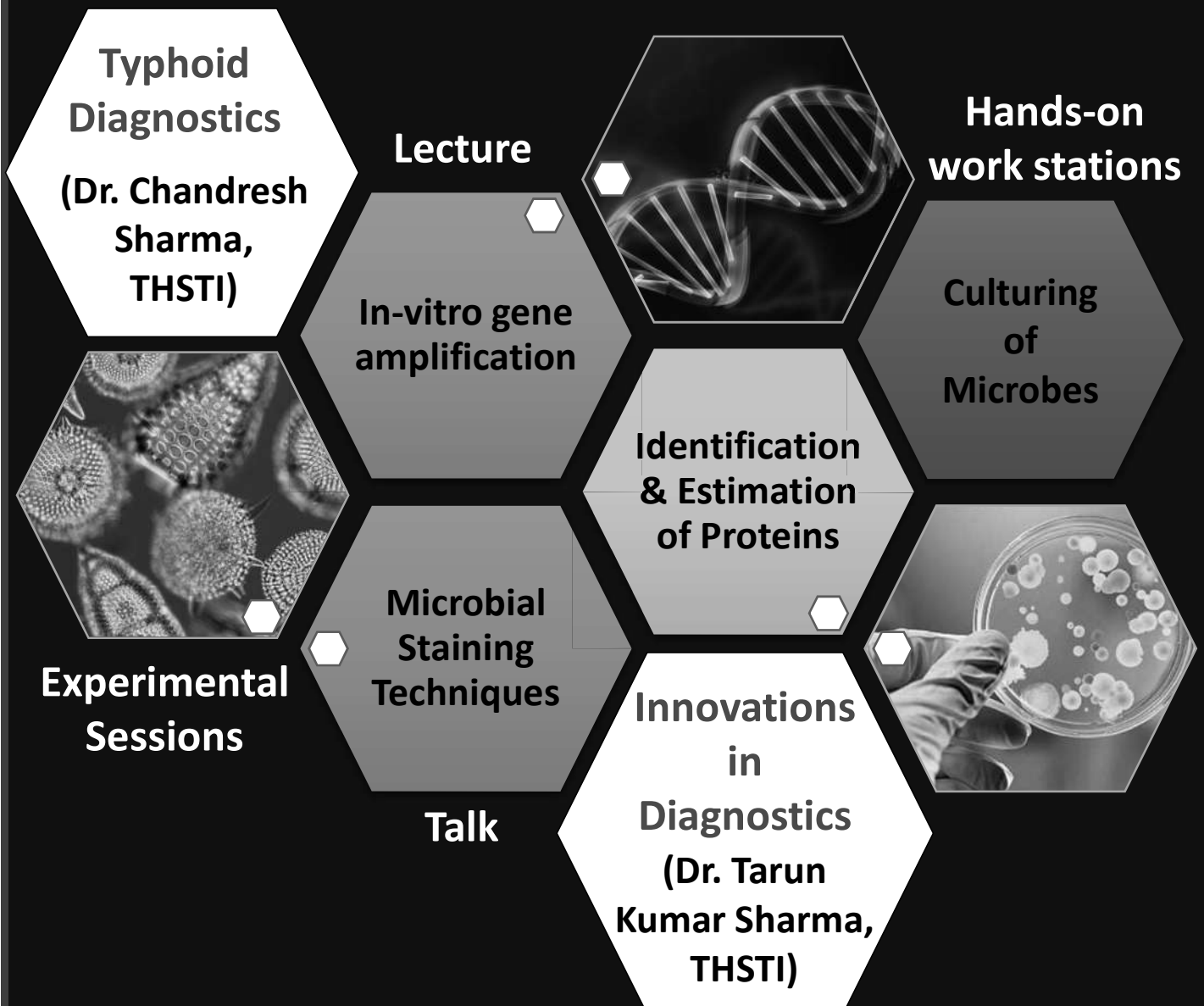
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Resource Person

Dr . Puja Kaura

PhD, MBA

Assistant Professor (Finance)
School of Business and Management
Christ (Deemed to be University) ,
Delhi, NCR.



Moderator

Dr Sunita Jetly

Associate Professor

Dept. Of Biomedical Sciences
Acharya Narendra Dev College
University Of Delhi

No Registration Fee :Limited Seats are available

Registration will be done on First come First serve basis

Registration Link :<https://forms.gle/Bo7yq63hqv7Sax2T9>

Patron

**Dr. Ravi Toteja
Acting Principal**

IQAC coordinator

**Dr. Yasheshwar
Dept. Botany**

Contact Details

email: sunitajetley@andc.du.ac.in, yasheshwar@andc.du.ac.in

phone: +91- 9312922180



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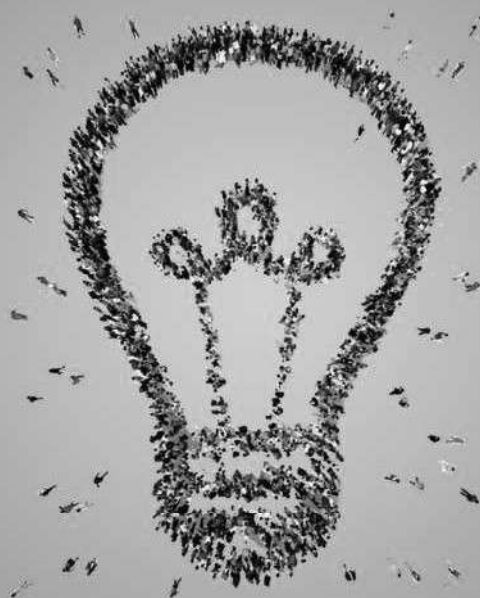
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Narendra Dev College

**Lecture Talk and Interaction
with**

PROF. MARIJA STROJNIK



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NAVIGATION
SYSTEM WITH
INTELLIGENT
CAMERA FOR
SPACE AND EARTH

10:00AM -11:30 AM

11:45 AM -1:30 PM

Oct 15

2. WOMEN AT THE
CENTER-
MOTIVATIONAL
SESSION WITH
PROF. MARIJA
STROJNIK

**DISTINGUISHED
PROFESSOR**

OPTICAL RESEARCH CENTER, MEXICO



Acharya Narendra Dev College

(University of Delhi)

Page No. 197
SPIE. STUDENT CHAPTER
UNIVERSITY OF DELHI AT ACHARYA NARENDRA DEV COLLEGE

ELECTROBLITZZ

**Under the aegis of DBT STAR COLLEGE SCHEME
and in collaboration with SPIE STUDENT Chapter ANDC
PRESENTS**

Technical Talk on IoT and Connectivity Solutions



Chief Guest

MR. DEVENDER DHAWAN

Founder of TouchTECHNO, NEW DELHI

TIMINGS: 9:30 AM - 11:00 AM

VENUE: SEMINAR HALL

Acharya Narendra Dev College
University of Delhi

On the occasion of completion of
25 Years
of

Department of Botany

TARUMITRA : THE BOTANICAL SOCIETY

Under the aegis of DBT Star College Scheme

Presents inaugural lecture by the Department's Alumni

**BEING IN BIOMEDICAL
RESEARCH IN INDIA: FROM
A RAT RACE TO TAKING UP
REAL CHALLENGE OF COMBATING
DISEASES.**

By : Dr. C. V. Srikanth
Associate Professor
RCB, Faridabad



Time : 10:00 a.m. to 11:00 a.m.

**BIO PROSPECTING :
A PATH FROM ECOLOGY
TO ENTREPRENEURSHIP.**

By : Dr. Vandana Mishra
Assistant Professor (Sr.)
Deptt. of Environmental Studies, DU



Time : 11:00 a.m. to 12:00 noon

Date : September 25, 2019

Venue : Seminar Hall



Acharya Narendra Dev College
(University Of Delhi)

The Botanical Society
TARUMITRA



प्रणयम्

25th Feb' 2020

A talk on
Hitchhiker's Guide To
Integrative Systems Biology

By:-



Dr Amit Yadav
Translational Health Science
And Technology Institute

PRIZES
WORTH
Rs70,000

Comic-o-Botanica
On The Spot Funny Story Narration

Debris Décor
Reusing The Waste

Mehfil-e-Botany
The Poetry Competition

Hit The Street
Intra-College Gully cricket

Quizzical Bog
The Science Quiz

Act It out
The Botanical Dumb Charades

Mystery Of Flora
The Treasure Hunt

President: Yash Gupta 9773789908
Secretary: Neha Singh 9958932167
Treasurer: Devangna Sharma 8527763734

Convener-Dr. Rashmi Sharma

Note: Online registration will start from Feb'21 2020. Register offline on the registration desk near Dhwani room on Feb'24 and Feb'25, 2020

Our Sponsors:-





ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31

DBT STAR COLLEGE | NIRF Ranking '24'



Department of Commerce

Organises

Let's Talk Session
ON

'Stock Market'

Mr. Neeraj Arora

(Chartered Accountant)

January 17, 2020

Venue:- Seminar Hall

International Bacteriophage Research Consortium

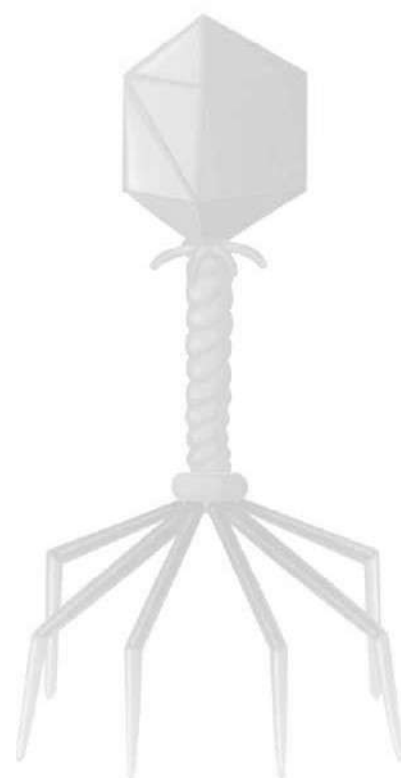
Presents lecture by



Professor Graham Hatfull

Mycobacteriophages: Diversity, Dynamics and Therapy

Graham Hatfull is an Eberly Family Professor of Biotechnology and HHMI Professor in the Department of Biological Sciences in the Kenneth P. Dietrich School of Arts and Sciences at the University of Pittsburgh, USA. He has recently been elected as the member of the American Academy of Arts and Sciences.



June 17, 2020

6:30 pm IST  9:00 am EDT 



@phageconsortium

Scan the QR Code to register





ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Accreditation Grade 'A' | Mentor under UGC *PARAMARSH* Scheme

presents

WEBINAR ON

“Deciphering the language of DNA”



Dr. Akhilesh Mishra

(PhD, IIT Delhi)

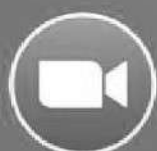
Project Scientist

National Anti-Microbial Resistance Program

Friday, May 15, 2020 | 3:30 p.m.

Organized by

Department of BioMedical Sciences, under the aegis of DBT STAR College Scheme



zoom

Join us Live via ZOOM Meeting

Meeting ID: 748 009 7868

Meeting Password: 5UTRZE

Visit

<http://andcollege.du.ac.in>



ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31
NIRF RANKING-18 | DBT STAR COLLEGE

Department of Biomedical Sciences
presents

Covid 19 Truths and Myths

Mr. Muneeb A Fiaq

10 AM ONWARDS

Dr. Sunita Jetly

Faculty
(Department of Biomedical Sciences)

Date:- June 09,2020

Venue:- Seminar Hall



Acharya Narendra Dev College
University of Delhi
 NAAC Accreditation Grade 'A' | Mentor under UGC PARAMARSH Scheme
Eco Club 'Paritantra'



Announces
National Webinar on
Our Environment and COVID-19

The virus that causes COVID-19, spreads through the environment. The role of environmental advocacy has never been more important given the planetary crisis. This webinar will discuss how human behavior plays an important role in viral transmission and the impact of COVID-19 on society and global environment.

The webinar will include:

Lecture Sessions

- Environmental Sustainability for Business Continuity, Resilience and COVID-19 Lessons
- Addressing Air Pollution: Problem and Prospects in Post-Pandemic Time
- Noise Pollution and Wildlife: Lessons from the COVID Era

Panel Discussion

- Does human-led environmental destruction contribute to the spread of the coronavirus?
- Have CO₂ emissions and air pollution dropped- thanks to COVID-19?
- Is the coronavirus pandemic beneficial for climate?
- Is coronavirus pandemic linked to destruction of wildlife?

Quiz Competition

The details will be shared with the participants after registration

Speakers/ Panelists



Prof. Anil Kumar Gupta
 Head and Program Director
 National Institute for Disaster
 Management, New Delhi



Dr. Kamna Sachdeva
 Department of Energy and
 Environment
 TERI, New Delhi



Mr. Sohail Madan
 Principal Investigator
 Asola Bhatti Wildlife Sanctuary
 Conservation Project



Dr. Gaurav Sharma
 Managing Director
 Green Skill Solutions

REGISTER @ <https://forms.gle/nr6akRUvHg4yppvc7>

No registration fees (First come first basis)
 e-Certificates will be provided to the registered participants after receiving the feedback
 Certificate of Appreciation for the winners of Quiz Competition

Date: June 5, 2020
Time: 3:00 pm to 4:30 pm

Team Eco Club 'Paritantra'

Patron	Conveners	Members	Ms. Anuradha Sarin	Dr. Yash Mangla
Dr. Ravi Toteja	Dr. Gagan Dhawan	Dr. Arijit Chowdhuri	Dr. Vatsla Kohli	Dr. Neelakshi N.K. Borah
Acting Principal	Dr. Seema Gupta	Dr. Charu K. Gupta	Dr. Gaurav Sharma	Dr. Shashi Shekhar
		Dr. Neeti Misra	Dr. Satendra Singh	Dr. Siddhartha
		Dr. Rashmi Thukral	Dr. Priti Goyal	Dr. Satya Prakash
			Mr. Abhay Pratap	Dr. Rakesh K. Sonkar

For any queries: gagandhawan@andc.du.ac.in



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

NAAC ACCREDITED : 'A' Grade

Turing Society

Department of Computer Science

(Under the Aegis of Star Scheme College , 2019-2020)

PRESENTS

TECHNICAL TALK

On

SYSTEM AUTOMATION AND HA CLUSTERING

07 November 2019

Venue : Conference Room , Time : 10 : 00 AM Onwards

SPEAKER



MR. MANISH BANSAL
(ALTRAN TECHNOLOGIES)



ACHARYA NARENDRA DEV COLLEGE (University of Delhi)

NAAC Accreditation Grade 'A' | Mentor Under UGC PARAMARSH Scheme



UNRAVELING THE SOCIAL NETWORK OF COVID-19 IN INDIA FROM 30 JAN TO 6 APR 2020

A live Webinar with

DR. SARITA AZAD



ASSISTANT PROFESSOR
IIT, MANDI, HIMANCHAL PRADESH, INDIA

VISIT

www.andcollege.du.ac.in

Organised By :
DEPARTMENT OF COMPUTER SCIENCE
(under the Aegis of DBT Star College Scheme)


WEBINAR



15 JUNE 2020
(MONDAY)
11:30 AM - 12 : 30 PM

Google meet link: <http://meet.google.com/ori-bqoc-xky>



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Accreditation Grade 'A' | Mentor under UGC PARAMARSH Scheme

presents

WEBINAR ON

The growth of Linnaean thought, impact of common descent and current understanding



by

Professor Himender Bharti

Head, Department of Zoology & Environmental Sciences
Punjabi University, Patiala

Monday, May 11, 2020 | 4:00 p.m.

Organized by

Department of Zoology, under the aegis of DBT STAR College Scheme



Join us Live via ZOOM Meetings

<https://zoom.us/j/2057117811?pwd=VXBzVVVbvekUrcDE5T1MvaGxzLzR6dz09>

Meeting ID: 205 711 7811

Password: 7KbhV4

Visit

<http://andcollege.de.ac.in>



Acharya Narendra Dev College

University of Delhi

NAAC Accreditation Grade 'A' | Mentor Under UGC PARAMARSH Scheme

COVID 19 Impact Strategies for Education & Challenges in Virtual Learning

A live webinar with

Swaranjeet singh Chatwal



Director

Hartek Group of Companies

VISIT

www.andcollege.du.ac.in

Organized by

Department of Chemistry

under the aegis of DBT STAR College Scheme

WEBINAR



20th may, 2020

(Wednesday)

11:30 AM

google meet (link will be provided same day)



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

NAAC accredited 'A' grade



Department of Physics

(under the aegis DBT STAR College scheme)
is privileged to host



Professor Kedar Singh

Dean, School of Physical Sciences,

Jawaharlal Nehru University, New Delhi (INDIA)

"Materials for Future

Generation Photovoltaic Solar Cells"

The Department cordially invites all students and colleagues to an interactive session on

Date: 05 March, 2020 (Thursday)

Time: 9:30 a.m.

Venue: Physics Laboratory – III

Organizer: Department of Physics, ANDC



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Accreditation Grade 'A' | Mentor under UGC *PARAMARSH* Scheme
DBT Star College

&



TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE

An autonomous institute of Department of Biotechnology
Ministry of Science and Technology, Govt. of India

SCIENCE SETU PROGRAMME

Venue: SEMINAR HALL, ANDC | Date: February 25, 2020

Time: 12:00 p.m. to 02:00 p.m.

12.00 to
12:15 PM

Welcome Address

Dr. Ravi Toteja
Acting Principal, ANDC



Dr. Chandresh Sharma
Research Scientist, THSTI
Typhoid Diagnostics

12.15 to
12:45 PM

12.45 to
01:15 PM

Dr. Tarun Kumar Sharma
Senior Research Scientist, THSTI
Innovation in Diagnostics



Panel Discussion

01.15 to
01:45 PM

01.45 to
02:00 PM

Vote of thanks



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

NAAC accredited 'A' grade



Department of Physics

(under the aegis DBT STAR College scheme)
is privileged to host



Mr. Bishal K. Das

Department of Ecology, Faculty of Environmental Science,
Czech University of Life Science, Prague, CZECH REPUBLIC

The Department cordially invites all students and
colleagues to an interactive session on

"Do I see myself doing Science ?"

Date: 09 January 2020 (Thursday)

Time: 10.45 a.m.

Venue: Physics Laboratory – III



ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)
ABHIKRIYA, The Chemistry Society

under the aegis of
DBT Star College Scheme
organizes



Seminar on Intellectual Property Rights



Dr Nidhi Sandal
Scientist E
INMAS, DRDO



Dr Arul George Scaria
Assistant Professor Law
Co-director CIIPC
National Law University



Mr Ravi Chadha
Partner Trademark –
Rahul Chaudhary &
Partners

Dr Pankaj Khanna
Convenor

Dr Ravi Toteja
Patron

Dr Sunita Hooda
DBT Star Coordinator, Chemistry



Date: 7th November, 2019

Time: 9:30 am

Venue: Seminar Hall

Seminar on Intellectual Property Rights

November 7th, 2019 (Thursday)

under DBT Star College Scheme

Organised by

ABHIKRIYA, The Chemistry Society

Acharya Narendra Dev College (University of Delhi)

Govindpuri, Kalkaji- 110019

Venue: Seminar Hall

Programme Schedule

- 09:30 AM-10:00 AM Inauguration
Welcome Address by Dr. Ravi Toteja, Principal
Introduction of the Seminar by Dr. Pankaj Khanna, Convener
- 10:00 AM-11:15 AM ***Patents***
Dr Nidhi Sandal
Scientist E, INMAS DRDO
- 11:15 AM-11:30 AM Tea Break
- 11:30 AM-12:45 PM ***Trademarks***
Mr Ravi Chadha
Partner Trademarks- Rahul Chaudhry & Partners
- 12:45 PM-1:30 PM Lunch Break
- 1:30 PM-2:45 PM ***Copyright***
Dr Arul George Scaria
Assistant Professor, National Law University, Delhi

Department of Physics
(under the aegis DBT STAR College scheme)
is privileged to host



Ms. Priya Chopra

Bonn-Cologne Graduate School of Physics and Astronomy
(BCGS), Bonn, GERMANY

Department cordially invites all students and colleagues
to an interactive session on

**"Quartz Crystal Microbalance (QCM) for
environmental monitoring and gas detection"**

: 12 September 2019 (Thursday)



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

presents a workshop on

Unravel the Microbial World

Take your microscope along

September 9, 2019

Under the aegis of DBT Star College Scheme

Presided by

Dr Anupama Harshal
K.C. College, Mumbai
Indo-US Foldscope Awardee



Time –1:00 p.m. to 5:00 pm
Venue: Seminar Hall

Organized by
Department of Zoology



Acharya Narendra Dev College
(University of Delhi)



NICHE
THE ZOOLOGICAL SOCIETY

(Under DBT Star Scheme)



Organizes

TALK

"PROTECTING WILDSCAPES
IN CONTEMPORARY INDIA"

By

Mr. Debadityo Sinha

Founder of Vindhyan Ecology and
Natural History Foundation

AUGUST 30, 2019

**Time: 10:30am
onwards**

**Venue:
Conference Hall**



DEPARTMENT OF BIOMEDICAL SCIENCE ACHARYA NARENDRA DEV COLLEGE

(University of Delhi, New Delhi)



(Under the Aegis of DBT-STAR College Scheme)

Presents

BMS 'Alumni' Lecture Series

Shruti Murlidhar
BMS Batch
2002-2005



Abhishek Chari
BMS Batch
2003-2006

“An interactive session on Science Communication”

Dr. Muralidhar is a postdoctoral research associate at the Picower Institute at MIT, USA. She is the one of the core members of **IndSciComm** and likes doing doodles, drawings, videos and gifs. She is passionate about role of scientists as communicators and works towards highlighting problems & contributions of historically under-represented groups in science.

Mr. Abhishek Chari is a freelance science communicator, engaged in creating articles in written and audio formats. As a contributing editor & co-founder at **IndSciComm**, he tries to showcase interesting ways in which all our lives are inextricably linked to science. Earlier, he worked in MIT as a science writer & development assistant to support research on Neuroscience.

Date & Time: August 28, 2019, 12 noon-1:00 PMs; Venue: Conference Hall

Patron

Dr. Ravi Toteja
Principal, ANDC

Convenor

Dr. Urmi Bajpai
Teacher-In-Charge

Organizing Committee

Dr. Satendra Singh
Dr. Namita Singh
Ms. Rimpay Kaur
Mr. Prashant Pradhan



DEPARTMENT OF BIOMEDICAL SCIENCE
ACHARYA NARENDRA DEV COLLEGE
(University of Delhi, New Delhi)

Page No. 218



(Under the Aegis of DBT-STAR College Scheme)

Presents



BMS 'Alumni' Lecture Series

by

Dr. Pawan Mehrotra

Batch: (BMS: 2002-2005)

Founder, Aarna Biomedical Products

Transition from a “Cancer Researcher” to an “Engineer” and finally a “Manufacturer-Salesman”

Dr. Mehrotra's team has successfully developed & launched their nascent social enterprise's first two products – Sampooriti and Poorti, which aims at post-surgical rehabilitation of breast cancer patients supported by BIRAC, Tata Trusts, IIT-Kanpur and Translational Health Science and Technology Institute – DBT. He has the unique experience of having publications, patents and products to his credit in the field of oncology.

Date & Time: August 14, 2019, 10:00 AM onwards; Venue: Seminar Hall

Patron

Dr. Ravi Toteja
Principal, ANDC

Convenor

Dr. Urmi Bajpai
Teacher-In-Charge

Organizing Committee

Dr. Satendra Singh
Dr. Namita Singh
Ms. Rimpay Kaur
Mr. Prashant Pradhan



DEPARTMENT OF BIOMEDICAL SCIENCE
ACHARYA NARENDRA DEV COLLEGE
(University of Delhi, New Delhi)

Page No. 219



(Under the Aegis of DBT-STAR College Scheme)

Presents



CATHEXIS'19 *Inaugural Lecture* **by**

Dr. Sidharth Chopra

Senior Scientist,

Division of Microbiology,

CSIR-Central Drug Research Institute (CDRI)- Lucknow

“Drug Discovery Against MDR Microbes”

Antimicrobial resistance has been internationally recognized as a significant threat to healthcare systems worldwide. The talk will highlight the core issues such as; drug discovery against drug-resistant microbes is an extremely interdependent, interconnected battle involving multiple expertise's against a very intelligent, ruthless & adaptable adversary.

Date & Time: August 14, 2019, 10:00 AM onwards; Venue: Seminar Hall

Patron

Dr. Ravi Toteja
Principal, ANDC

Convenor

Dr. Urmi Bajpai
Teacher-In-Charge

Organizing Committee

Dr. Satendra Singh
Dr. Namita Singh
Ms. Rimpay Kaur
Mr. Prashant Pradhan



ACHARYA NARENDRA DEV COLLEGE

(University Of Delhi)



NAAC Accreditation Grade 'A' | NIRF 2020 All India Ranking 18

ECO Club 'Paritantra'

*Reduce the noise pollution before it
reduces your hearing capacity*

On the occasion of ' THORYVOS '

We invite you to be a part of

SYMPOSIUM

Topic : Noise pollution a cannonade on living
organisms! How to take the edge off it?

Date : 10th April 2021 , Saturday

Time : 3 : 00 PM

Venue : Google Meet

Register here : <https://forms.gle/7XETmoknG7ebGsXG9>

SUYASH
9984471012

AMIT
7982380112

P R E S E N T S

HYBRID MOBILE APP DEV WITH FLUTTER



Duration : 5 Days, 2 Hour session everyday

Dates : 13th - 17th July, 2020

Time : 12.30 PM to 2.30 PM

Tool : Google Meet

Fees : Rs 500/- Non ANDC student

Rs 300/- ANDC students and ANDC SPIE members

What will you learn

Flutter Architecture

Flutter & DART Setup

Building Flutter First App

Run App On Real Device & Emulator

Deep Dive of Dart Language

Stateful And Stateless Widgets

Basic Widgets

Material Widgets

Layouts In Flutter

Scaffold Widgets

Flutter Navigators And Routes

Event Handling

State Management

Async Coding in Flutter

OAuth in FireBase

Integrate Flutter with FireBase

Requirements

- Laptop/Desktop
- Knowledge of any programming language
- Internet connectivity

Limited seats Available

!!Register Now!!

Scan to register



Projects

- MUSIC APP
- TODO APP

Co-ordinators

Dr. Amit Garg (Faculty Advisor)

Dr. Ravneet Kaur

Student - coordinator

Aman Tyagi (President)

7011433407

Industry Partner



SPIE Student Chapter University of Delhi at
Acharya Narendra Dev College
and
Department of Electronics
under DBT Star College
presents



DATA SCIENCE WITH PYTHON

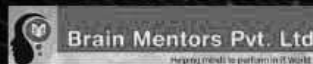
A five day workshop with a two hours session each day

The participants will get to learn about

- Data Analysis on COVID -19 and IPL
- Face Detection and Recognition
- Face Mask Detection using Machine Learning

<https://www.spieandc.org/pythonworkshop>

INDUSTRY PARTNER:



E-certificates will be provided after the successful completion of the workshop.

Teacher Coodinators:
Dr. Amit Garg
Dr. Ravneet Kaur

Student Coodinator :
Mr. Aman Tyagi
7011433407

Starts on
March
3

4:00 p.m. to
6:00 p.m.





Ministry of Education
Government of India



HANSRAJ COLLEGE

(NAAC A+ CGPA 3.62, NIRF Rank #9)

University of Delhi

Mahatma Hansraj Marg, Malka Ganj, Delhi-110007

TWO WEEK INTERDISCIPLINARY ONLINE FACULTY DEVELOPMENT PROGRAMME

on

“From Research to Publications”

April 5-17, 2021

Live Sessions : 1:30 p.m. - 5:30 p.m.

Organised by

Department of Commerce

ACHARYA NARENDRA DEV COLLEGE

Accredited 'A' grade by NAAC with a score of 3.31
University of Delhi

Govindpuri, Kalkaji, New Delhi-110019

in collaboration with

Mahatma Hansraj Faculty Development Centre

(A Centre of Ministry of Education, Govt. of India under PMMMNMTT Scheme)

ABOUT PMMMNMTT

The Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching emphasizes the need to change the role and working of a teacher from mere disseminator of information and knowledge to the one who advances frontiers of existing knowledge by actively developing and creating new insights into diverse social and physical phenomena.



@hrcduofficial



Register by
scanning QR code

Last Date:

1st April, 2021



www.mhrfdc.in



fdp.hrc@gmail.com

ABOUT HANSRAJ COLLEGE



Hansraj college is one of the largest constituent colleges of University of Delhi and has been ranked as one of the top five colleges for science, arts and commerce several times in the last decade. The faculty and students of the college have contributed immensely in the field of academics, sports and cultural activities. The college faculty is dedicated towards growth and development of the institution academically and administratively to constantly thrive for excellence. Hansarians have been placed in diverse professions and services worldwide and are bringing fame and laurels to the institution.

ABOUT ACHARYA NARENDRA DEV COLLEGE



Acharya Narendra Dev College (ANDC), a constituent college of University of Delhi has come a long way since its inception in 1991. The college began its journey in Nov, 1991 with a handful of students in two undergraduate courses, B.Com. (H) and B.Sc. (G) Group 'A' with Chemistry. The College currently offers nine undergraduate honours courses, two postgraduate courses, four certificate and three diploma courses in foreign languages and one certificate course in Bioinformatics and In-silico Drug Discovery.

The college is today crowned with significant achievements that have resulted in it being listed among the top 10 science colleges in Delhi by India today survey 2010. The College won the Award of Good Practices at 'Antardhvani', the mega Festival of the University of Delhi 2013 and the NAAC Accreditation of Grade A in the year 2017. Two flagship schemes namely Paramarsh and Unnat Bharat Abhiyan of Government of India have been sanctioned to the College.

AND College has been recognized as a centre of learning for all round development of students and teachers. New extra-mural funded projects from SERB-DST, DST and ICMR have continued to flourish in research laboratories of faculty within the college. Many faculty members are recognized Ph.D supervisors.

Faculty members have contributed chapters in books, uploaded educational e-content, enriched school/college education, and won many awards, delivered invited talks, organized and participated in conferences/workshops/training programs and acted as editors, reviewers, and members of advisory boards. Some of the faculty members have also got patents granted in their names.

TOPICS TO BE COVERED

- Understanding Qualitative Research
- Types of Research
- Writing Research proposal
- Availability of resources in Library
- Research Design and Hypothesis testing
- Sources and collection of Data
- Sampling criteria
- How to construct questionnaire and conduct interviews
- Data handling
- Data Analysis Using R
- Tools & Techniques of Analysis
- Analysis and interpretation of the data
- Presenting Research Insights and Findings
- Article and Research Paper writing
- Writing Research proposal for funding from different agencies
- Ethics in Research and Publications
- Plagiarism and other related aspects
- How to write research paper in Scopus listed Journals
- Paper review and Post submission concerns
- Role of Mentor in Research

PROGRAMME OVERVIEW

Research has always been the backbone of academics. However with the ever-changing environment and policies like New Education Policy (NEP) 2020, it has become imperative to bring research as our focal point. An important aspect of research is its publication. It is believed that an academician becomes a scholar through publications.

The research and publication have a very close relationship. They are complementary to each other. Research has a very little value unless it is published. The dynamic & competitive environment along with continuous advancement in the field of academic profession, have forced all of us to understand the process of research and ethical ways to get it published. This FDP is designed to cater the needs of academicians, research scholars and industry professionals for a sound understanding of research, publications, plagiarism checks and post submission concerns.

OBJECTIVES OF THE PROGRAMME

- To introduce the concept and process of research to the participants.
- To understand various tools and techniques of analysis using SPSS and R.
- To understand the difference between research articles, case studies etc.
- To understand how to write research papers in SCOPUS listed journals.
- To bring clarity about research ethics, including plagiarism.
- To address post submission concerns.

RESOURCE PERSONS



Prof. R. K. Singh
Head and Dean, Faculty of Commerce & Business,
University of Delhi



Prof. H. K. Dangi
Professor - Department of Commerce, DSE
University of Delhi



Prof. A. Venkat Raman
Professor - FMS
University of Delhi



Dr. Rajesh Singh
Librarian , University of Delhi



Prof. K. V. Bhanu Murthy
Vice-Chairman Centre for e-Learning and GAD
Teaching Learning Centre, S.G.T.B. Khalsa College,
Delhi University



Mr. Sandeep Vodwal
Assistant Professor
Keshav Mahavidyalaya



Dr. Prabhat Mittal
Associate Professor- Satyawati College (Even.)
Post-Doctoral Fellow, Industrial and Systems
Engineering, University of Minnesota, USA



Prof. Kavita Sharma
Professor - Department of Commerce, DSE



Dr. Gurpreet Singh Tuteja
Associate Professor
Zakir Husain Delhi College, University of Delhi



Prof. C. P. Gupta
Professor - Department of Financial Studies,
South Campus, University of Delhi



Dr. Neelam Rani
Associate Professor
IIM Shilong



Prof. Vijay Kumar Shrotryia
Professor - Department of Commerce, DSE
University of Delhi



Prof. Ramesh C. Gaur
Dean & Director (Library & Information)/
Head- Kalanidhi Division



Prof. Sanjeev Singh
Professor at IIC, UDSC



Prof. Amit Kumar Singh
Professor - Department of Commerce, DSE
University of Delhi



Dr. Mukesh Kumar
Deputy Dean- Research Council



Prof. Ashutosh Bhardwaj
OSD - Institute of Eminence, University of Delhi

REGISTRATION DETAILS

Interested participants are requested to follow the steps mentioned below in order to register for the FDP:

- Participants are required to pay the registration fee of **Rs. 1000** via **NEFT/IMPS/UPI** to the following account:

Account:	Principal, Hansraj College, FDC
Bank:	Canara Bank, Hansraj College, Delhi
Type of Account:	Savings
Account number:	2848101019873
IFSC:	CNRB0002848

- Pre-registration to the programme is through **online** mode only.
- Limited seats are available for this programme on a first-come, first-served basis.
- * **NOTE: Fee is Non-Refundable**
Participants are required to fill the registration form using the following link.
(Please ensure that you have payment proof before filling up registration form)
- Registration link: <https://bit.ly/3d0v9Pi>
- The **last date** for registration is **April 1, 2021**.
- **Participants** will be informed by **April 2, 2021**.
- Attendance norms are strict. Participants are required to clear the assessment component for getting the **e-certificates**.
- Further details will be communicated to the selected participants.
- **ELIGIBILITY:** The programme is **interdisciplinary** and is open to all the interested participants. All faculty members (regular/ ad-hoc/ temporary/ guest) and Research Scholars from any university/college are eligible to participate.

ORGANIZING TEAM

MHRFDC TEAM

Prof. (Dr.) Rama

Principal, Hansraj College &
Chairperson, MHRFDC

Dr. Jyoti Bhola

Coordinator, MHRFDC

Mr. Ashutosh Yadav

Dy. Coordinator, MHRFDC

ACHARYA NARENDRA DEV COLLEGE TEAM

CHIEF PATRON

Prof. Ravi Toteja

Offg. Principal, ANDC

Dr. Surinder Kaur

Convener

Associate Professor, Department of Commerce

Dr. Shalu Mahajan

Coordinator

Assistant Professor & TIC, Department of Commerce

Members, Organising Committee

Dr. Jitender Goel

Assistant Professor, Department of Commerce

CA Yask Sain

Assistant Professor, Department of Commerce



Acharya Narendra Dev College (University of Delhi)



UBA @ ANDC
in coordination with
Entrepreneurship cell @ ANDC

ORGANIZES
A TWO DAY SKILL DEVELOPMENT WORKSHOP - 1

March 1 - 2, 2021

Time : 10 am - 12 pm

Venue : ANDC Campus

Dr.Pooja Bhagat
(UBA Coordinator)

Dr.Ravi Toteja
(Principal)

Mr.Sanjay Vohra
(Entrepreneurship Cell
Coordinator)



Acharya Narendra Dev College

University of Delhi

(All India NIRF 2020 Ranking-18, NAAC Score-3.31)

Under the aegis of DBT-STAR College Scheme

Hands-on Workshop on ADVANCED BIOINFORMATICS

Date: March 1-3, 2021

Schedule

Time	Day 1 (March 1, 2021)
5 P.M. to 6 P.M.	Talk on "A Step-by-Step Guide of Data Mining from Literature to Pathways.
Time	Day 2 and 3 (March 2-3, 2021)
5 P.M. to 7 P.M.	Hands-on Workshop on: <ul style="list-style-type: none"> • Extracting gene list using pubmed.mineR • Gene enrichment analysis • Functional interactive network • Biological interpretation using Gene cards and Uniprot

Instructions

- All participants must have their own computer/laptop
- Install R, R studio, pubmed.mineR in the sequence in your laptop
- For R: <https://cran.cnr.berkeley.edu/>
<https://cran.r-project.org/>
- For R studio: <https://rstudio.com/products/rstudio/download/>
- For pubmed.mineR
 - install pubmed.mineR package from R or Rstudio console using the following command:
 - `install.packages("pubmed.mineR")# install from RStudio console`



Dr Srinivasan Ramachandran

Senior Principal Scientist, CSIR-IGIB

Patron

Dr Ravi Toteja
Officiating Principal

Convenor

Dr Seema Makhija
Department of Zoology

Dr Archana Pandey
Department of Biomedical Science

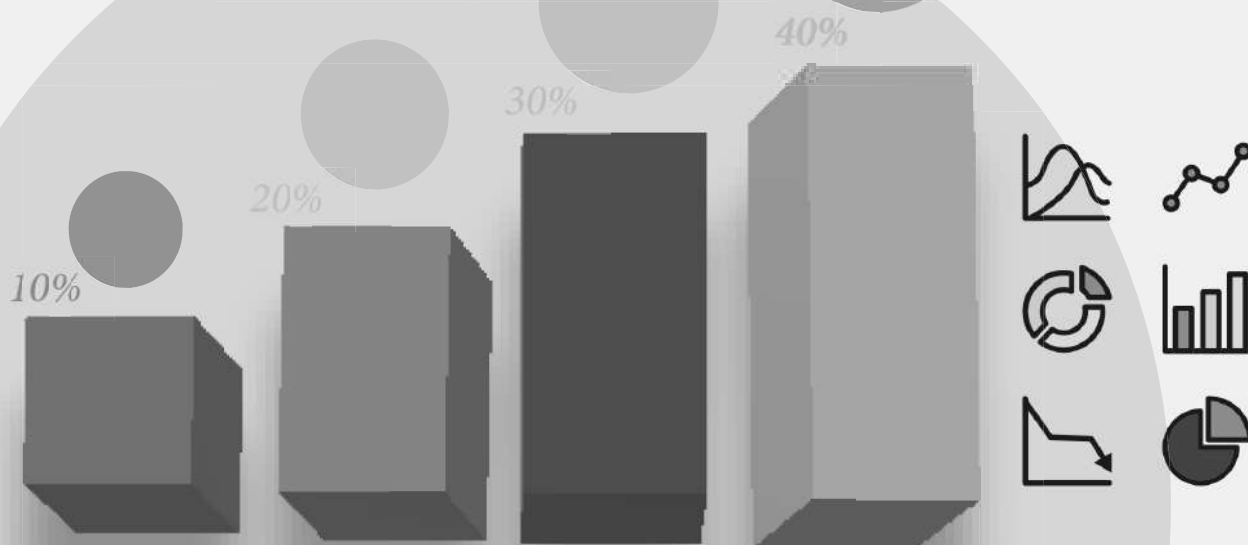
Dr Rashmi Sharma
Department of Botany

April
6-19
2021

Two-week national workshop (online)

Tools & Techniques in Statistical Analysis

under the aegis of DBT STAR College Scheme



Link for Registration: <https://forms.gle/J9rURdrGbn4fhwoCA>

Chief Guest

Professor Balaram Pani

Dean of Colleges, University of Delhi

Chief Patron

Professor S. M. Anwar Alam

Chairman, Governing Body, ANDC

Convenors

Dr Vatsla Kohli

Department of Mathematics

Dr Seema Makhija

Department of Zoology

Dr K R Meena

Department of Mathematics

Patron

Dr Ravi Toteja

Officiating Principal

Co-Convenors

Dr Archana Pandey

Department of Biomedical Science

Dr Rashmi Sharma

Department of Botany



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NIRF 2020 Ranking-18

<https://www.andcollege.du.ac.in/> | +91-(0)11-26294540

Two-week national workshop (online)

Tools & Techniques in Statistical Analysis

under the aegis of DBT STAR College Scheme

Chief Guest

Professor Balaram Pani

Dean of Colleges, University of Delhi

Members of Advisory Board

- Dr Garima Gupta, *Scientist-E, DBT, India*
- Professor C. S. Lalitha, *Head and Dean, Faculty of Mathematical Sciences, University of Delhi*
- Professor Umesh Rai, *Head, Department of Zoology, University of Delhi*
- Professor S. B. Babbar, *Head, Department of Botany, University of Delhi*
- Professor Shobha Bagai, *Cluster Innovation Centre, University of Delhi.*
- Dr Anjan, *Associate Professor & Head, Deptt. Natural Resources Management and Geoinformatics, Khallikote University.*
- Dr Madhu Chopra, *Assistant Professor, Dr B.R. Ambedkar Center for Biomedical Research (ACBR)*
- Dr Abdullah A. Ansari, *Assistant Professor, International Center for Advanced Interdisciplinary Research (ICAIR)*
- Dr Manish Khandelwal, *Assistant Professor, Department of Mathematics, IGNTU Amarkantak*
- Dr Kamlesh Jangid, *Assistant Professor, Department of Mathematics, Rajasthan Technical University*

Scan QR Code for
Registration



April
6-19, 2021

Speakers



Professor T.R. Rao
IISER, Berhampur



Professor Ram Kumar
Central University of South Bihar



Dr Aditi Gangopadhyay
Associate Professor
Department of Mathematics
IIT Roorkee



Dr Mohd. Arshad
Assistant Professor
Department of Mathematics
IIT Indore



Dr Amit Kumar Misra
Assistant Professor
Department of Statistics
Babasaheb Bhimrao Ambedkar
University, Lucknow



Dr Akanksha Gupta
Assistant Professor
Department of Statistics
Institute of Science, BHU



Dr Qazi Azhad Jamal
Assistant Professor,
Department of Mathematics &
Statistics
Banasthali Vidyapith



Dr K.R. Meena
Assistant Professor
Department of Mathematics
Acharya Narendra Dev College



Acharya Narendra Dev College

University of Delhi

NIRF 2020 Ranking-18

<https://www.andcollege.du.ac.in/> | +91-(0)11-26294540



Workshop Schedule

April 6	3:30 pm-3:45 pm Welcome Address Dr Ravi Toteja Officialtng Principal	3:45 pm-4:00 pm Inaugural Address Professor Balaram Pani, Chief Guest Professor Anwar Alam, Chief Patron	4:00 pm-5:00 pm Biostatistics: General Perspective Professor T.R. Rao	5:00 pm-6:00 pm Basics of Statistics, Measurements Dr Amit Kumar Misra
April 7	4:00 pm-5:00 pm Probability Theory in Information Security Dr Aditi Gangopadhyay		5:00 pm-6:00 pm Basics of Statistics, Measurements Dr Amit Kumar Misra	
April 8	4:00 pm-5:00 pm Normal Distribution Professor T.R. Rao		5:00 pm-6:00 pm Collection of data, Classification of data, Sampling methods Dr M. Arshad	
April 9	4:00 pm-6:00 pm Collection and classification of data, Sampling methods. Measure of central Tendency Dr M. Arshad			
April 10	4:00 pm-5:00 pm Measure of Dispersion Dr Akanksha Gupta		5:00 pm-6:00 pm Basics of R-software Dr Qazi Azhad Jamal	
April 11	OFF DAY			
April 12	4:00 pm-5:00 pm Skewness and Kurtosis Dr Akanksha Gupta		5:00 pm-6:00 pm Correlation and regression analysis, similarities and dissimilarities Dr Qazi Azhad Jamal	
April 13	4:00 pm-5:00 pm Correlation and regression analysis, similarities and dissimilarities Dr Qazi Azhad Jamal		5:00 pm-6:00 pm Standard probability distributions, Estimation procedures-I Dr M. Arshad	
April 14	4:00 pm-5:00 pm Standard probability distributions, Estimation procedures-I Dr M. Arshad		5:00 pm-6:00 pm Estimation procedures-II Dr K.R. Meena	
April 15	4:00 pm-5:00 pm Hypothesis Testing Professor T.R. Rao		5:00 pm-6:00 pm Testing of Hypothesis-I Dr Amit Kumar Misra	
April 16	4:00 pm-6:00 pm Testing of Hypothesis-II Dr Amit Kumar Misra			
April 17	4:00 pm-5:00 pm Non-parametric procedures Dr Akanksha Gupta		5:00 pm-6:00 pm Simulation and data analysis using R-software Dr Qazi Azhad Jamal	
April 18	OFF DAY			
April 19	4:00 pm-6:00 pm Sampling techniques Professor Ram Kumar		6:00 pm-7:00 pm Valedictory Session	

Acharya Narendra Dev College
University of Delhi
presents

RBPT BASED WORKSHOP

ON

BIOINFORMATICS

FOR UNDERGRADUATE STUDENTS
SPEAKER AND RESOURCE PERSON
FROM IITD

Link to register: <https://forms.gle/1YKazRrvv/uCnvcv8>

DATES: 9-13 JANUARY 2021

**DR ANITA NARANG
DR SARITA KUMAR
TEACHER-IN-CHARGE**

**DR RAVI TOTEJA
PRINCIPAL**

**DR RASHMI SHARMA
DR SEEMA MAKHIJA
CONVENORS**

For queries email:
rashmisharma@andc.du.ac.in



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Accredited Grade 'A' | Mentor under UGC *PARAMARSH* Scheme

Internal Quality Assurance Cell (IQAC)

presents

E-Workshop on

TAX REGIME: Old vs New

Speaker

CA Chandan Bhatia



Date: February 16/2021, Tuesday

Time: 11A.M.

Dr Sunita Jetly
Event organiser &
Member, IQAC

Dr Yasheshwar
Coordinator, IQAC

Dr Ravi Toteja
Principal, ANDC

Note: Google link will be shared to teaching and support staff of the college

ACHARYA NARENDRA DEV COLLEGE
DEPARTMENT OF BIOMEDICAL SCIENCE

Under the aegis of IQAC & DBT STAR College Scheme

ORGANIZING

Python Coding Workshop for Biologists



RESOURCE PERSON : ALOK ANAND & SHRUTI GUPTA

PhD Scholars

School of Computational & Integrative Science

Jawaharlal Nehru University

20 HOUR TUTORIAL

Every Sat-Sun, November 2020



Acharya Narendra Dev College
(University of Delhi)
NAAC Accreditation Grade 'A' | NTRF 2020 AIR-18

FOSS Club,
Department of Computer Science

**One Day Workshop
on
Google Class Room**

Under the Aegis of DBT Star Scheme,
Computer Science Department

Date: 27th November, 2020
Time: 1:00 PM to 4:00 PM

Dr. Harita Ahuja
Star Department
Coordinator

Dr. Sharanjit Kaur
Convener

Ms. Gunjan Rani
Co-Convener

Dr. Sunita Narang
TIC, Dept of CS

<https://meet.google.com/lua-yyma-rxb>

Dr. Ravi Teja
(Patron, Officiating Principal)



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' | NIRF 2020 ALL INDIA RANKING - 18



DEPARTMENT OF COMMERCE BODHINI - ACADEMIC EVENTS & RESEARCH COMMITTEE ORGANISES

WORKSHOP ON E-FILING OF ITR 1



CA YASK SAIN

ASSISTANT PROFESSOR, ANDC
CA (BANKING INDUSTRY
EXPERIENCE, HSBC), NET-JRF, M.COM
ALUMNA DSE, B.COM (HONS.)



NOVEMBER 10, 2020
10:30 AM ONWARDS
ON GOOGLE MEET

*E - CERTIFICATES WILL BE
GIVEN TO ALL PARTICIPANTS.
(ONCE THEY FILL FEEDBACK FORM)*



DR. SURINDER KAUR

ASSOCIATE PROFESSOR, ANDC
GOLD MEDALIST, M. COM.
DELHI UNIVERSITY TOPPER, ALUMNA DSE
PHD, FACULTY OF MANAGEMENT STUDIES
RECIPIENT OF MAMTA GUPTA MEMORIAL
SWARN PADAK
PROF. JAI NARAYAN VAISH PURUSKAR

**STILL REQUEST SOMEONE TO FILL YOUR INCOME TAX RETURN ?
DON'T WORRY, IT'S TIME TO BE INDEPENDENT!**

DR. SANDEEP KUMAR GOEL
CONVENOR

DR. JITENDER GOEL
CO-CONVENOR

DR. SHALU MAHAJAN
TEACHER INCHARGE

DR. RAVI TOTEJA
OFFICIATING PRINCIPAL

STUDENT COORDINATOR : TEESHA RAUTELA - 9773732492 | ADITYA PRAKASH - 9717334948



Acharya Narendra Dev College

University of Delhi

NIRF 2020 Ranking - 18

Department of Electronics under
DBT STAR COLLEGE

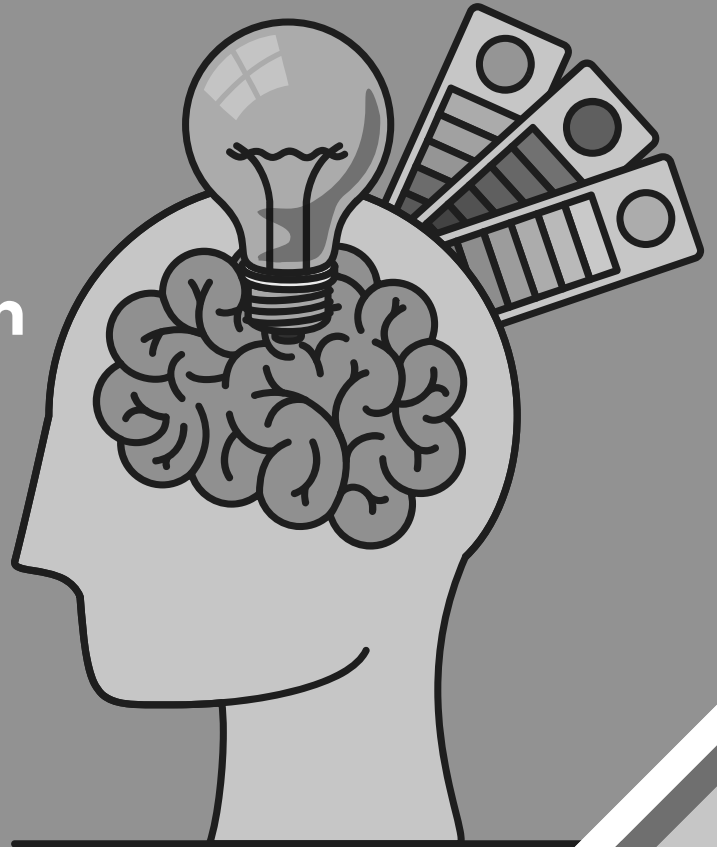


Page No. 238

Creative Thinking and Entrepreneurial Skills

Time : 4:00 – 5:00 pm

Date : 23 June, 2021



Dr. Ravinder Kaur
Associate Professor, MoE IIC Ambassador
Department of Electronics
Deen Dayal Upadhyay College



Google meet

<https://meet.google.com/znvz-hu28-wme>



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' | NIRF 2020 ALL INDIA RANKING -18

DEPARTMENT OF COMMERCE

BODHINI - ACADEMIC EVENTS AND RESEARCH COMMITTEE

SERIES: " IN CONVERSATION WITH OUR ALUMNI "

" Early Investments – Secured Future "



SPEAKER
MR. DHIRAJ KALRA

Sr. Director - Operations, Paisabazaar
ANDC Alumni - Batch 1996

Concerned About Future



Join The Webinar

Venue : Google Meet

Date : 28th January 2021

Time : 11 O'clock

DR. SURINDER KAUR
CONVENOR

MS. SANGEETA RELAN
CO-CONVENOR

DR. SHALU MAHAJAN
TEACHER INCHARGE

DR. RAVI TOTEJA
OFFICIATING PRINCIPAL

STUDENT COORDINATORS : Ankit Kumar (Vice President) - 9717546728 | Niharika Gupta (Secretary) - 8447103973

ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31

NIRF RANKING-18 | DBT STAR COLLEGE

Department of Commerce

Presents

An Overview of Indian Contract Act, 1872

Ms. Sushma Arora

10 AM ONWARDS



Dr. Shalu Mahajan

Dr. Jitender Goel

Faculty

(Department of Commerce)

Date:- January 16,2021

Venue:- Seminar Hall



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' | NIRF 2020 ALL INDIA RANKING -18

DEPARTMENT OF COMMERCE

BODHINI - ACADEMIC EVENTS AND RESEARCH COMMITTEE

ORGANISES A WEBINAR ON

HOW TO PUBLISH RESEARCH PAPER IN SCOPUS / INDEXED JOURNALS ?



INAUGURAL ADDRESS

PROFESSOR R. K. SINGH

HEAD- DEPARTMENT OF COMMERCE
DEAN - FACULTY OF COMMERCE AND BUSINESS
DELHI SCHOOL OF ECONOMICS,
UNIVERSITY OF DELHI



DECEMBER 12, 2020
11 AM - 12:30 PM
ON GOOGLE MEET

Research
Paper

REGISTRATION FEES ₹100/-
TO BE PAID VIA Paytm ON
9990062829 - YASK SAIN



RESOURCE PERSON
DR. AMIT KUMAR SINGH

ASSOCIATE PROFESSOR,
DEPT. OF COMMERCE,
DELHI SCHOOL OF ECONOMICS,
UNIVERSITY OF DELHI

LIMITED SEATS
REGISTRATION ON
FIRST CUM FIRST SERVE BASIS

E-CERTIFICATES WILL BE GIVEN TO ALL THE PATICIPANTS
(ONCE THEY FILL FEEDBACK FORM)

DR. SANDEEP KUMAR GOEL
CONVENOR

DR. SURINDER KAUR
CO-CONVENOR

DR. SHALU MAHAJAN
TEACHER INCHARGE

DR. RAVI TOTEJA
OFFICIATING PRINCIPAL

STUDENT COORDINATOR : MANSI MALPANI - 8989807664 | PAYAL KUMARI - 7982326638



**Acharya Narendra Dev College
University of Delhi**

NAAC Accreditation Grade 'A' | NIRF All India Ranking 2020 - 18th

Eco-Club '*Paritantra*'

In association with

Bombay Natural History Society, India

Organizes

A National Webinar on

**"Flying Jewels"
{Butterflies of India}**

Let's take a peek into the intimate world of these 'Winged Jewels'!
Learn about their lives, defense mechanisms & survival and on how to
attract them to your own backyards!



Resource Person
Mr. Ishtiyak Ahamad
Education Officer
Conservation Education Center
Bombay Natural History Society, Delhi

Date - 18th September, 2020

Time - 10:00 AM

Register@

<https://forms.gle/7otbtBtS9YbZw7Uy6>

For Any Queries -

**Manish Soni (91136-95097)
Bisakha Das (63701-29675)**



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)

NAAC Accreditation Grade 'A' | NIRF 2020 All India Ranking-18



वणिज्या

The Commerce Society of ANDC

is organising a Webinar on

"INSURANCE FOR THE YOUTH"

Speaker



MR. RAJESH RELAN

**CHAIRMAN (ECOMONEY INSURANCE),
FORMER MD AND CEO OF PNB METLIFE
INDIA AND WAS ASSOCIATED WITH
AVIVA AND OLD MUTUAL PLC, HAS 30
YEARS OF EXPERIENCE IN FINANCIAL
SERVICES THAT INCLUDES TWO DECADES
OF EXPERIENCE IN INDIAN AND
INTERNATIONAL INSURANCE SECTORS.**



*E-certificates will be
given to all participants
(once they fill the feedback form)*

Schedule

- 6TH NOVEMBER, 2020
- FRIDAY, 11.30 AM
- ON GOOGLE MEET

PATRON

Dr. Ravi Toteja
(Officiating Principal)

TEACHER INCHARGE

Dr. Shalu Mahajan

CONVENOR

Ms. Sangeeta Relan

CO-CONVENER

Dr. Jitender Goel

STUDENT COORDINATOR- Tanya Gupta and Vaishali Bharadwaj



vanijya

The Commerce Society of ANDC

is organising Webinar on

TOP TRENDS DRIVING DIGITAL MARKETING STRATEGY

Speaker



DR. RUCHI GUPTA

ASST. PROF.(SBSC),SRCC
ALUMNA, AUTHOR,KEYNOTE
SPEAKER AT OXFORD AND
CAMBRIDGE, RECIPIENT OF
ACADEMIC EXCELLENCE AWARD
2017

*E-certificates will be
given to all participants*

Schedule

- 9TH OCTOBER,2020
- FRIDAY, 11.30 AM
- ON GOOGLE MEET

PATRON

Dr. Ravi Toteja
(Officiating Principal)

CONVENOR

Dr. Shalu Mahajan
(Teacher-in-charge
Dept. of Commerce)

CO-CONVENOR

Dr. Jitender Goel
(Dept. of Commerce)

STUDENT COORDINATOR

TARUSH BAJRA
TEESHA KAUTELA

A WEBINAR



Acharya Narendra Dev College
(University of Delhi)

Vanijsya- The Commerce Society
organises webinar on



'Stop Worrying and Start Living and Earning':
Career vs Job: Road Map

on 27 August 2020 via Google Meet at 11:30a.m



Speaker:-

C.A Pankaj Goel

FINANCIAL MANAGEMENT SPECIALIST
FOR ADB FUNDER ASSIGNMENT FOR
TAMIL NADU AND TEAM LEADER FOR
STATE OF JHARKHAND FOR REVENUE
AUGMENTATION

*E- Certificates will be given to all the Participants
For registration Please Visit:

<https://forms.gle/3m3m3m3m3m3m3m3m>
Registration Open till August 24, 2020

Patron:
Dr. Ravi Toteja
Officiating Principal

Convenor:
Dr. Shalu Mahajan
Teacher-in-charge
Department of Commerce

Student Coordinators:
Pratishtha Bisht
Vansh Aggarwal



Acharya Narendra Dev College (University of Delhi)



Accredited 'A' Grade by NAAC with a score of 3.31
NIRF ranking 2020 - 18th

Department of Botany

Organizes

Dr. Saumya Saxena Memorial Lecture



**Matrix of Multicellular Life : How cell
adhesion regulates cell function !**

Speaker : Dr. Balasubramanian Nagaraj, IISER Pune

Date & Time - At 6:00 PM , 16 July 2020

**Link for Registration - [https://forms.gle/f4wMt7
FNhGQNDsjB8](https://forms.gle/f4wMt7FNhGQNDsjB8)**

Last date to register - 14 July,2020

**Please mail your queries to
rashmisharma@andc.du.ac.in**

**Dr. Rashmi Sharma
(Convenor)**

**Dr. Ravi Toteja
(Patron)**

**Dr. Anita Narang
(Teacher In-charge)**



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Accreditation Grade 'A' | NIRF - 2020 All India Ranking 18th

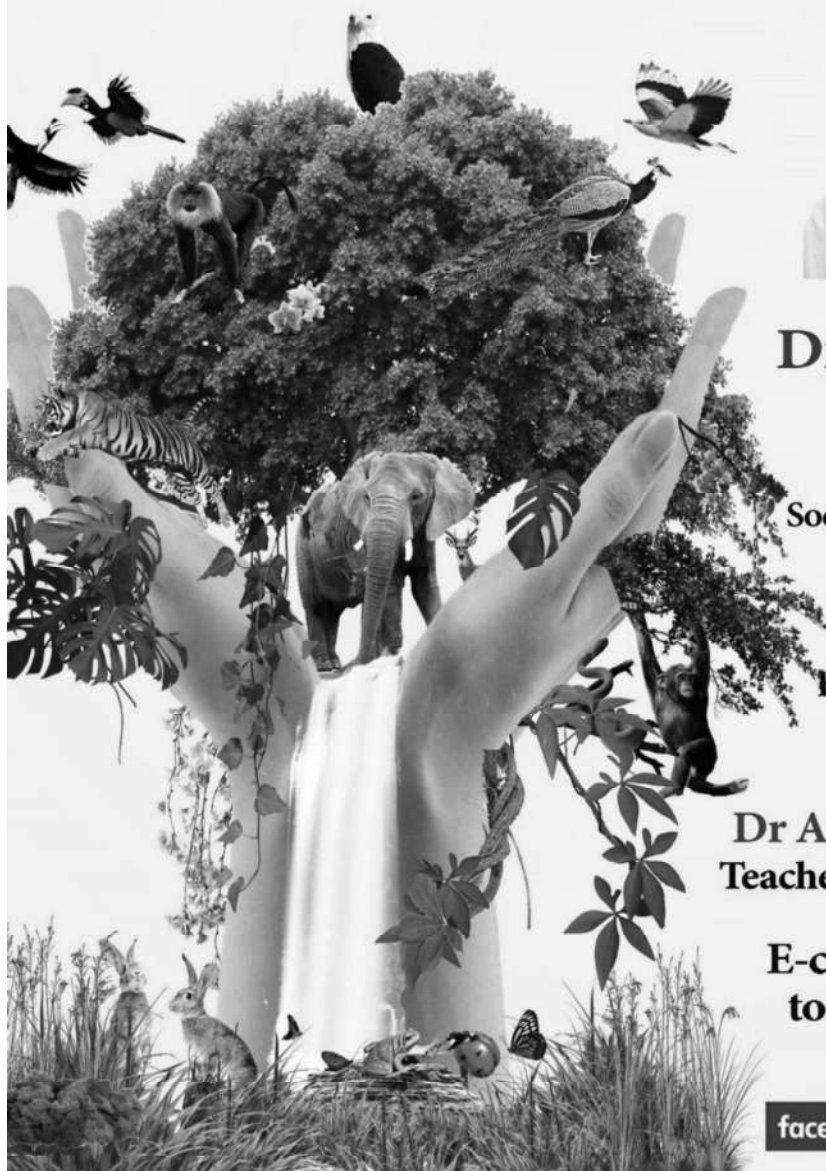
“Tarumitra” the Botanical Society
under the aegis of DBT STAR College Scheme

presents

Inaugural Lecture on

“HUMANS FOR NATURE”

on October 15, 2020 at 03:30 p.m. by



Padma Shri

Dr Prakash Baba Amte

&

Dr Mandakini Amte

Social Workers, Ramon Magsaysay Awardees
and Founders of Lok Biradari Prakalp

Register at

<https://forms.gle/SapseX28cAA2qbwVA>

Dr Anita Narang **Dr Ravi Toteja**
Teacher -in - charge Officiating Principal

**E-certificates will be provided
to all registered participants**

facebook LIVE

YouTube Live





Acharya Narendra Dev College

University of Delhi



The Botanical Society
of ANDC

NIRF 2020 Ranking - 18 | "Star College Status" by DBT

TARUMITRA

The Botanical Society of ANDC

presents

Dr Saumya Memorial Lecture



Arbuscular mycorrhizal fungi : true friends of plants

by

Professor Rupam Kapoor

Department of Botany, University of Delhi

Meeting Link: <https://meet.google.com/yxx-cqzt-twg>



Dr Ravi Toteja
Patron

Dr Anupama Shukla
Convenor

Dr Anita Narang
Teacher-in-charge

Join us
March
23
2021
06:00 p.m.



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Grade "A" | DBT STAR College | All India NIRF Ranking 2020 -18

Tarumitra- The Botanical Society

Under the aegis of DBT STAR College Scheme

invites you for a talk on

Cultivation of edible mushroom : Pleurotus species



Guest Speaker
Prof. Rajni Gupta
Department of Botany
Kirori Mal College,
University of Delhi

Thursday, June 17, 2021

11:00 a.m.



Google Meet Link: <https://meet.google.com/wio-geue-zxm>

Prof. Ravi Toteja
Patron

Dr Anita Narang
Teacher - in - charge

Dr Anupama Shukla
Convenor





ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Grade "A" | DBT STAR College | All India NIRF Ranking 2020 -18

TARUMITRA - The Botanical Society

Under the aegis of DBT STAR College Scheme

invites you for a talk on

From mycorrhizosphere to rhizosphere microbiome: The beautiful journey



JUNE 23, 2021
WEDNESDAY; 11:00 a.m.



Guest Speaker
Prof. Manju M. Gupta
Department of Botany
Sri Aurobindo College
University of Delhi



Google Meet Link: <https://meet.google.com/bfy-fhde-cha>

Prof. Ravi Toteja
Patron

Dr Anita Narang
Teacher - in - charge

Dr Anupama Shukla
Convenor



ACHARYA NARENDRA DEV COLLEGE



@ANDCollege_DU

<https://www.andcollege.du.ac.in/>

ACHARYA NARENDRA DEV COLLEGE

organizes a
WEBINAR

under the aegis of CCGN-Funded Project

OPEN LICENSING AND ONLINE CONTENT



Registration Link:

<https://forms.gle/ZEBypnKqcAriM72a6>

DATE: SEPTEMBER 25, 2020
DAY: FRIDAY **TIME: 11.00 AM**



SPEAKER



Prof. Savithri Singh

Country Lead - Creative Commons
Principal (Retd.)
Acharya Narendra Dev College
University of Delhi

CONVENOR AND PROJECT INVESTIGATOR



Dr. Sarita Kumar

Associate Professor
Department of Zoology
Acharya Narendra Dev College
University of Delhi

PATRON



Dr. Ravi Toteja

Officiating Principal
Acharya Narendra Dev College
University of Delhi

**TAKE YOUR KNOWLEDGE TO THE
NEXT LEVEL**



**A LINK WILL BE SENT TO
REGISTERED CANDIDATES VIA
EMAIL TO JOIN THE WEBINAR**



SOCIETY FOR BACTERIOPHAGE RESEARCH AND THERAPY

Presents Webinar on



**Knowing the unknown: Approaches to characterize
the uncharacterized proteome of bacteriophages**

October 1, 2020
7 PM IST/7.30 AM MDT

KEYNOTE ADDRESS



Prof. B.N. Tripathi

Deputy Director General
Animal Sc., ICAR Head Quarters,
New Delhi

SPEAKER



Dr. Julianne H. Grose

Associate Professor
Brigham Young University
Provo, UTAH, USA

COORDINATORS

Dr. Urmi Bajpai

Acharya Narendra Dev College,
University of Delhi, India

Dr. Taruna Anand

National Centre for
Veterinary Type Cultures,
ICAR-NRCE, India

Registration Link

<https://rb.gy/cllath>



 @PhageIndia



SOCIETY FOR BACTERIOPHAGE RESEARCH AND THERAPY

Presents Webinar on

SEPTEMBER 3, 2020
8.30 PM IST/11 AM EDT

**Phage Directory: Making the world's phages
more accessible, manageable and shareable**

SPEAKERS



Jessica Sacher, PhD
Co-founder,
Phage Directory, USA



Jan Zheng, MHCI
Co-founder,
Phage Directory, USA


COORDINATORS

Dr. Urmi Bajpai
Acharya Narendra Dev College,
University of Delhi, India

Dr. Taruna Anand
National Centre for Veterinary Type
Cultures, ICAR-NRCE, India

Registration Link
<https://rb.gy/vyfukn>

<http://www.sbrtganga.com/>

 [@PhageIndia](https://twitter.com/PhageIndia)





**SOCIETY FOR BACTERIOPHAGE
RESEARCH AND THERAPY**

Presents Webinar on

AUGUST 14, 2020
8.30 PM IST/8 AM PDT/4 PM BST

**USING PHAGES TO COMBAT AMR: SCIENTIFIC CAPACITY
BUILDING THROUGH LABORATORY TRAINING WORKSHOPS**

SPEAKERS



Dr. Tobi Nagel

Founder & President of
Phages for Global Health,
USA



Prof. Martha Clokie

Professor of Microbiology,
University of Leicester, UK;
Editor-in-Chief,
PHAGE: Therapy, Applications,
and Research



Dr. Janet Nale

Research Associate,
Department of Infection,
Immunity and Inflammation,
University of Leicester, UK

CO-ORDINATORS:

Dr. Urmi Bajpai

Associate Professor, Acharya Narendra Dev
College, University of Delhi

Dr. Taruna Anand

Bacteriophage Lab, National Centre for
Veterinary Type Cultures, ICAR-NRCE

Register at:

<https://qr.go.page.link/BSrBc>



<http://www.sbrtganga.com/>
@PhageIndia



ACHARYA NARENDRA DEV COLLEGE

University of Delhi

Star College Status by DBT | NIRF All India Ranking 2020-18



ANDC CAREER COUNSELLING SERIES

Under the aegis of DBT STAR COLLEGE SCHEME

CAREER IN INDIAN FOREST SERVICES: A SESSION WITH IFS OFFICERS

APRIL 18, 2021 | 07:00 p.m. to 09:00 p.m.

FOR REGISTRATION : <https://forms.gle/kC1h6SXDxpC8ouGK7>



SANDEEP TAMBE
PROFESSOR
IIFM, BHOPAL



S. ELAMURUGANNAN
DEPUTY DIRECTOR
FOREST SURVEY OF INDIA
SOUTHERN ZONE



BANUMATHI G.
DEPUTY SECRETARY
DBT, INDIA



KARTHIKEYANI
IFS, 2018 BATCH



KRISHNA DEVAN
IFS, 2018 BATCH

PATRON

DR RAVI TOTEJA
OFFICATING PRINCIPAL

CONVENORS

DR ARCHNA PANDEY
DEPARTMENT OF BIOMEDICAL SCIENCE

DR RASHMI SHARMA
DEPARTMENT OF BOTANY

DR SEEMA MAKHIJA
DEPARTMENT OF ZOOLOGY

ORGANIZING COMMITTEE

DEPARTMENT OF BIOMEDICAL SCIENCE
Dr. Satendra Singh
Dr. Rimpay K Chowhan
Dr. Ritu Khosla
Dr. Deepshikha

DEPARTMENT OF BOTANY
Dr. Manoj Kr Singh
Dr. Sumit Sahni
Dr. Vineet Kr Singh

DEPARTMENT OF ZOOLOGY
Dr. Neelgagan Singh
Dr. Rahul Dev
Mr. Sanjay Kuma



Presents

ANDC Career Counselling Series "Career in Forensic Science"

by



Sweta

M.Sc. Forensic Science
(specialization in Forensic
Chemistry and Toxicology), LNJN
National Institute of Criminology
and Forensic Science
(MHA, Govt. of India)



Maniki Mathur

DNA Technologist, Bode Technology
Group Inc

M.Sc. Forensic Molecular Biology,
George Washington University, USA



Arti Varshney

Scientific Officer, Sherlock Institute of
Forensic Science, India

M.Sc. Forensic Science,
Sam Higginbottom University of
Agriculture, Technology and Sciences,
India

Post Graduate Diploma in Forensic
Science, SGTB Khalsa College,
University of Delhi, India

Date: March 20, 2021; Time: 07:30 pm to 09:00 pm
On Google Meet (<https://meet.google.com/ujx-wony-bjg>)

Patron

Dr. Ravi Toteja
Officiating Principal

Convenor

Dr. Archana Pandey
Department of Biomedical Science

Dr. Rashmi Sharma
Department of Botany

Dr. Seema Makhija
Department of Zoology

Organizing Committee

Dr. Satendra Singh, Dr. Rimpay K Chowhan, Dr. Ritu Khosla, Dr. Deepshikha (Department of Biomedical Science)

Dr. Manoj Kumar Singh, Dr. Sumit Sahni, Dr. Vineet Kumar Singh (Department of Botany)

Dr. Neelgagan Singh, Dr. Rahul Dev, Mr. Sanjay Kumar (Department of Zoology)

Student Coordinator

**Pritika Kwatra, Bisakha Das, Sakshi
Sharma** Page No. 256
(Department of Biomedical Science)



Presents

ANDC Career Counselling Series

"Studying in Europe - Interaction with Seniors"



Aparna Shandheep

M.Sc. Biomedical sciences- Infectious and tropical diseases, Belgium
PG Diploma in Forensic Science, University of Delhi
B.Sc. (Hons) Biomedical Science, ANDC, University of Delhi

Madan Khatiwada

Researcher at University of Antwerp, Belgium

M.Sc. in Leading International Vaccinology Education (Erasmus Mundus)
B.Sc. (Hons) Biomedical Science, ANDC, University of Delhi



Srishti Vajpayee

Ph.D. at University of Heidelberg, Germany and Cyanagen Srl, Italy.
M.Sc. in Biomedical Science with specialisation in molecular life sciences
from Radboud University, Netherlands.
B.Sc. (Hons) Biomedical Science, ANDC, University of Delhi

Rahul Shaha

Int. PhD at International Max Planck research school, Germany
M.Sc. Biotechnology from IIT Bombay
B.Sc. (Hons) Biomedical Science, ANDC, University of Delhi



Shazeb Ahmad

PhD at GARV laboratory at Helmholtz Institute for RNA based Infection Research
MS in FOKUS Life Science from University of Würzburg, Germany
B.Sc. (Hons) Biomedical Science, ANDC, University of Delhi

Date: March 14, 2021; Time: 07:30 pm to 09:00 pm

On Google Meet (<https://meet.google.com/yca-uzoy-ume>)

Patron

Dr. Ravi Toteja

Officiating Principal

Convenor

Dr. Archana Pandey

Department of Biomedical Science

Dr. Rashmi Sharma

Department of Botany

Dr. Seema Makhija

Department of Zoology

Organizing Committee

Dr. Satendra Singh, Dr. Rimpay K Chowhan, Dr. Ritu Khosla, Dr. Deepshikha (Department of Biomedical Science)

Dr. Manoj Kumar Singh, Dr. Sumit Sahni, Dr. Vineet Kumar Singh (Department of Botany)

Dr. Neelgagan Singh, Dr. Rahul Dev, Mr. Sanjay Kumar (Department of Zoology)

Student Coordinator

Sudepta Singh
(Department of Zoology)

Presents

ANDC Career Counselling Series "Career after MBA - Exploring the Unexplored"

by



Harshit Arora

Knowledge Management Associate,
ZS Associates

**PGDM (Healthcare
Management)**

GIM, Goa



<https://www.linkedin.com/in/harshit-arora-085541149>



Lalita Raja

Research Associate,
Clarivate

**MBA (Hospital and
Health Management)**

IIHMR, Jaipur



<https://www.linkedin.com/in/lalita-raja-1ba149190/>



Mayuri Mathuria

Knowledge Management Associate,
ZS Associates

**MBA (Hospital and
Health Management)**

IIHMR, Jaipur



<https://www.linkedin.com/in/mayuri-mathuria-15a37115b>

Date: March 7, 2021; Time: 07:30 pm to 09:00 pm

On Google Meet (<https://meet.google.com/hrs-cmbd-uyd>)

Patron

Dr. Ravi Toteja

Officiating Principal

Convenor

Dr. Archana Pandey

Department of Biomedical Science

Dr. Rashmi Sharma

Department of Botany

Dr. Seema Makhija

Department of Zoology

Organizing Committee

Dr. Satendra Singh, Dr. Rimpay K Chowhan, Dr. Ritu Khosla, Dr. Deepshikha (Department of Biomedical Science)

Dr. Manoj Kumar Singh, Dr. Sumit Sahni, Dr. Vineet Kumar Singh (Department of Botany)

Dr. Neelgagan Singh, Dr. Rahul Dev, Mr. Sanjay Kumar (Department of Zoology)

Student Coordinator

Mansi Arora

(Department of Biomedical Science)

International Bacteriophage Research Consortium

Presents lecture by



Professor Yves Briers

From discovery to high-throughput
engineering of phage lysins targeting
Gram-negative bacteria

Prof. Yves Briers is Associate Professor at the Laboratory of Applied Biotechnology at Ghent University, Belgium. His research focus is on synthetic biology of modular proteins with a keen interest in bacteriophage-encoded lysins for biocontrol of multi-drug resistant pathogens. Recently, they have developed an ingenious platform that gives turbo boost to the development of new antibiotics.



July 09, 2020

5:00 pm IST  1:30 pm CEST 



@phageconsortium



<https://bit.ly/3dWR04> Page No. 259



DEPARTMENT OF BIOMEDICAL SCIENCE
ACHARYA NARENDRA DEV COLLEGE
(University of Delhi, New Delhi)
Under the Aegis of DBT-STAR College Scheme



Presents

CATHEXIS 2021

COVID-19 VACCINE: FROM BENCH TO BEDSIDE AMIDST THE PANDEMIC

*"Vaccines for COVID-19 and
the way ahead" (Interactive Session)*



Prof. Gagandeep Kang

The Wellcome Trust Research Laboratory
Division of Gastrointestinal Sciences
CMC, Vellore, India

"Lessons learnt from COVID 19"



Prof. Daman Saluja

Director, Dr BR Ambedkar Centre for Biomedical Research
Joint Director, Delhi School of Public Health
University of Delhi

Date: 21 January, 2021

Time: 10:00 am

PATRON:
Dr Ravi Toteja
Principal, ANDC

CONVENOR:
Dr Urmi Bajpai
Teacher-In-Charge

ORGANISING COMMITTEE:
Dr Satendra Singh
Ms Rimpay Kaur
Dr Ritu Khosla
Dr Deepshikha

REGISTER AT:
<https://qrqo.page.link/UM39Z>



Link for the event will be mailed to registered candidates on 20th Jan, 2021.

International Bacteriophage Research Consortium

Presents lecture by



Professor Paul E. Turner

Challenges in commercially
developing phage therapy to
target drug-resistant bacteria.

Professor Paul E. Turner, Rachel Carson Professor of Ecology & Evolutionary Biology & Microbiology, Yale University; Faculty member at Yale School of Medicine, USA. An expert in Steering Phages and INSeq mutagenesis, Prof. Turner is an established authority in bio-therapeutic application of phages.



January 27, 2021

6:30 pm IST 

8:00 am EST 



@phageconsortium



Scan to Register  Page No. 261
<https://cutt.ly/ljlb8KU>



DEPARTMENT OF BIOMEDICAL SCIENCE
ACHARYA NARENDRA DEV COLLEGE
(University of Delhi, New Delhi)
Under the Aegis of DBT-STAR College Scheme



Presents

CATHEXIS 2021

COVID-19 VACCINE: FROM BENCH TO BEDSIDE AMIDST THE PANDEMIC

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Prof. Gagandeep Kang

The Wellcome Trust Research Laboratory
Division of Gastrointestinal Sciences
CMC, Vellore, India

"Lessons learnt from COVID 19"



Prof. Daman Saluja

Director, Dr BR Ambedkar Centre for Biomedical Research
Joint Director, Delhi School of Public Health
University of Delhi

Date: 21 January, 2021

Time: 10:00 am

PATRON:
Dr Ravi Toteja
Principal, ANDC

CONVENOR:
Dr Urmi Bajpai
Teacher-In-Charge

ORGANISING COMMITTEE:
Dr Satendra Singh
Ms Rimpay Kaur
Dr Ritu Khosla
Dr Deepshikha

REGISTER AT:
<https://qrqo.page.link/UM39Z>



Link for the event will be mailed to registered candidates on 20th Jan, 2021.

Phage Bioinformatics Lecture Series

Hosted by

IBRC-Phage Directory



Deborah Jacobs-Sera

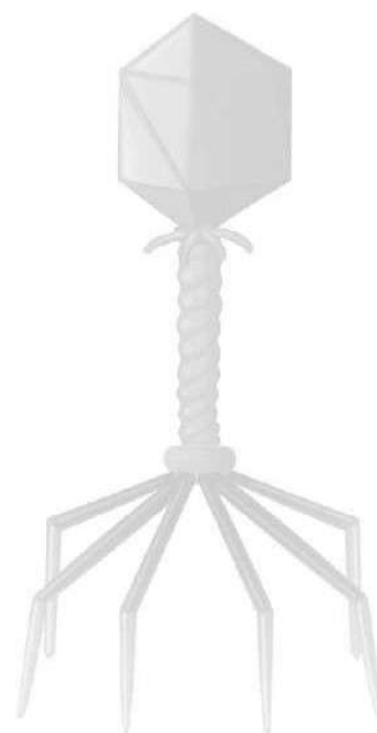
Genomic Annotation and
Comparative Bioinformatic
Analysis of Actinobacteriophages

Deborah Jacobs-Sera, Senior Researcher,
Hatfull Lab; Coordinator of PHIRE & SEA-
PHAGES Project Materials, Department of
Biological Sciences, University of Pittsburgh,
USA

February 16, 2021

6:30 pm IST 

8:00 am EST 



@phageconsortium
@phagedirectory



Scan to Register OR
<https://bit.ly/3tOlbrU>

Phage Bioinformatics Lecture Series

Hosted by

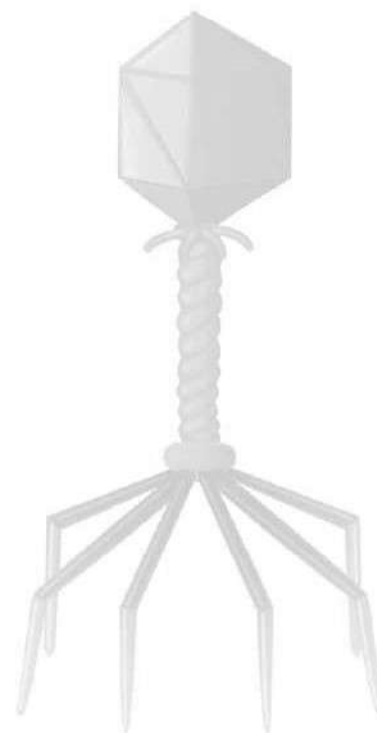
IBRC-Phage Directory



Katelyn McNair

Phage genome annotation: the right way and/or the easy way!

Katelyn McNair, Research Scholar, University of California, Irvine and San Diego State University, USA. Developer of the first gene finder software PHANOTATE, specifically designed for phage genome annotation & PHACTS for the prediction of temperate/virulent phages.



March 2, 2021

9:00 pm IST 

7:30 am PST 



@phageconsortium
@phagedirectory



Scan to Register OR
<https://rb.gy/9as5b0>

Phage Bioinformatics Lecture Series

Hosted by

IBRC-Phage Directory



Dr. Justin Clark

TAILΦRED Medicine: bioinformatic analysis of bacteriophages for therapeutic use and lessons learned from single patient cases

Dr. Justin Clark is the Lead Data Scientist and Co-founder of TAILΦR, a Baylor College of Medicine bacteriophage initiative, Houston, Texas, USA.

Research focus: therapeutic use of bacteriophages and comparative genomics of ESKAPE pathogens.

March 30, 2021

8:30 pm IST 

10:00 am CT 



@phageconsortium
@phagedirectory



Scan to Register OR
<https://bit.ly/319u5UD>



thsti

ट्रांसलेशनल स्वास्थ्य विज्ञान
एवं प्रौद्योगिकी संस्थान Page No. 266

TRANSLATIONAL HEALTH SCIENCE
AND TECHNOLOGY INSTITUTE

VIRTUAL SCIENCE SETU

VIRUSES & IMMUNITY

PROGRAMME SCHEDULE

- 11:00 AM WELCOME NOTE
DR. SOMA PATNAIK
- 11:03 AM VIROLOGY: IMPORTANCE IN
HUMAN HEALTH MANAGEMENT,
SCOPE & PROSPECTS
DR. MILAN SURJIT
- 11:30 AM VACCINE DEVELOPMENT FOR
RESPIRATORY VIRUSES: PAST
& FUTURE
DR. SWEETY SAMAL
- 11:55 AM COMPLEXITY OF IMMUNE
RESPONSE IN COVID19
DR. AMIT AWASTHI
- 12:20 AM FLOW CYTOMETRIC APPROACH
TO UNDERSTANDING DISEASE
BIOLOGY
DR. DEEPAK RATHORE
- 12:45 AM Q & A SESSION



ACHARYA NARENDRA DEV COLLEGE UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC & DBT STAR COLLEGE

Incredible : Northeast Association of ANDC

REUNION OF THE NORTH EAST FRATERNITY 2021

Invites you for a talk on

EDUCATION: THE KEY TO DEVELOPMENT OF NE STATES OF INDIA



Guest Speaker

Ms. Soso Shaiza

Ex-Member

National Commission for Women (NCW)

Government of India.



Google Meet

Link : <https://meet.google.com/ays-pwoq-diw>

Monday, 28th June 2021 at 2:00 pm

Prof. Ravi Toteja
Principal

Dr. Subash Kumar
Convenor

Dr. Neelakshi Borah
Prog. Coordinator

Dr. Siddhartha
Prog. Coordinator



Acharya Narendra Dev College Page No. 269

University of Delhi

NAAC Accreditation Grade 'A' | NIRF 2020 AIR 18

Sashakt: The Society for Women Empowerment

Under the aegis of DBT Star College Scheme

INVITES YOU FOR A WEBINAR
BY



Dr Hansaji Yogendra

The Yoga Institute

Our Guest Speaker

TOPIC **MANAGING LIFE IN COVID TIMES**
YOGA SHOWS THE WAY



May 29, 2021; 6:30 pm

Registration Link: <https://forms.gle/Wrt4ELncaLupGcSF8>

Dr Ravi Toteja
Officiating
Principal

Dr Geetika Kalra
Sashakt Convenor

Dr Rashmi Sharma
Department Star
Convenor



ACHARYA NARENDRA DEV COLLEGE UNIVERSITY OF DELHI

(All India NIRF 2020 Ranking-18, NAAC Score-3.31)

DEPARTMENT OF BIOMEDICAL SCIENCE

Under the Aegis of DBT-STAR College Scheme



Presents a webinar
on
**Introduction to Digital Forensics and
Electronic Evidences**



Speaker

Dr. Mohit Soni

- CEO
WhiteLint Global Pvt. Ltd
- Associate Professor
Lovely Professional University, Punjab
- Trainer
Police Training School, Dwarka
- Former consultant
Cyber Crime Investigation, Ministry of
Home Affairs, Delhi



April 3, 2021



03:00 pm to 05:00 pm



<https://meet.google.com/btj-itvu-jqw>

Patron

Dr. Ravi Toteja
(Officiating Principal)

Co-convenors

**Dr. Satendra Singh, Dr. Rimpky K Chowhan,
Dr. Deepshikha**

Convenors

**Dr. Archana Pandey
Dr. Ritu Khosla**

Student Co-ordinator

**Pritika Kwatra, Ashutosh Singh, Anjali
Bhadana**

Phage Bioinformatics Lecture Series

Hosted by

IBRC-Phage Directory



Dr. Jason Gill

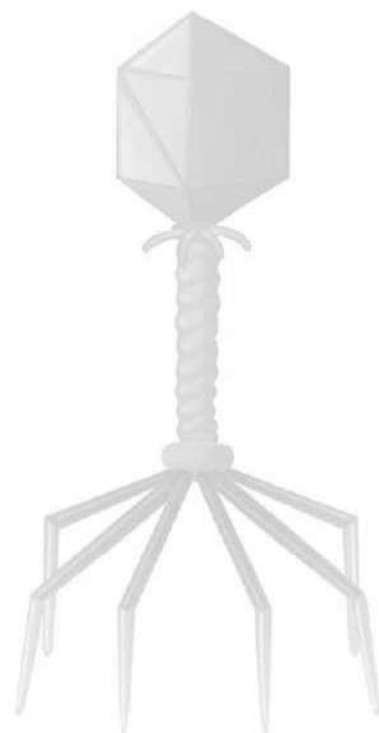
Phage genome annotation pipelines
in CPT Galaxy and WebApollo

Dr. Jason Gill: Associate Professor, Department of Animal Science, Associate Director, Center for Phage Technology (CPT), Texas A&M University, Holds joint appointment with the Faculty of Genetics & the Department of Microbial Pathogenesis and Immunology in the College of Medicine, Current chair of Division M of the American Society for Microbiology.

Research focus: phage genomics, basic phage biology, and the applications of phages in real-world settings against bacterial pathogens including *E. coli*, *Salmonella*, *S. aureus*, *K. pneumoniae*, and *A.baumannii*

April 7, 2021

8:30 pm IST  | 10:00 am CT 



@phageconsortium
@phagedirectory



Scan to Register QR
<https://bit.ly/3cx2EK5>

Eco club -'PARITANTRA'

How noise pollution is affecting human health?

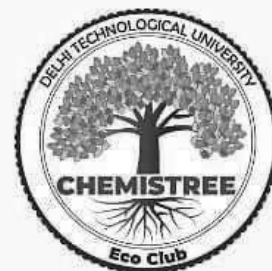
- Hearing Loss
- Reduced Brainpower
- Cardiovascular Problems
- Sleep Problems
- Physiological Stress



Major Pollutants include :
Aircraft noise, Road traffic,
trains and ships, loud Upbeat
music and many more

@ecoclub_andc





CHEMISTREE
ECO CLUB DTU

IS PROUD TO ANNOUNCE



ECO-CLUB 'PARITANTRA'

Acharya Narendra Dev College
University of Delhi

ORGANISING PARTNER OF
e-GREEN SUMMIT

UNIVERSITY OF DELHI

NAAC Accreditation Grade 'A' | NIRF - 2020 All India Ranking 18

National Service Scheme Unit @ANDC

PRESENTS

"Cancer Survivors share their Journey" October 23, 2020 Friday @4:30pm

From every wound there is a scar, and every
scar tells a story.

A story that says 'I Survived'.

Mera Sangharsh

Meri Jeet

Meri Kahani



"The Best Protection is Early Detection"

Early the detection, longer is the protection

Join us on Zoom:

<https://bit.ly/37vCnd0>

Meeting ID: 815 4351 4615

Passcode: 548972

Dr. Sunita Jetly

(Program Officer NSS)

Dr. Ravi Toteja

(Officiating Principal)

Dr. Pooja Bhagat

(Coordinator UBA)

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@andcnss

Page No. 274



Prof Daman Saluja
(Breast Cancer Virani)



Director
Dr. B.R. Ambedkar Center for
Biomedical Research
Joint Director
Delhi School of public health

Former general secretary of
Bhartiya Grameen Mahila
Sangh
Chandigarh



Mrs. Kanchan Singh
(Breast Cancer Virani)

Dr Indu Rampal
(Breast Cancer Virani)



Former Senior Lecturer at
Amity Institute of Corporate
Communication

Founder
Aarna Biomedical Products
Creator of Sampoorti-Poorti
System for post surgical
prosthetic rehabilitation for
breast cancer survivors



Dr. Pawan Mehrotra
(ANDC Alumini -
Department of Biomedical
Science)

PROGRAM SCHEDULE

Inauguration : 4:30 p.m.

Talk by the panelists : 04:45 p.m - 05:30 p.m

Interaction with the panelists : 05:30 p.m - 06:00 p.m



Anindita Panda (NSS Volunteer) Rahul Bhardwaj (NSS Volunteer) Manish Soni (NSS Volunteer)



Acharya Narendra Dev College (University of Delhi)

Page No. 276



National Service Scheme

Presents

Vande Matram Talk series-2 October 9, 2020



Interactive Session:

R.K. Singh

Retired Group Captain

**Role of Air Power in Current Indo China
Face-off**

3:00 PM to 4:00 PM



Webinar:

Sneha Singh

Wing Commander

Career opportunities in Indian Air Force

4:00 PM to 5:00 PM



Join us on Google meet:

<https://meet.google.com/mff-xmrx-yuj>

Live Webcast:

<https://youtu.be/kJ4MXVgkfw>

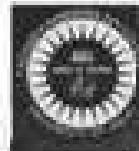
**Dr. Sunita Jetly
(Program Officer)**

Follow us



**For any queries -
Manish (94136 95097)
Niharika (8826834077)**

Page No. 276



Acharya Narendra Dev College

University of Delhi

Organizes

Webinar

on

National Education Policy (NEP) 2020

By

Dr Sunita Jetley

Program Officer, NSS

Join us on Zoom

[https://us02web.zoom.us/j/87234468829?](https://us02web.zoom.us/j/87234468829?pwd=d2c3TmR5M1VHME9tSUUa1dDS3RoZz09)

[pwd=d2c3TmR5M1VHME9tSUUa1dDS3RoZz09](https://us02web.zoom.us/j/87234468829?pwd=d2c3TmR5M1VHME9tSUUa1dDS3RoZz09)

Dr Pooja Bhagat
Coordinator, UBA

Meeting ID: 872 3446 8829
Passcode: 842491

Dr Manisha Jain
Co-Coordinator, UBA

ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31
NIRF RANKING-18 | DBT STAR COLLEGE

Department of Zoology
presents

Evolution as Darwin know as a child

Dr Mallikarjun Shakarad

Professor, Aqua Research lab,
Department of Zoology, University of Delhi

10 AM ONWARDS

Dr. Monica Mishra
Prof. Seema Makhija

Faculty
(Department of Zoology)

Date:- May 21,2021

Venue:- Seminar Hall



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)



DEPARTMENT OF PHYSICAL EDUCATION
& SPORTS

PRESENTS WEBINAR ON
**YOGA ASANA & MEDITATION TO
BOOST IMMUNITY**

INVITED SPEAKERS:



DR. TARAK NATH PRAMANIK

- Assistant Professor in Indira Gandhi Institute of Physical Edu. & Sports Sciences
- Secretary in State Yoga Sports Association



DR. DHANANJOY SHAW

- Officiating Principal for IGIPESS, DU
- PRESIDENT OF INDIAN SOCIETY OF KINESIOLOGY (ISK)



ACHARYA NARENDRA DEV COLLEGE



**SASHAKT:
THE WOMEN EMPOWERMENT
CELL**



IN COLLABORATION WITH
UNICHARM
BRINGS TO YOU
WEBINAR

ON

MENSTRUAL HYGIENE

**DATE: JULY 13, 2020
TIME: 11:00 AM**

**GOOGLE MEET LINK
WILL BE SHARED SOON**

**DR. RAVI TOTEJA
(OFFICIATING
PRINCIPAL)**

**DR. GEETIKA KALRA
(CONVENDOR-
SASHAKT)**



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31
NIRF RANKING-18 | DBT STAR COLLEGE

Department of Biomedical Science

Webinar on 'Thalassemia Screening And Awareness Program'

jointly organised by

**Delhi School of Public Health and
Dr B. R. Ambedkar Center for Biomedical Research**

Under the aegis of FBR with NARCI Delhi and NEEV

Date:- April 09,2021

Dr. Sunita Jetly
Faculty
(Department of Biomedical Science)

Venue:- Seminar Hall



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC SCORE 3.31
NIRF RANKING-18 | DBT STAR COLLEGE

Department of Chemistry

Abhikriya – A chemical Society

Presents

Career Opportunities After Graduation

Ms. Kanchan Nanda Balhan

10 AM ONWARDS

Dr. Sunita Hooda

Faculty
(Department of Chemistry)

Date:- November 12, 2020

Venue:- Seminar Hall

IBRC Symposium

Presents

Phage Lysins: Promising alternatives to antibiotics



Dr T. S. Balganes

President,
GangaGen Biotechnologies Pvt.
Ltd. (GBPL)
Member, Board of Directors,
GBPL, INDIA.



Mr Sukumar Hariharan

Head of Development,
GBPL, INDIA



Dr. Vincent A. Fischetti

Professor & Head,
Laboratory of Bacterial
Pathogenesis and Immunology,
Rockefeller University, U.S.A.

“

*A brief overview of
US Bacteriophage
Research Landscape*”

Joseph Campbell

NIAID Program Officer & Leader
of NIAID Bacteriophage Interest
Group, U.S.A.

July 9, 2021

7:30 pm IST 

| 10:00 am ET 



@phageconsortium



Scan to Register
OR Use the Link:
shorturl.at/cpCV3



ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI
DBT STAR COLLEGE



ACCREDITED 'A' GRADE BY NAAC/ ALL INDIA NIRF 2020 RANKING-18

Under the aegis of IQAC & DBT STAR College Scheme

Workshop

on

"Initiating Virtual Labs @ ANDC"

in collaboration with



Indian Institute of Technology-Delhi

August 24, 2021

04:00 to 05:30 pm

Register at : <https://forms.gle/dXJb4Fh6Uzeuhk3f7>



Patron
Prof. Ravi Toteja
(Officiating Principal)

Dr. Sumit Sahni
Department of Botany
(Nodal Coordinator)

Dr. Vineet Kumar Singh
Department of Botany
(Nodal Co-coordinator)



**Acharya Narendra Dev College
(University of Delhi)**

NAAC Accreditation Grade 'A' | NIRF 2020 AIR- 18

Under IQAC and the Aegis of DBT Star Scheme

**FOSS Club, Department of Computer Science invites
Faculty and Students to a Two Day Workshop on**

**EFFECTIVE PRESENTATION
&
IMAGE MANAGEMENT FOR SUCCESS**

3- 6 pm On August 24-25, 2021

Link for Google Meet: <http://t.ly/kyZ6>

Resource Person

**Mrinal Gupta Virmani,
Confidence Coach & Softskills Trainer,
Image Consultant & Chartered Accountant**



**Dr. Sharanjit Kaur
Convener, FOSS Club**

**Dr. Sunita Narang
TIC & Coordinator**

**Dr. Harita Ahuja
Star Coordinator**

**Dr. Ravi Toteja
Patron & Officiating Principal**

**SCAN QR CODE FOR REGISTRATION :
LINK FOR REGISTRATION : <http://t.ly/f38L>**



**Acharya Narendra Dev College
(University of Delhi)**

NAAC Accreditation Grade 'A & NIRF 2020 AIR-18

Under IQAC & The Aegis of DBT Star Scheme

**FOSS CLUB, DEPARTMENT OF COMPUTER SCIENCE
INVITES
FACULTY AND STUDENTS TO A TWO DAY WORKSHOP
ON**

**EFFECTIVE PRESENTATION
&
IMAGE MANAGEMENT FOR SUCCESS**

By : Mrinal Gupta Virmani

***Link for Registration:
<http://t.ly/f38L>***

***Date: 24-25 Aug, 2021
Time: 3-6 pm,***

***Link for Google Meet:
<http://t.ly/kyZ6>***

DAY 1: PRESENTATION SKILLS

- **Tips on Preparation & Delivery**
- **Overcoming Anxiety before Presentation**
- **Practical tips for Virtual Presentation**

DAY 2: IMAGE MANAGEMENT

- **Importance of Right Image**
- **Enhancing Self Image**
- **Tips on Professional Dressing**
- **Tips on Professional Etiquette**





Acharya Narendra Dev College

(University of Delhi)

NAAC Accreditation Grade 'A' | NIRF Ranking 20 | DBT STAR College

under the aegis of DBT STAR COLLEGE
Scheme and IQAC

organizes

Hands on Workshop
on

Biological Techniques

Venue: Department of Zoology

Date: September 27 - October 4, 2021

Time: 9:00 am - 4:00 pm

Patron: Prof. Ravi Toteja, Officiating Principal

Convenor: Dr Rahul Dev, Department of Zoology

Organizing Team: Faculty and Non-teaching Staff,
Department of Zoology



Workshop Schedule

Day	Time	Techniques	Resource Person
September 27, 2021	9:00am-12:00pm	Visit to research laboratories	Prof. Sarita Kumar, Prof. Urmi Bajpai, Prof. Monisha Khanna Kapur, Prof. Seema Makhija, Prof. Charu K. Gupta
	1:00pm-4:00pm	Preparation of liquid and solid culture medium (LB)/ SDS PAGE/ agarose gel electrophoresis	Prof. Seema Makhija, Dr Monica Misra, Dr Rahul Dev
September 28, 2021	9:00am-12:00pm	Blood group determination Preparation of stained blood film	Mr Ravinder Sagar Mr Abhay Pratap Singh
	1:00pm-4:00pm	Inoculation of <i>E.coli</i> in liquid media Plating of <i>E.coli</i> by streaking and spreading method	Dr Rahul Dev Mr Vineet Girdharwal
September 29, 2021	9:00am-12:00pm	Preparation of polytene chromosome	Prof. Ravi Toteja Dr Neelgagan Singh
	1:00pm-4:00pm	Estimation of the growth kinetics of <i>E. coli</i> by turbidity method	Dr Rahul Dev Dr Shrankhla
September 30, 2021	9:00am-12:00pm	Demonstration of antibiotic sensitivity/resistance of <i>E. coli</i>	Dr Rahul Dev Prof. Seema Makhija
	1:00pm-4:00pm	Quantitative estimation of salmon sperm/calf thymus DNA using colorimeter	Dr Rahul Dev Mr Sanjay Kumar
October 1, 2021	9:00am-12:00pm	Ouchterlony's double immuno-diffusion method	Dr Sweety Shrimali Dr Aparna Sharma
	1:00pm-4:00pm	PTC Test	Dr Aparna Sharma Dr Sweety Shrimali
October 4, 2021	9:00am-12:00pm	ELISA	Mr Vikas Sachdev, Technical Officer, AIIMS, New Delhi
	1:00pm-4:00pm	Introduction to virtual labs (V-Labs)	Prof. Seema Makhija, Dr Rahul Dev

Technical Team

Mr Sachidanand Misra
Mr Sanjeev
Mr Tara Dutt Sharma
Mr Pramod Bhatt
Mr Jai Prakash
Mr Vikas Sharma
Mr Sagar
Mr Mahesh
Mr Harshal
Ms Sumitra
Ms Kanika Chaddha (Museum Curator)



THIS POSTER HAS BEEN CREATED ON PHOTOSHOP

DO YOU WANT TO LEARN HOW TO DO THIS?

Join us for 2-day Webinar Workshop on

BASICS OF PHOTOSHOP

and its application for Poster Making,
Reports, Photo Editing & Social Media



Resource Person

Sonalika Arora

Digital Marketing Designer

30 Sept - 1 Oct | 4-7 pm

Google Meet Link: <https://meet.google.com/cuy-mirh-fvf>

Organised by

**Abhikriya - Chemical Society, Dept. of Chemistry
under the Aegis of DBT star College scheme and IQAC**

Prof. Ravi Toteja

Patron

Prof. Sunita Hooda

DBT Coordinator

Dr. Geetu Gambhir

Convener

Dr. Pragati Malik

Co-convener

Certificate provided on successful completion.

Please log-in from desktop/ laptop for hands-on session.



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC- SCORE 3.31

NIRF 2021 ALL INDIA RANKING 20 | DBT STAR COLLEGE



Page No. 291

Department of Computer Science & Internal Quality Assurance Cell

(Under the aegis of DBT Star College Scheme 2021-22)

Organizes

Two-Day | October
Online | 2-3,
Workshop | 2021

ON

**"FRONT-END WEB UI FRAMEWORKS OVERVIEW:
BOOTSTRAP"**



Prof. Ravi Toteja
(Institution DBT Star Scheme Coordinator,
Officiating Principal)

Dr. Harita Ahuja
(Department DBT Star Scheme
Coordinator)

Dr. Sharanjit Kaur
(FOSS Club Convener)

Dr. Sunita Narang
(Teacher-In-Charge)

Ms. Anu Preveen
(Convener)

Ms. Shiva Saini
(Co-Convener)

**E-Certification on successful completion of
Workshop.**

Page No. 291



MR. ASHWANI BHATIA

Web Designer / Developer

Schedule

DAY 1

OCTOBER 2, 2021

DAY 2

OCTOBER 3, 2021

10 AM - 11.30 AM

SESSION 1

*Quick Recap of
HTML, Basics of CSS*

*Typography
of Bootstrap*

BREAK

12 Noon - 1.30 PM

SESSION 2

*Introduction of
Bootstrap*

Assignment



MS Teams Link :

<http://shorturl.at/rEOQ3>



THE CHEMICAL SOCIETY
Department of Chemistry
Under the Aegis of DBT Star Scheme and IQAC



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

NAAC ACCREDITATION Grade 'A' | NIRF RANK - 20

presents

2-DAYS WORKSHOP

ON

Computational Chemistry Workshop: A New Approach to Understanding & Solving Chemical Problems

Open for Faculty, Science Undergraduates, Post-Graduates and Research Scholars

Avogadro: an open-source molecular builder and visualization tool

Last date to register is 4th October 2021

No registration Fee

Objectives

Participants will learn:

An Introduction to Avogadro, Molecular Builder and Visualizer
Building molecules, biomolecules, carbon nanotubes, supercell and
perform geometry optimization calculations

Introduction to Quantum Chemistry packages, installing ORCA
Quantum Chemistry Package, DFT, Generate and visualize molecular
orbitals, Simulate UV-VIS spectrum of a molecule in implicit solvent
medium.



Invited Speaker

Dr. Shyam Kishor

Associate Professor &
Head, Department of Chemistry
Janta Vedic College, Baraut (Baghpat)

DATE: 6-7 October 2021

TIMING: 10:00AM - 4:00PM

VENUE: GOOGLE MEET



ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI
ACCREDITED 'A' GRADE BY NAAC- SCORE 3.31
NIRF 2021 ALL INDIA RANKING 20 | DBT STAR COLLEGE



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FOSS Club

Department of Computer Science & Internal Quality Assurance Cell

(Under the aegis of DBT Star College Scheme 2021-22)

Organizes

Two-Day | October
Online | 6-7,
Workshop | 2021



ON

"HTML: A PRE-REQUISITE FOR MERN STACK"

Prof. Ravi Toteja
(Institution DBT Star Scheme Coordinator,
Officiating Principal)

Dr. Harita Ahuja
(Department DBT Star Scheme
Coordinator)

Dr. Sharanjit Kaur
(FOSS Club Convener)

Dr. Sunita Narang
(Event Convener,
Teacher-In-Charge)

Ms. Shiva Saini
(Event Co-Convener)

Registration link: t.ly/0w1S

E-Certification on successful completion of Workshop.

Workshop Schedule

SPEAKERS



Name : Rishi Sarbobhoum
 Course : B. Sc. (H.) Computer Science
 Semester : 5th
 Topic : Introduction to HTML, HTML Tags & Elements and Formatting

Oct. 6, 2021
 3PM-4PM

Oct. 6, 2021
 4PM-5PM

Name : Aditya Goyal
 Course : B. Sc. Physical Sciences with
 Computer Science
 Semester : 5th
 Topic : Forms and related functions




Name : Devesh Yadav
 Course : B. Sc. Physical Sciences with
 Computer Science
 Semester : 5th
 Topic : HTML Tables & Lists

Oct. 7, 2021
 3PM-4PM

Oct. 7, 2021
 4PM-5PM

Name : Sushant Sharma
 Course : B. Sc. Physical Sciences with
 Computer Science
 Semester : 5th
 Topic : CSS Iframes



 **MS Teams Link :**
<http://shorturl.at/ejuly>



ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC- SCORE 3.31
NIRF 2021 ALL INDIA RANKING 20 | DBT STAR COLLEGE



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FOSS Club

Department of Computer Science

& Internal Quality Assurance Cell

(Under the aegis of DBT Star College Scheme 2021-22)

Organizes

An Online Workshop from October 9-24, 2021
(on weekends from 10AM to 12PM)

TITLE:

**A FIRST STEP TOWARDS DEVELOPING
VIRTUAL LAB USING MERN STACK**

TRAINER:

MR. PRABHAT CHANDRA
FREELANCE TRAINER/DEVELOPER



Registration Link:<http://shorturl.at/rvl34>

Prof. Ravi Toteja
(Institution DBT Star Scheme Coordinator,
Officiating Principal)

Dr. Harita Ahuja
(Department DBT Star
Scheme Coordinator)

Dr. Sunita Narang
(Teacher-In-Charge)

Prof. Vibha Gaur
(Convener)

Ms. Vandita Grover
(Co-Convener)

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WORKSHOP SCHEDULE

Day 1
Oct. 9, 2021
10AM - 12PM

*Introduction to
JavaScript and ES6*

Day 2
Oct. 10, 2021
10AM - 12PM

Typescript

Day 3
Oct. 16, 2021
10AM - 12PM

*Introduction to
NodeJS*

Day 4
Oct. 17, 2021
10AM - 12PM

*Fundamentals of
ReactJS*

Day 5
Oct. 23, 2021
10AM - 12PM

*ReactJS various
features*

Day 6
Oct. 24, 2021
10AM - 12PM

*Connecting MongoDB with
ReactJS apps. and it's
deployment*



MS Teams Link:
<http://shorturl.at/envPY>



Acharya Narendra Dev College

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NAAC Accreditation Grade A | NIRF Ranking 2021-20 | DBT STAR College

Revisting Botany Laboratory Exercises

*Five day hands-on training of Key Laboratory exercises missed
by the students of Botany (H) and Life Sciences due to lockdown*

under the aegis of DBT STAR College Scheme

19-23
October, 2021

Professor Charu K. Gupta
Teacher-in-Charge, Botany

Dr Rashmi Sharma
Coordinator, DBT STAR College

Professor Ravi Toteja
Officiating Principal



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Under the aegis of DBT STAR Scheme and IQAC



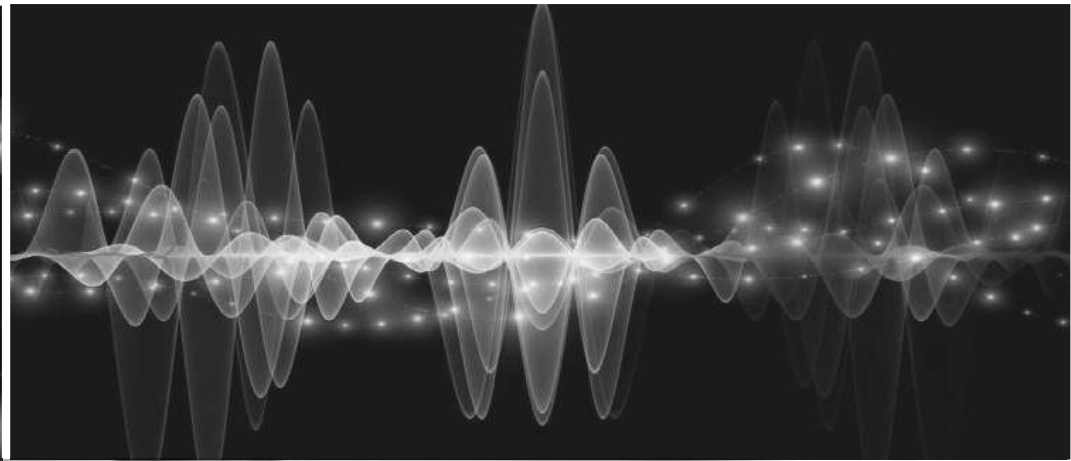
in collaboration with
**FLOW CYTOMETRY
SOLUTIONS PVT. LTD.**

Organizes a

NATIONAL WORKSHOP (VIRTUAL) ON

**20-24
OCTOBER
2021**

FLOW CYTOMETRY & qPCR BASED BLOOD ANALYSES



REGISTRATION FEE

**Graduate/Post Graduate
Students: Rs 300
Ph.D Students: Rs 400
Faculty: Rs 500**

***E-certificates will be given
to all participants***

***Scan QR Code
for registration***

Link for registration

<https://bit.ly/3mF4IUf>





Prof. Daman Saluja, Director
Dr. B.R. Ambedkar Centre for
Biomedical Research, DU



Dr. Hemant Agarwal, Director
Flowcytometry Solutions Pvt Ltd.



Dr. Sunita Jetly, Assoc. Prof.
Acharya Narendra Dev College, DU



Dr. Nirupma Trehanpati, Prof.
Institute of Liver and Biliary Sciences



Dr. Navkiran Kaur, Asst. Prof.
Amity University, Noida



Dr. Ritu Khosla, Asst. Prof.
Acharya Narendra Dev College, DU



Dr. Ashish Vyas
DBT INSPIRE Faculty, AIIMS Bhopal



Dr. Anirudh Singh, Scientist D,
AIIMS, Bhopal

Chief Guest



Professor Balaram Pani
Dean Colleges and
Principal, Bhaskaracharya College of Applied Sciences
University of Delhi

DAY-1 October 20, 2021

PLASMA, SERUM AND PBMC ISOLATION



TIME	TOPIC	SPEAKER
3:00 pm - 3:10 pm	Inauguration and lamp lighting	
3:10 pm - 3:20 pm	Welcome Address	Prof. Ravi Toteja (Officiating Principal)
3:20 pm - 3:30 pm	Address by Chief Guest	Prof. Balaram Pani (Dean Colleges, DU)
3:30 pm - 4:00 pm	Blood and its composition	Dr. Sunita Jetly (ANDC, DU)
4:00 pm - 4:45 pm	Separation of different components of blood (Density Gradient Centrifugation)	Dr. Navkiran Kaur (Amity University, Noida)
4:45 pm - 5:00 pm	Question & Answer session	
5:00 pm - 6:00 pm	Virtual Demonstration of PBMC Isolation	Dr. Ashish Vyas (AIIMS, Bhopal)



DAY-2 October 21, 2021

ANALYSIS OF LYMPHOCYTES BY FLOW CYTOMETRY

TIME	TOPIC	SPEAKER
3:00 pm - 4:00 pm	Introduction to flow cytometry	Dr. Hemant Agarwal
4:00 pm - 5:00 pm	Designing of a flow cytometry experiment	
5:00 pm - 6:00 pm	Applications of flow cytometry	Dr. Nirupma Trehanpati (Professor, ILBS)
6:00 pm - 6:30 pm	Question & Answer session	



DAY-3 October 22, 2021

ANALYSIS OF LYMPHOCYTES BY FLOW CYTOMETRY

TIME	TOPIC	SPEAKER
3:00 pm - 4:00 pm	Setting up of flow cytometer and data acquisition (Virtual demonstration)	Dr. Hemant Agarwal
4:00 pm - 5:30 pm	Flow cytometric data analysis and presentation	
5:30 pm - 6:00 pm	Question & Answer session	



DAY-4 October 23, 2021

REAL TIME PCR

TIME	TOPIC	SPEAKER
3:00 pm - 4:00 pm	PCR and its applications	Dr. Daman Saluja (ACBR, DU)
4:00 pm - 5:00 pm	Principle and working of q-PCR	Dr. Ritu Khosla (ANDC, DU)
5:00 pm - 6:00 pm	Application of q-PCR	Dr. Anirudh Singh (AIIMS, Bhopal)
6:00 pm - 6:30 pm	Question & Answer session	



DAY-5 October 24, 2021

REAL TIME PCR

TIME	TOPIC	SPEAKER
2:00 pm - 2:45 pm	Virtual demonstration of qPCR	Dr. Anirudh Singh (AIIMS, Bhopal)
2:45 pm - 3:45pm	Data analysis Question & Answer session	Dr. Ritu Khosla
3:45 pm - 4:00 pm	Vote of Thanks	Dr. Sunita Jetly

****e-certificates will be generated automatically upon successful completion of assignments and submission of feedback forms by the participants.***



PATRON

Prof. Ravi Toteja

Officiating Principal

CONVENORS

Dr. Sunita Jetly

Department of Biomedical Science

Dr. Ritu Khosla

Department of Biomedical Science

ADVISORY COMMITTEE

Prof. Daman Saluja

Director, ACBR

Prof. Nirupma Trehanpati

ILBS, Delhi

Prof. Seema Kapoor, In-charge

Division of Genetics & Metabolism

MAMC, Delhi

DBT STAR CO-ORDINATOR

Dr. Archana Pandey

Department of Biomedical Science

FACULTY CO-ORDINATOR

Dr. Deepshikha

Department of Biomedical Science

STUDENT CO-ORDINATORS

Mehak Sharma

Shrishti Singh

B.Sc.(H) Biomedical science II year

ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

<https://www.andcollege.du.ac.in>



+91- (0)11- 26294540 Near Govindpuri Metro Station



Hands – on workshop on DIGITAL SYSTEMS & APPLICATIONS WITH MICROPROCESSORS AND MICROCONTROLLERS



organized by
**Department of Physics and Internal
Quality Assurance Cell (IQAC)
Acharya Narendra Dev College**
[under the aegis DBT STAR College scheme]

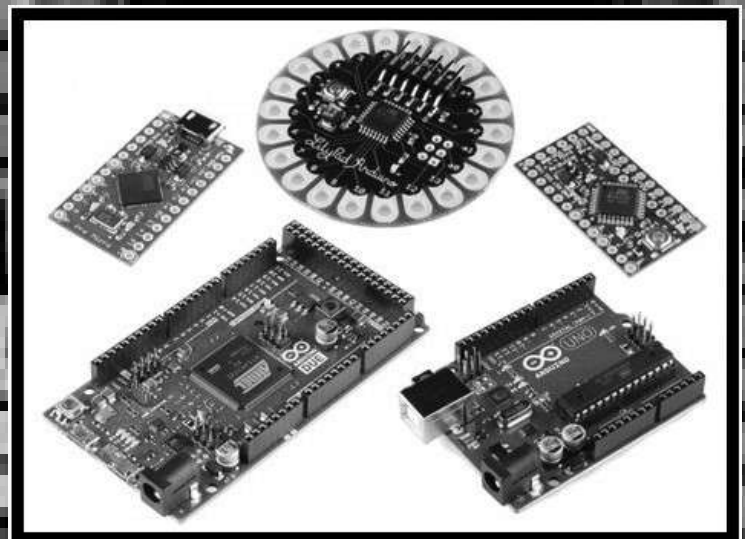
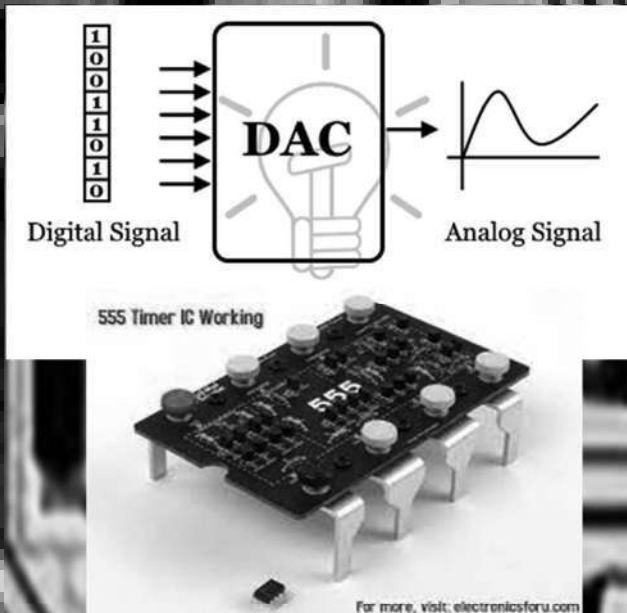
20 – 27 October 2021

Requisites

- Bring your own laptop (Linux/Windows)
- Active participation on all days
- USB pen drive for softwares (> 1 GB)

Deliverables

- Certificate of participation
- Free software
- Hands-on Arduino Uno
- Soft-copy of manual



Coordinator

Professor Arijit Chowdhuri

Conveners

Dr. V. Bhasker Raj, Dr. Sanjay Kumar

Time: 09.30 a.m. to 03.30 p.m.

VENUE: Laboratory - III, Department of Physics, Acharya Narendra Dev College, (University of Delhi), Govindpuri, Kalkaji, New Delhi - 110 019



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

NAAC ACCREDITATION GRADE - 'A' | NIRF RANK-20

Department of Chemistry

Under the aegis of DBT Star Scheme and IQAC



Analytical Laboratory Techniques

Date: 25-29th Oct. 2021

Time: 12:00-5:00 PM

Venue – Department of Chemistry
Laboratory No. 4

Resource Person

Prof. Sunita Hooda

Dr. Geetu Gambhir

Dr. Shallu Sachdeva

Drashya

Aayushi Jain

Prof. Ravi Toteja

PATRON

Prof. Sunita Hooda

DBT Coordinator

Dr. Geetu Gambhir

Convenor

Dr. Shallu Sachdeva

Co-Convenor



FOSS Club

Department of Computer Science
& Internal Quality Assurance Cell
(Under the aegis of DBT star college scheme 2021-22)

Organizes
A 5-Day Online
Workshop On

Face Recognition

Using Python

Part I



Dr. Xavier Chelladurai
(Director and Professor,
Christ Human Resource Center)

Prof. Ravi Toteja
(Institution DBT Star Scheme
Co-ordinator, Officiating Principal)

Dr. Harita Ahuja
(Department DBT Star Scheme
Co-ordinator)

Dr. Sunita Narang
(Teacher-In-Charge)

Dr. Sharanjit Kaur
(Event Convener and
Convener of FOSS Club)

Ms. Gunjan Rani
(Event Co-Convener and
Member of FOSS Club)

26 - 30 October
Page No. 307

2:00 - 4:00 PM

[Click here to Register: t.ly/Wn6C](https://t.ly/Wn6C)

Workshop Schedule

**2.00 PM to 3.00
(Theory)**

**Introduction to Face
Recognition, Mathematical
Techniques used, Face
Recognition Algorithms**

**3.00 PM to 4.00 PM
(Hands-on Lab)**

**Download and
Installation of Anaconda,
Spyder, Face Recognition
Python Library. Test if it
is working.**

**Tuesday
26 Oct 2021**

**Load a Face photo, Size
of matrix, Python Image
Library (PIL), Display
Face using PIL**

**Wednesday
27 Oct 2021**

**Lab 1: Load a photo and
display
Lab 2. Load your family
Group photo and display**

**Face Detection and Face
Locations.**

**Thursday
28 Oct 2021**

**Lab 3: In a Group photo,
locate the Faces and mark
with Rectangle
Lab 4: Write a label on the
faces detected in a group
photo**

**Face Signature/ Face
Encodings**

**Friday
29 Oct 2021**

**Lab 5: Resemblance of
Faces for a sample set
of photos**

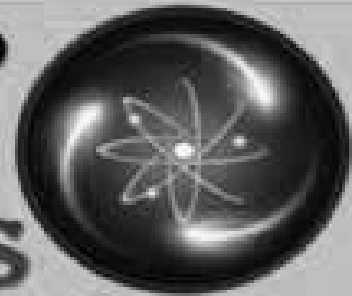
**Face Distance Function,
Find the Resemblance of
Faces**

**Saturday
30 Oct 2021**

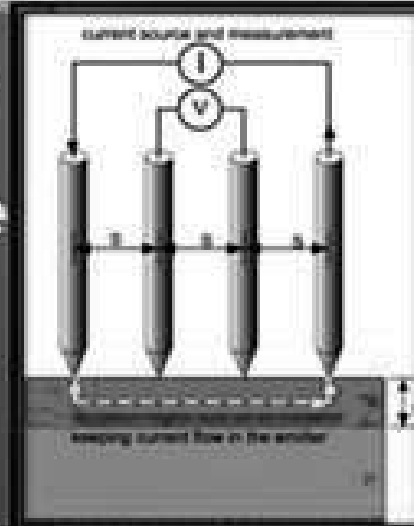
**Lab 6: Daughter and
Mother Resemblance
detection program**



Hands – on workshop on MODERN PHYSICS

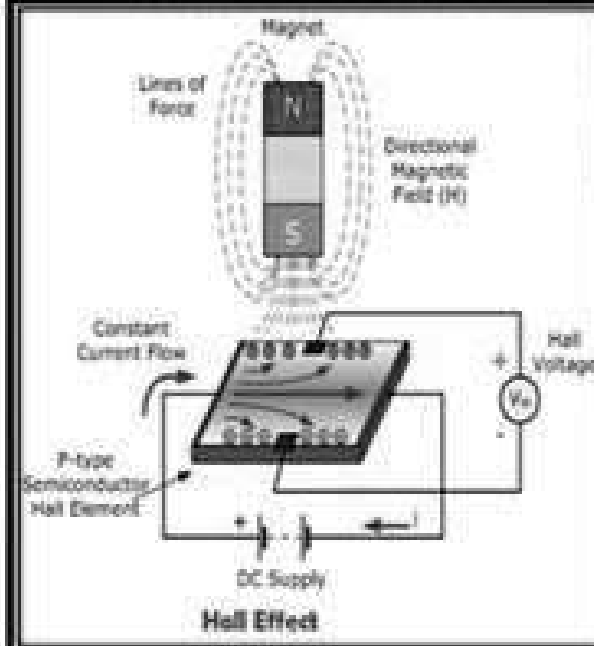
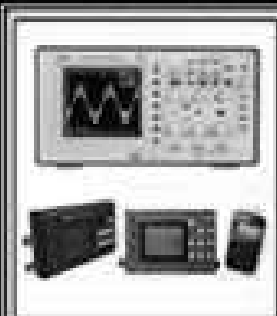


organized by
Department of Physics and Internal Quality
Assurance Cell (IQAC)
Acharya Narendra Dev College
(University of Delhi),
[under the aegis DBT STAR College scheme]
10 – 17 November 2021



Time: 09:30 a.m. to 03:30 p.m.

VENUE: Laboratory – I&IV, Department of Physics, Acharya Narendra Dev
College, (University of Delhi), Govindpuri, Kalkaji, New Delhi - 110 019



Coordinator
Prof. Arijit Chowdhuri

Conveners
Dr. Ambika & Dr. Siddhartha

6th

Annual International E-Conference of

Indian Network for Soil Contamination Research (INSCR)

Page No. 310

in association with

Department of Zoology (DU), Acharya Narendra Dev College (DU),
Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU),
PG Department of Zoology (MU), Maitreyi College (DU), Ramjas College (DU), Sri
Venkateswara College (DU), C.M.P. College (AU) & PhiXgen Pvt. Ltd., Gurugram

"Microbes in Sustainable Development"

For UG/ PG/ Ph.D. Students

WORKSHOP

ISME

**"Hands-on to Computational Biology for
(Meta) Genomics Analysis"**

Computational Biology for Beginners

14th November 2021

**Protein
Modelling**

**03
Sequence
Alignment
& Phylo-
genetic
Analyses**

MODULE 4

MODULE 3

MODULE 2

MODULE
1

**(Meta) Genome
Assembly &
Annotations**

**Interactive
Lecture
Sessions**

**01
Introduction
to Linux**

For more details & registration visit:

<http://econference.inscr.co.in/>

Page No. 310

in association with

Department of Zoology (DU), Acharya Narendra Dev College (DU),

Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU),

PG Department of Zoology (MU), Maitreyi College (DU), Ramjas College (DU),

Sri Venkateswara College (DU), C.M.P. College (AU) & PhiXgen Pvt. Ltd.



"Microbes in Sustainable Development"

15th November 2021

WORKSHOP

"Art of Scientific Writing and Communication"

Components of
Manuscript

Where to begin and Where
to end

Framing a rebuttal
letter

Targeted response
letter

Plagiarism

The art of scientific writing is essential for effective content development.

The clarity of concept along with the precise use of words/phrases are required to communicate research with the scientific fraternity. This session aims to target the aspiring students and researchers from India to improve their scientific writing techniques by adhering to accurate expression and clarity of concept. The purpose of this workshop is to alleviate the mystique impact of art of scientific writing and communication.

For more details & registration visit:

<http://econference.inscr.co.in/>



ACHARYA NARENDRA DEV COLLEGE

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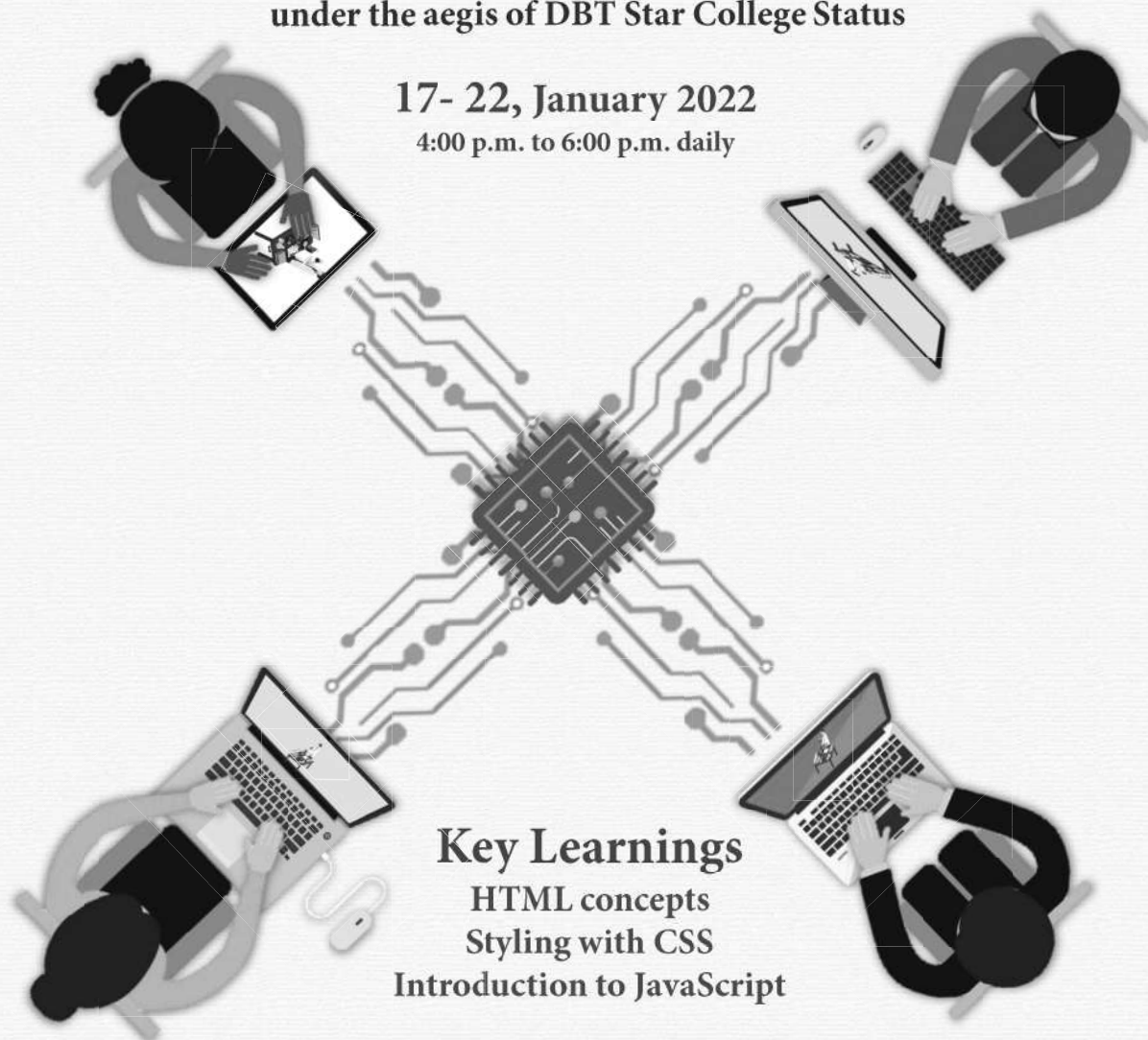
organizing one-week online bootcamp for

V-Lab Development

under the aegis of DBT Star College Status

17- 22, January 2022

4:00 p.m. to 6:00 p.m. daily



Key Learnings

HTML concepts

Styling with CSS

Introduction to JavaScript

Professor Ravi Toteja
Patron

Dr Sanjeeta Rani
Dr Pooja Bhagat
Professor Seema Makhija
Convenors

Dr Sumit Sahni
Dr Vineet Kr Singh
Nodal Officers
(Virtual Labs @ANDC)

Organizing Committee: Dr Rahul Dev, Mr Abhay Pratap Singh

Resource Persons: Ayush Mishra, Vaibhav Thapliyal, Yash Virmani, Avaniya Tyagi

Register at: <https://forms.gle/qnmuT3Az1vFAMFrr6>



One-week online bootcamp for V-Lab Development

SCHEDULE

17- 22, January 2022 | 4:00 p.m. to 6:00 p.m. daily

- Day-1: 17th Jan

Event	Timeline
Welcoming address by Professor Ravi Toteja, Officiating Principal	4:00 to 4:04
Introduction to V-Lab by Dr. Sumit Sahni	4:10 to 4:25
Animation Tutorial by Mr. Yash Virmani and Ms Avanija	4:25 to 5:30
Break	5:30 to 5:35
VS code setup and Web chit chat by Mr Ayush and Mr Vaibhav	5:35 to 6:20

Ayush and Vaibhav take over the event from here,

- Day-2: 18th Jan

Event	Timeline
Recap of Day 1	4:00 to 4:05
HTML (History and features)	4:05 to 5:00
Tags in HTML	
Head Title and Doctype tags	
Body/Heading/Paragraph with CSS	5:10 to 6:00
Special characters in HTML (sup, sub, b, strong tags)	

- Day-3: 19th Jan

Event	Timeline
Lists in HTML with CSS	4:00 to 5:00
Images/Videos with CSS	
Linking in HTML- Internal/External Links	
Mailto Tag	5:10 to 6:00
Tables in HTML	

- Day-4: 20th Jan

Event	Timeline
HTML Class and Id	4:00 to 5:00
Header nav footer sections	
CSS Animations	
Making Nav-Bar	5:10 to 6:00
Making sections	
Making footers	

- Day-5: 21st Jan

Event	Timeline
Introduction to JavaScript	4:00 to 5:00
Insight of console.log(var)	
JS objects/elements	
Event Listeners in JS	5:10 to 6:00
Animations using JS	
Playing around with DOM elements	
Project briefing	

- Day-6: 22nd Jan (Project-day)

Event	Timeline
Intake of Queries	4:00 to 5:20
Fixing your Bugs (if any)	
Evaluation of results	
Open stage for talks	5:20 to 5:40
Summary of Workshop	5:40 to 6:00
Vote of Thanks	



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' | NIRF 2021 ALL INDIA RANKING - 20



DEPARTMENT OF COMMERCE BODHINI - AERC

UNDER

ACE THE SKILL WEEK

PRESENTS



Canva

DR. SURINDER KAUR
(ASSOCIATE PROFESSOR)



Canva

MR. AYUSH GOYAL
(JOINT SECRETARY, BODHINI)



FEBRUARY 4-6, 2022
4PM ONWARDS



GOOGLE MEET

Student Coordinators : Malika (7011856149) & Amandeep (9891784277)



SPIE. STUDENT CHAPTER
UNIVERSITY OF DELHI AT ACHARYA NARENDRA DEV COLLEGE

SPIE Student Chapter University of Delhi Acharya Narendra Dev College with IQAC and DBT STAR College presents

Full STACK Web Development using

MERN

Register Now

A five day Hands-on online workshop with a two hours session each day

Benefits of Attending Seminar / Workshop / FDP

- Workshop taken by Exceptionally Qualified and Professional Trainers actively involved in Development.
- Real time Exercises and Practical.
- Industry Standard Software Used for Training.

Requirements from our side during the session

1. Laptop
2. Wi-Fi Internet (Must)

Teacher Coordinators :

Prof. Amit Garg
Dr. Ravneet Kaur

Student Coordinators :

Ms. Shruti Yadav (8577827574)
Mr. Devesh Yadav (9305528116)

Industry Partner :

BRAIN MENTORS PVT. LTD

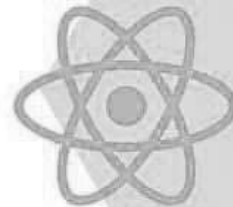


- Free for SPIE members
- Rs. 50 for ANDC students
- Rs. 200 for non ANDC students



mongoDB

express JS



React



Will Be Held On

4 PM -6 PM
5th March to 9th March, 2022

Google Meet
Acharya Narendra Dev College,
University of Delhi

CLICK TO REGISTER



SPIE. www.spieandc.org





ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)

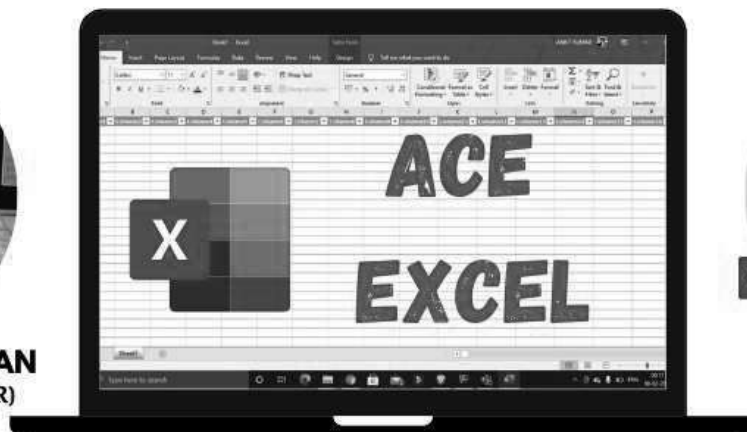


NAAC ACCREDITATION GRADE 'A' | NIRF 2021 ALL INDIA RANKING - 20

DEPARTMENT OF COMMERCE BODHINI - AERC UNDER **ACE THE SKILL WEEK** PRESENTS



DR. SHALU MAHAJAN
(ASSOCIATE PROFESSOR)



MR. TARUSH BAJRA
(TREASURER, BODHINI)



MARCH 7 - 9, 2022
12 PM ONWARDS



SEMINAR HALL
ANDC

STUDENT COORDINATORS: ANSHIKA (9818723582) & KARTIK (9999717722)



THE CHEMICAL SOCIETY
Department of Chemistry

Under the Aegis of DBT Star Scheme and IQAC

Page No. 34



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

NAAC ACCREDITATION Grade 'A' | NIRF RANK - 20

ABHIKRIYA

presents

4-DAYS WORKSHOP

ON

Exploring and understanding Computational Chemistry using
Gaussian : molecular builder and visualization tool

Open for Faculty, Science Undergraduates and Research Scholars

Last date to register is 5th March 2022

No registration Fee

Objectives

Introduction to Computational Chemistry, Geometry or Structure Optimization: stability, Dipole Moment & Solubility, Frequency (IR Spectrum), Visualization of Types of Vibrational Modes (Stretching vs Bending), Raman Spectrum Calculation, NMR Spectrum Calculation, Excited states and UV spectrum Calculation, Visualization of Types of Molecular Orbitals: HOMO vs. LUMO, Interaction Energies, Equilibrium and Transition State Structures, Excited States (Singlet and Triplet) Calculation: Jablonski Diagram, Orbital Contribution, Electron & Hole Density Distribution Maps, Basics of Molecular Docking, Software's Installation on Windows, Online Database Exploration, Docking studies: Protein-Ligand interaction (Docked structure, Binding Energy) using Autodockwise software.



Invited Speaker

Dr Nikhil Aggarwal

Director, Centre of Advanced
Computational Chemistry Studies,
New Delhi (ACC), Assistant
Professor, School of Basic Sciences
and Research, Sharda University

Register Now :

<https://forms.gle/v9jXKLp9MUUSmfrv8>

DATE: 7 - 10 March , 2022

TIMING: 1:00 PM - 3:00 PM

VENUE: GOOGLE MEET

Prof. Ravi Toteja
PATRON

Prof. Sunita Hooda
DBT Coordinator

Dr. Geetu Gambhir
Convenor

Dr Dinesh Kumar Arya
Coordinator

Dr. Pragati Malik
Co-Convenor
Page No. 317

Student Coordinator: Prajjwal Akash(9709661418) , Isha Gupta(9627365979)

Acharya Narendra Dev College University of Delhi

Page No. 318

ACCREDITED 'A' GRADE BY NAAC -- Score 3.31

NIRF 2021 RANKING-20 | DBT STAR COLLEGE

<https://www.andcollege.du.ac.in/>

FOSS Club

Department of Computer Science

& Internal Quality Assurance Cell

(Under the aegis of DBT Star College Scheme 2021-22)

Organize
A Workshop On

Let's Talk DevOps



11th, 12th, & 13th March 2022

10:00 AM - 12:00 PM

[Link to Register!](#)

Mr. Shailesh Thakur

(Sr. DevOps Engineer,
o9 Solutions Inc)



Prof. Ravi Toteja

(Institution DBT Star Scheme
Coordinator, Officiating Principal)

Dr. Harita Ahuja

(Department DBT Star
Scheme Coordinator)

Dr. Sharanjit Kaur

(Foss Club Convener)

Dr. Sunita Narang

(Teacher-In-Charge)

Ms. Priyanka Sharma

(Event Convener)

Mr. Mahesh Kumar

(Event Co-Convener)

11th March (Friday)

1. DevOps Overview
2. Linux Fundamentals
3. Virtual Machines
4. Cloud Overview
5. SCM Fundamentals
6. Setting up playing Environment
7. Create your first project
8. Containers Overview
9. Virtual Machines and Containers
10. Introduction to Linux Containers



12th March (Saturday)

1. Demo on Linux Containers
2. Setting up play with Docker
3. Getting used to Docker
4. Create a sample app in any language
5. Host your application in Docker
6. Introduction to Configuration Management
7. Ansible Overview
8. Create a sample play in Ansible

13th March (Sunday)

1. CI/CD
2. Jenkins Overview
3. Monitoring Overview
4. Logging Overview
5. Kubernetes Intro
6. Intro to k3s
7. Create Pods and Deployments
8. Introduction to IaC
9. Wrap up the talk !!!!





SPIE. STUDENT CHAPTER
UNIVERSITY OF DELHI AT ACHARYA NARENDRA DEV COLLEGE

SPIE Student Chapter University of Delhi at Acharya Narendra Dev College and Department of Electronics under DBT Star College and IQAC presents

LEARNING HOLOGRAPHY

Click to Register



A ONE DAY OFFLINE WORKSHOP

14 March

- Free for SPIE Students
- ₹ 50 for ANDC Students
- ₹ 300 for Other Students

Starts at 10:00 a.m.

E-certificates will be provided after the successful completion of the workshop.

Student Coordinators :
Shruti Yadav (8577827574)
Devesh Yadav (9305528116)



Teacher Coordinators :
Prof. Amit Garg
Dr. Ravneet Kaur

Acharya Narendra Dev College,
University of Delhi



SPIE. www.spieandc.org



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' | NIRF 2020 ALL INDIA RANKING - 18

Presents

Training Workshop & Demonstration of Lab Equipments for Teaching and Non-Teaching faculty

One day hands on workshop will be held on March 23, 2022
Demonstration organised in collaboration with Industry partner
Vijayanta Electronics
28, Dr. Baldev Singh Marg, Civil Lines, Roorkee, Uttarakhand 247667



Date :
March 23, 2022

PATRON

Prof. Ravi Toteja

TEACHER COORDINATOR

Prof. Amit Garg

DBT STAR COORDINATOR

Dr. Ravneet Kaur

SPIE. STUDENT CHAPTER
UNIVERSITY OF DELHI AT ACHARYA NARENDRA DEV COLLEGE

SPIE Student Chapter University of Delhi at Acharya Narendra Dev College & Department of Electronics, DBT Star College and IQAC presents



Offline Workshop



One-day workshop on
ARDUINO
and
SENSOR INTERFACING

E-certificates will be provided to all the successful participants

DATE
26 March 2022

TIME
10 am onwards

VENUE
Acharya Narendra Dev College, University of Delhi

Industry Partner:
Touch Techno

Teacher Prof. Amit Garg
Coordinators Dr. Ravneet Kaur

Student Shruti Yadav: 8577827574
Coordinators Devesh Yadav: 9305528116

Register here



Registration fee:
SPIE members: Free
ANDC students: ₹50
Non-ANDC students: ₹300

SPIE. www.spieandc.org





ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)



NAAC ACCREDITATION GRADE 'A' | NIRF 2021 ALL INDIA RANKING - 20

DEPARTMENT OF COMMERCE BODHINI - AERC

& Internal Quality Assurance Cell

UNDER

ACE THE SKILL WEEK

PRESENT



DR. JITENDER GOEL
(ASSISTANT PROFESSOR)



MR. ANKIT KUMAR
(PRESIDENT, BODHINI)



APRIL 6-8, 2022
11 AM ONWARDS



SEMINAR HALL
ANDC

DR. SURINDER KAUR
(CONVENOR, BODHINI)

PROF. SARITA KUMAR
(CONVENOR, IQAC)

DR. SHALU MAHAJAN
(TIC, COMM. DEPTT.)

PROF. RAVI TOTEJA
(OFFICIATING PRINCIPAL)

STUDENT COORDINATORS: MALIKA KHANNA (7011856149) & LAKSHYA SABHARWAL (8920974877)



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC WITH SCORE OF 3.31

DBT STAR STATUS COLLEGE



Department of Zoology
Under the aegis of
IQAC & DBT STAR COLLEGE



organizes

Hands on Workshop
Tools and Techniques of

Biotechnology



April 7-8, 2022
9:00 am - 5:00 pm

PATRON

Prof. Ravi Toteja

COORDINATORS

Prof. Monisha Khanna
Prof. Seema Makhija

CONVENOR

Dr. Monica Misra
(TIC, Zoology)

[Click Here To Register](#)



Organizing Team

Prof. Sarita Kumar
Mr. Ravindra Kumar Sagar
Dr. Aparna Sharma
Dr. Sweety Shrimali
Dr. Rahul Dev
Dr. Neelgagan Singh

Dr. Vineet Girdharwal
Dr. Shrankhla
Dr. Bhumika Chauhan
Dr. Aditi Dubey
Dr. Twinkle Batra
Mr. Munendra Kumar
Ms. Swati Maurya
Ms. Jyoti Dagar
Ms. Harsha

Mr. Sachchidanand Mishra
Mr. Tara Dutt
Mr. Pramod Kumar Bhatt
Mr. Jai Prakash
Mr. Vikas Sharma

Mr. Sagar Kumar Meshram
Mr. Sanjeev Kumar
Mr. Mahesh Kandpal
Mrs. Sumitra Devi
Mr. Harshal Vishnoi
Mrs. Kanika Chadda



Schedule



Day 1

April 07, 2022

10:00AM-11:00AM: Restriction Digestion of Plasmid DNA

Venue: Zoology Lab I & II

Resource Person: Prof Monisha Khanna

Dr Aditi Dubey

Dr Vineet Girdharwal

Ms Harsha

Mr Munender Kumar

11:00AM -12:00PM: Polymerase Chain Reaction

Venue: Zoology Lab I & II

Resource Person: Prof Seema Makhija

Dr Neelgagan Singh

Ms Swati Maurya

Ms Jyoti Dagar

12:00 PM -1PM: Agarose Gel Electrophoresis

Venue: Zoology Lab I & II

Resource Person: Dr Rahul Dev

Ms Harsha

Mr Munender Kumar

Ms Swati Maurya

Ms Jyoti Dagar

1:00PM-1:30 PM: Lunch



Schedule

Page No. 327



1:30PM-4:00PM: Southern Blotting

Venue: Zoology Lab I & II

Resource Person: **Prof Ravi Toteja**

Prof Seema Makhija

Dr Neelgagan Singh

Dr Vineet Girharwal

Ms Swati Maurya

Ms Jyoti Dagar

Ms Harsha

Day 2

April 8, 2022

10:00AM-1:00PM : Haemoglobin Estimation and Measurement of Blood Pressure

Venue: Zoology Lab I & II

Resource Person: **Mr Ravinder Kumar Sagar**

Dr Rahul Dev

Dr Bhumika Chauhan

Dr Twinkle Batra

1:00PM-1:30 PM Lunch

1:30PM-4:00PM: **Visit to Research Laboratories**

Insect Vector and Pests Laboratory

Anti-mycobacterial Drug Discovery Laboratory

Microbial Technology Laboratory

Ciliate Biology Laboratory

Mushroom Culture Facility

Coordinators: **Dr Aparna Sharma**

Dr Sweety Shrimali

Dr Shrankhla

Page No. 327



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

Govindpuri, Kalkaji

New Delhi 110019

Contact Us

principal@andc.du.ac.in

[url: https://www.andcollege.du.ac.in/](https://www.andcollege.du.ac.in/)



Department of chemistry
UNDER THE AEGIS OF DBT STAR SCHEME AND IQAC



organizes

Hands-on Workshop for
Non-teaching Staff



" THE CALIBRATION AND STANDARDIZATION OF LABORATORY EQUIPMENTS AND GLASSWARES "

Resource Person: Dr. Daya Bhardwaj

Date: 20 April, 2022

Time: 10:00 am - 01:00 pm

Venue: Physical Chemistry Laboratory

Department of Chemistry

ACHARYA NARENDRA DEV COLLEGE



PROF. RAVI TOTEJA
Patron

PROF. SUNITA HOODA
DBT Coordinator

DR. DINESH KUMAR ARYA
TIC (Chemistry)

DR. GEETU GAMBHIR
Convenor

DR. KAVITA MITTAL
Co-convenor

Student Coordinator: DHANANJAY (8360601931)



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' / NIRF 2020 ALL INDIA RANKING - 18

DEPARTMENT OF COMMERCE

In collaboration with
INTERNAL QUALITY ASSURANCE CELL

Organises workshop on

"APPLICATION OF COST ACCOUNTING STANDARDS
IN THE PREPARATION OF COST STATEMENT"



Date: APRIL 20, 2022

Time: 10:30 AM Onwards

Venue: SEMINAR HALL

Resource Person

Prof. Rajiv Kumar Goel

Department of Commerce

Delhi College of Arts & Commerce

University of Delhi

Ms. Anuradha Sarin
(Co Convenor)

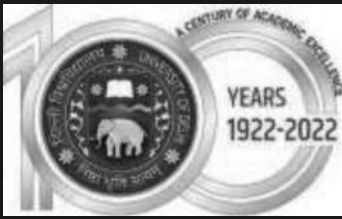
Dr. Sandeep Kumar Goel
(Convenor)

Dr. Shalu Mahajan
(TIC-Comm. Deptt.)

Dr. Sada Nand Prasad
(Convenor-IQAC)

Prof. Ravi Toteja
(Officiating Principal)

Student Coordinator : Ved Vaibhav Deo - 9354994167, Tanishq Bahl - 9136002121



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC

NIRF 2021 RANKING -20

Under the aegis of DBT STAR Scheme and IQAC

Department of Zoology

organizes a

Hands-on Training for Support Staff

on

Tools in Modern Biology

Date: April 21, 2022 Time: 11:00am–3:00pm

Microscope

Autoclave

Laminar Flow

UV-VIS Spectroscopy

PATRON

Prof. Ravi Toteja

CONVENORS

Prof Seema Makhija

Dr Monica Misra

COORDINATORS

Dr Rahul Dev

Dr Neelgagan

Mr Vineet Girdharwal

Mr Abhay P Singh



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ACHARYA NARENDRA DEV COLLEGE



UNIVERSITY OF DELHI



NAAC ACCREDITATION GRADE - 'A' | NIRF RANK - 20



Under the Aegis of DBT Star Scheme and IQAC

DEPARTMENT OF CHEMISTRY

Organizes

Hands on Workshop
For Undergraduate Students

Introduction to New Experiments

📍 Venue: Chemistry Laboratory - III, IV

📅 Date: 21st April, 2022

🕒 Time: From 9:30 AM to 4:00 PM

Prof. Ravi Toteja
PATRON

Prof. Sunita Hooda
CONVENOR

Dr. Dinesh Kumar Arya
TEACHER-IN-CHARGE

Dr. Pooja Bhagat

Dr. Neeti Misra

Dr. Pragati Malik

Dr. Kavita Mittal

Student Coordinator - Meghana Bisht (8006791945)



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC

NIRF 2021 RANKING -20

Under the aegis of DBT STAR Scheme and IQAC

Department of Biomedical Science

organizes a

Hands-on Training for Support Staff

on

Tools in Modern Biology

Date: April 21, 2022 Time: 11:00am–3:00pm

pH meter

PATRON

Prof. Ravi Toteja

PCR

CONVENORS

Dr Archana Pandey

Electrophoresis unit

COORDINATORS

Dr Satendra

Dr Ritu Khosla

Dr Rimpay Kaur



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' | NIRF 2020 ALL INDIA RANKING - 18

DBT STAR College Scheme

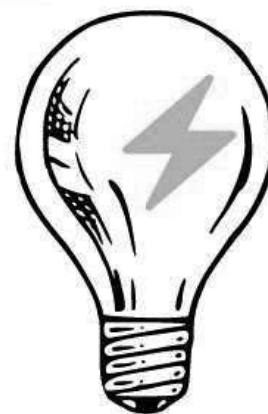
Presents

Training workshop and demonstration of Control Lab with software and data acquisition and Universal Dev Board with FPGA and CPLD for Teachers

One day hands on workshop will be held
on April 25, 2022
Demonstration organized in collaboration
with Industry partner M/s Silicom Electronics



Date :
April 25, 2022



PATRON

Prof. Ravi Toteja

TEACHER COORDINATOR

Prof. Amit Garg

DBT STAR COORDINATOR

Dr. Ravneet Kaur

ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC

NIRF 2021 RANKING -20

Under the aegis of DBT STAR Scheme and IQAC

Department of Botany

organizes a

Hands-on Training for Support Staff

on

Tools in Modern Biology

Date: April 26, 2022 Time: 11:00am–3:00pm

Microscopes

**Laminar Flow & Bio Safety
Cabinet**

Spectrophotometer

PCR and Centrifuge

PATRON

Prof. Ravi Toteja

CONVENORS

Prof Charu K Gupta

Dr Rashmi Sharma

COORDINATORS

Dr Sumit Sahni

Dr Vineet Kumar Singh

Dr Manoj Kumar Singh



organizes

V-Lab Boot Camp 2.0

KEY LEARNINGS

JAVASCRIPT LEVEL 2.0

PROGRAMMING METHODOLOGY

APPLICATION DEVELOPMENT

27 June 2022
to
1 July 2022

TIMINGS: 1:00 PM - 3:00 PM

VENUE: WEB CENTRE

PROF. RAVI TOTEJA
(PATRON)

PROF. SEEMA MAKHIJA
DR. SUMIT SAHNI
DR. VINEET KUMAR SINGH
NODAL COORDINATORS
(V-LAB @ ANDC)

ORGANIZING COMMITTEE: MR. ABHAY PRATAP SINGH
RESOURCE PERSONS: AYUSH MISHRA, VAIBHAV THAPLIYAL



Acharya Narendra Dev College
University of Delhi



Department of Electronics
DBT STAR COLLEGE

Digital Transformation and its impact on the future after COVID-19



WEDNESDAY

07
JULY

4:00 to
5:00 p.m.

Dr. Amita Kapoor

ASSOCIATE PROFESSOR

SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES

Meet : <http://meet.google.com/vhf-ikng-stx>

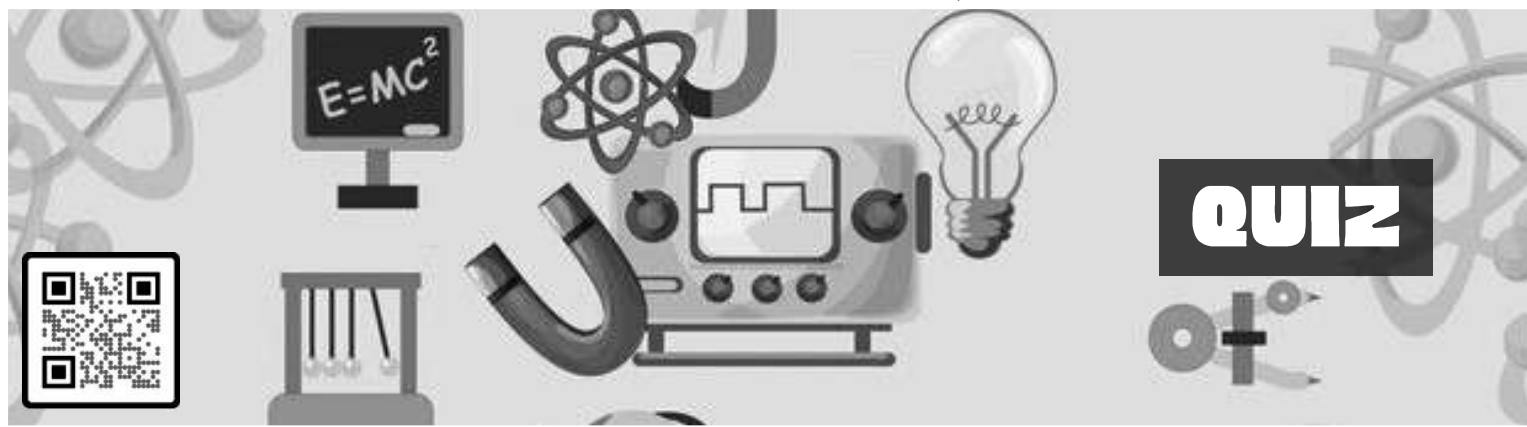


Acharya Narendra Dev College
University of Delhi

PHYSENTROPY

THE PHYSICS SOCIETY PRESENTS

NEBULA 2022



QUIZ



DANCE



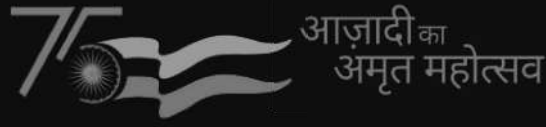
RANGOLI



ARM WRESTLING



3 LEGGED RACE



ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI

PHYSENTROPY

THE PHYSICS SOCIETY PRESENTS

NEBULA

Rangoli - Making Competition

VENUE :
IN FRONT OF PHYSICS DEPT.

THEME - PHYSICS

DATE : 29-03-2022

TIME : 09:00 HRS



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

PHYSENTROPY

THE PHYSICS SOCIETY PRESENTS

NEBULA

**THREE - LEGGED
RACE**

A three-legged race is a running event involving pairs of participants running with the left leg of one runner strapped to the right leg of another runner. The objective is for the partners to beat the other contestant pairs to the finish line.



REGISTER HERE



DATE : 29-03-2022

TIME : 10:00 HRS

VENUE :

LAWN

(IN FRONT OF PHYSICS DEPT.)



PHYSENTROPY

NEBULA

Presents



Lecture on

“ An Introduction to
Astronomical
Observations ”

Guest Speaker

Dr. Parminder Singh

Assistant Professor,
Dronacharya Government College,
Gurugram.

Date

29th March 2022

Time

11:00 AM

Venue

Seminar Hall



75 आज़ादी का
अमृत महोत्सव

Page No. B42



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

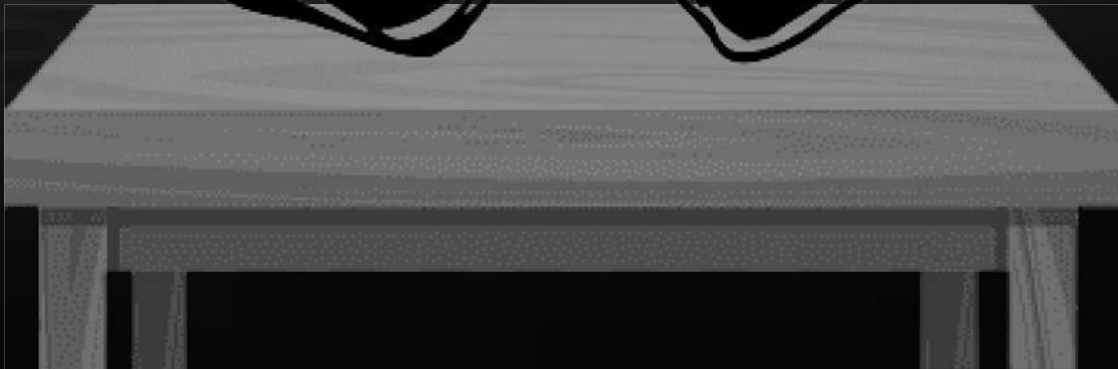
PHYSENTROPY

THE PHYSICS SOCIETY PRESENTS

NEBULA

ARM WRESTLING

FOR TEACHERS



VENUE :
SEMINAR HALL

DATE : 29-03-2022
TIME : 12:30 HRS



Acharya Narendra Dev College
University of Delhi

NAAC ACCREDITATION GRADE 'A' | NIRF - 2021 ALL INDIA RANKING 20

Physentropy

THE PHYSICS SOCIETY

Presents

NEBULA '22

Departmental Fest of Department of Physics

Bohr Ring Dance



Venue : Seminar Hall

Date : 29th March, 2022

Time : 14:30 Hrs



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

PHYSENTROPY

THE PHYSICS SOCIETY PRESENTS

NEBULA

WIN WITH WIT

QUIZ

REGISTER HERE



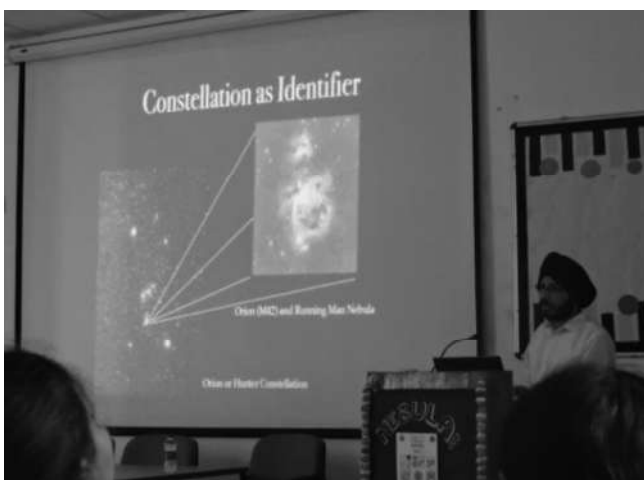
SUBJECT - PHYSICS

**VENUE :
SEMINAR HALL**

DATE : 29-03-2022

TIME : 14:30 HRS

Photographs of the Event:





DEPARTMENT OF PHYSICS

ACHARYA NARENDRA DEV COLLEGE (University of Delhi)

under the aegis of
DBT Star College Scheme

in collaboration with

Office of the Controller General of Patents, Designs & Trade Marks

Department for Promotion of Industry and Internal Trade

Ministry of Commerce & Industry, Government of India



under the initiative of the Government "Azadi ka Amrit Mahotsav" &
National Intellectual Property Awareness Mission

Organizing

Intellectual Property Rights Awareness Program

(online via 'WebEx' (Cisco) platform)

on 19th January (Wednesday), 2022
from 10:15 a.m. onwards

CGPDTM, Govt. of India
will provide e-certificate
to all the participants

Registration
Link

<https://forms.gle/LnTgd4vkZQwXsgSw9> or scan the QR code

Cisco Webex
Link

<https://trademarkdelhi.webex.com/trademarkdelhi/j.php?MTID=m679cb6b2863cea3f1da6f54dc44aed8f>

Meeting number (access code): 2518 083 4140

Meeting password: hmXP8C9JAE5

No Registration
Fee

Speakers

Mr. Abhishek Kr. Pandey Dr. Sunil Kumar
Sr. Examiner of TM and GI Examiner of TM and GI

Mr. Devesh Kr Lodhi Mr. Rajkumar Meena
Examiner of Patents Examiner of Patents
& Designs & Designs

Dr. Vinita Soyal
Examiner of Patents
& Designs

Organizers

Principal

Prof. Ravi Toteja

Coordinator

Prof. Arijit Chowdhuri

Conveners

Dr. Sanjeeta Rani Dr. Manisha Verma



Cisco Webex Meetings Meeting Info Hide Menu Bar 01:05:34

File Edit Share View Audio & Video Participant Meeting Help

V. Bhasker Raj Me Siya Agarwal Abhishek Pandey (Host) (*) Arijit Chowdhuri V. Bhasker Raj

REQUIREMENTS TO FILE AN ORDINARY APPLICATION

1. Application Fee
 - (Rs. 1000/- for individual/Small entity/Startup and Rs. 4000/- for others)
2. Application Form-I
 - Applicant's full name,
 - Nationality, legal status,
 - Address, address for service in India
 - Class no, name of the article
 - Priority data (if any)
 - Prior registration data (if any)
 - Signature & Date
3. Two sets of Representation illustrating various views of article
4. Power of attorney (if required): Form-21 (Section - 43)
5. Assignment document (if any)
6. Form 24 (if applicant is small entity/Startup)
 - Documentary evidence w.r.t F-24 (For Indian Small Entity/Startup)
 - Affidavit w.r.t F-24 (For Foreign Small Entity/Startup)

Participants (75)

Search

- VR V. Bhasker Raj Me
- AP Abhishek Pandey Host
- AP Abhishek Pandey Cohost
- OT 02_Shweta Tiwari
- OY 03_Ashu Yadav
- AG Aashi gupta
- AM Abhishek Kumar Mandal
- AK Aditi Kumari
- AK Aditya kumar
- A Akshat

Unmute Start video Share

Participants Chat

Type here to search

11°C Mostly sunny ENG IN 10:55 19-01-2022



Hands – on workshop on DIGITAL SYSTEMS & APPLICATIONS WITH MICROPROCESSORS AND MICROCONTROLLERS



organized by
**Department of Physics and Internal
Quality Assurance Cell (IQAC)
Acharya Narendra Dev College**
[under the aegis DBT STAR College scheme]

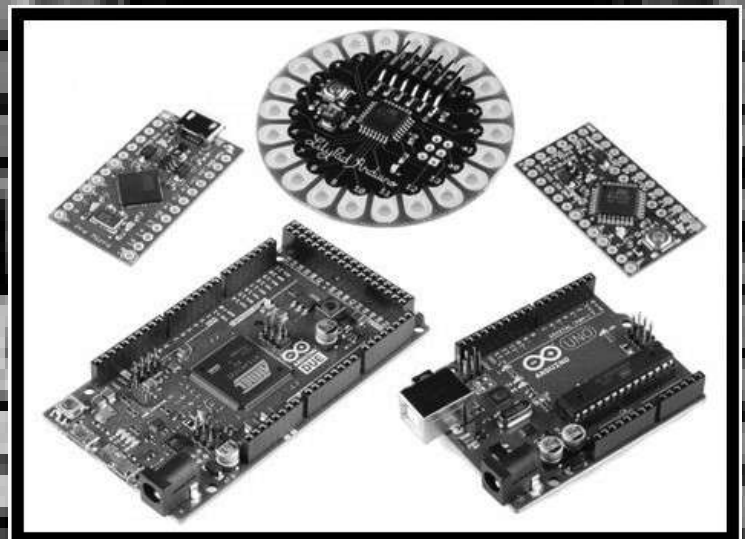
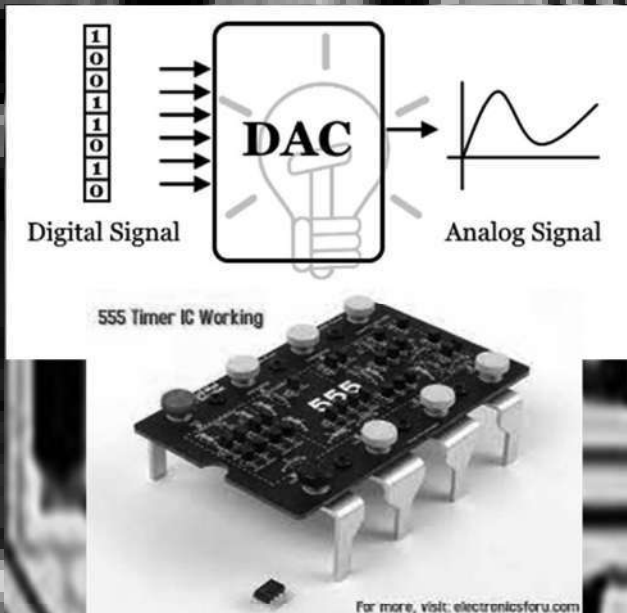
20 – 27 October 2021

Requisites

- Bring your own laptop (Linux/Windows)
- Active participation on all days
- USB pen drive for softwares (> 1 GB)

Deliverables

- Certificate of participation
- Free software
- Hands-on Arduino Uno
- Soft-copy of manual



Coordinator

Professor Arijit Chowdhuri

Conveners

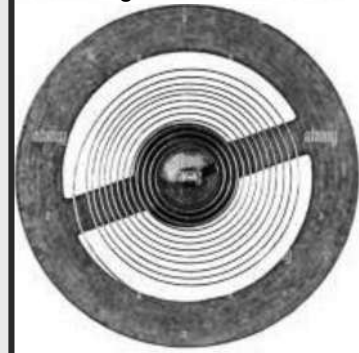
Dr. V. Bhasker Raj, Dr. Sanjay Kumar

Time: 09.30 a.m. to 03.30 p.m.

VENUE: Laboratory - III, Department of Physics, Acharya Narendra Dev College, (University of Delhi), Govindpuri, Kalkaji, New Delhi - 110 019

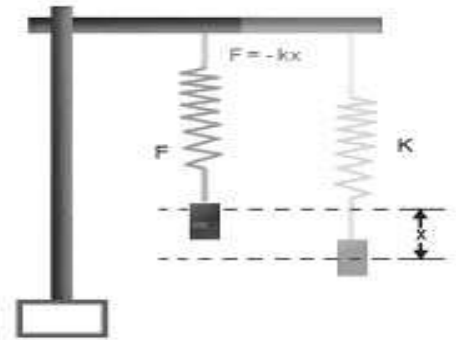


Hands – on workshop on Basic & Contemporary Thermal Physics, Mechanics and Laser Application



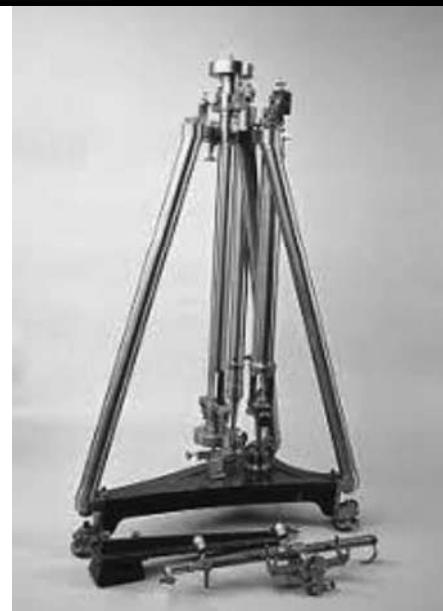
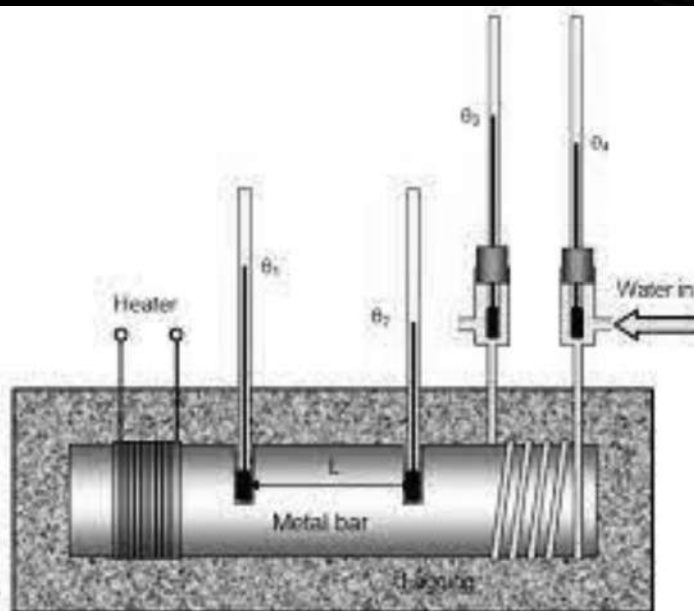
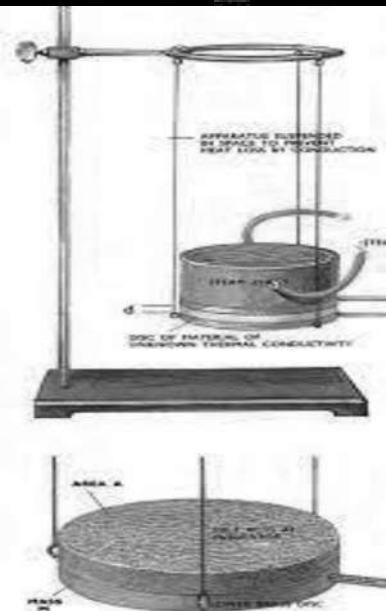
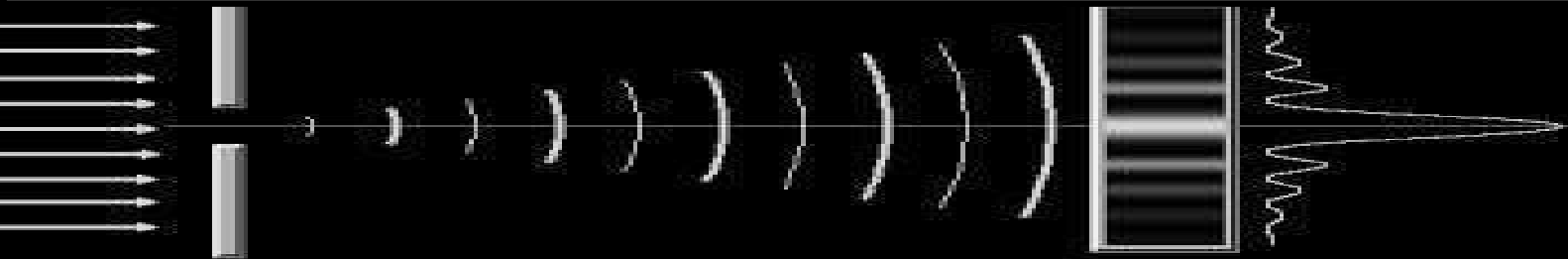
Organized by
Department of Physics and Internal Quality
Assurance Cell (IQAC)
Acharya Narendra Dev College
[under the aegis DBT STAR College scheme]

12 – 19 November 2021



Time: 09.30 a.m. to 03.30 p.m.

VENUE: Laboratory - I & II, Department of Physics, Acharya
Narendra Dev College, (University of Delhi), Govindpuri, Kalkaji,
New Delhi - 110 019



Coordinator
Professor Arijit Chowdhuri
Kumar

Conveners
Dr. Rakesh Kumar Sonker, Mr. Pawan

ACHARYA NARENDRA DEV COLLEGE

(UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' | NIRF 2021 ALL INDIA RANKING - 20

Under the aegis

of

"Internal Quality Assurance Cell"

DEPARTMENT OF COMMERCE

BODHINI - AERC

UNDER

IN CONVERSATION WITH OUR ALUMNI

PRESENTS

A SEMINAR ON

" CAREER OPTIONS AFTER GRADUATION "



RELEASING!

" THE CHRONICLES - VOLUME 2 ISSUE 1 "

MR. NITIN DEVESHWAR

MD, FOUNDER

MANTEC INDIA SECURICOR PVT. LTD.

BATCH OF 2001

📅 ON 1ST, APRIL 2022

🕒 11AM ONWARDS

📍 SEMINAR HALL, ANDC

DR. SURINDER KAUR
(CONVENOR)

MS. SANGEETA RELAN
(CO-CONVENOR)

DR. SHALU MAHAJAN
(TEACHER-INCHARGE)

PROF. RAVI TOTEJA
(OFFICIATING PRINCIPAL)

ANKIT KUMAR (PRESIDENT)

YASH LAMBA (VICE-PRESIDENT)



DEPT. OF BIOMEDICAL SCIENCE

ACHARYA NARENDRA DEV COLLEGE

ACCREDITED 'A' GRADE BY NAAC (SCORE 3.31)

UNDER THE AEGIS OF DBT AND IQAC



INVITES YOU FOR



“CATHEXIS-2022”
ANNUAL SOCIETY FUNCTION

Speaker Ms Anuja Agarwala



Senior Dietitian-AIIMS

Topic-Kitchen -Your health Tool

Date -18th April

Time -11am

Venue- Seminar Room , ANDC

*Dr Ravi Toteja
Principal*

*Dr Sunita Jetly
Teacher-in-Charge*

*Ms Sakshi Rawat
President -BMS*

DEPT. OF BIOMEDICAL SCIENCE
ACHARYA NARENDRA DEV COLLEGE

ACCREDITED 'A' GRADE BY NAAC (SCORES.31)

EVENTS : Talk

Kitchen -Your health Tool;
Speaker Ms Anuja Aggarwal
11:00 am Seminar Hall
1 pm: Release of Biomer'22

Games and Student Coordinators

Heads up

*Yash and Sharika

Murder Mystery;

*Mehak and Shrishti

Quiz-O-Mania

*Deeparati and Harinandna

Whisper Challenge

*Hiya and Himanshi

Faculty

Coordinators

- ❖ Dr Satendra Singh
- ❖ Dr Ritu Khosla
- ❖ Dr Rimpay Kaur

Office Bearers

- ❖ Nikita Gupta
- ❖ Sakshi Sharma
- ❖ Manas Singhal
- ❖ Arpita Singh



ABHIKRIYA



The Chemistry Society Of
ACHARYA NARENDRA DEV COLLEGE

University Of Delhi

NAAC Accreditation Grade 'A' | NIRF RANKING 2021 - #20
Under the Aegis of DBT Star Scheme and IQAC

Paper Presentation

Venue : Seminar Hall
Time : 12:00 - 13:00 Hr



Presents

SYNERGIA' 22

19 April, 2K22

Rangoli Making

Venue : Chemistry Staffroom
Time : 12:00 - 14:00 Hr

Win
Exciting
Prizes

Speaker



Ms Shreya Arora

Content Researcher and
Editorial Researcher in the
Books Marketing and Europa
World Directory teams at
TAYLOR & FRANCIS

Quizomania

Venue : Room 64
Time : 13:00 - 14:00 Hr

LECTURE

**VENUE - SEMINAR HALL
TIME - 10:30 AM**

TREASURE HUNT

Venue : Front Lawn
Time : 14:00 - 15:00 Hr



Prof. Ravi Toteja
PRINCIPAL

Prof. Sunita Hooda
ABHIKRIYA CONVENER

Dr. Dinesh Kumar Arya
TEACHER IN CHARGE

FOR FURTHER QUERIES, PLEASE CONTACT

DHANANJAY - 8360601931 , ANSHUL - 8126358269 , DIPANKAR - 9142281478 , SARTHAK - 8750354405



ACHARYA NARENDRA DEV COLLEGE

(UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' | NIRF 2020 ALL INDIA RANKING - 18

ELECTROBLITZ

Department of Electronics with DBT Star College Scheme and IQAC

Presents

INVITED TALK

MAGNETIC NANO-STRUCTURES BASED
MICROWAVE MONOLITHIC SIGNAL PROCESSING
DEVICES; FABRICATION AND TESTING

● Seminar Hall, Acharya Narendra Dev College

10:00 AM onwards

PATRON

Prof. Ravi Toteja

TEACHER COORDINATOR

Prof. Anju Agrawal

9810215970

TEACHER COORDINATOR

Prof. Amit Garg

9811341037

STUDENT COORDINATOR

Ms. Shruti Yadav

8577827574



PROF. BIJOY KUMAR KUANR

**SPECIAL CENTRE FOR NANOSCIENCE
JAWAHARLAL NEHRU UNIVERSITY**

**19TH
APRIL
2022**

ELECTRONIKA





ACHARYA NARENDRA DEV COLLEGE

University of Delhi

SHASHAKT

The Society for Women Empowerment

in collaboration with

Global Hunt Foundation

Invites you for a talk

on

Menstrual Health And Hygiene

by

Ms. Roshnee Bhowmick

Date- 22nd June 2022

Time 5 pm

Joining Link -



Convenor- Dr Anita Narang

Patron Prof Ravi Toteja





University of Delhi

NAAC Accreditation Grade 'A' || NIRF 2020 AIR 18

Under the aegis of DBT Star College Scheme
presents

e-Webinar

Environmental Hazards of E-waste and Plastic Waste

Date: July 31, 2021

Time: 3:00 PM



Googlemeet Link

meet.google.com/wvc-zcec-bbz

Certificates will be given to all participants.

Patron

Dr Ravi Toteja
Officiating Principal

Convenors

Dr Rashmi Sharma
Dr Archana Pandey
Dr Seema Makhija





ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

ACCREDITED 'A' GRADE BY NAAC- SCORE 3.31

NIRF 2020 ALL INDIA RANKING 18 | "STAR COLLEGE STATUS" BY DBT

College Library organises a Webinar

on

E-RESOURCES OF DELHI UNIVERSITY AND

INFLIBNET NLIST

SPEAKERS:



Dr. Rajesh Singh
University Librarian
D.U.



Dr. AP Yadav
Librarian
Lady Shri Ram College, D.U.

Date: July 31, 2021 (Saturday)

Time: 3 p.m. Onwards

Venue: Google Meet

(Link: meet.google.com/tzr-vutd-doi)



Dr. Ravi Toteja
(Principal)

Dr. Seema Gupta
(Convener)

Namrata Arora
(Librarian)

Organizers:
Library Committee



ACHARYA NARENDRA DEV COLLEGE
(UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' / NIRF 2020 ALL INDIA RANKING - 18

DEPARTMENT OF COMMERCE

BODHINI-Academic Events and Research Committee

in collaboration with

Internal Quality Assurance Cell, ANDC

is organizing a webinar on

"An insight into Currency Derivatives"

Guest Speaker



Ms. SUGANDHA SACHDEVA

Vice President

Commodities & Currency Research at
Religare Broking Limited

Date: 11th Sept, 2021

Time: 1 pm - 2:30 pm

Venue: Google Meet

Register
for
FREE!

RELEASING 2ND EDITION OF "THE CHRONICLES"

Dr. Surinder Kaur

Dr. Shalu Mahajan

Prof. Sarita Kumar

Prof. Ravi Toteja

(Convenor-Bodhini)

(TIC-Comm. Deptt.)

(Convenor-IQAC)

(Officiating Principal)

Page No. 358

Student Coordinators: Tarush Bajra (Joint Secretary)-9268148687 | Ayush Goyal (Coordinator)-8171504723

Acharya Narendra Dev College University of Delhi

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NAAC ACCREDITATION GRADE 'A'-NIRF-2020 ALL INDIA RANKING- 18



E
C
O
C
L
U
B

'PARITANTRA'

Presents



WEBINAR



ON

"Effects of good ozone
and bad ozone on
Human's life"



Dr. Seema Sharma

Assistant professor,

Vivekananda College, University of Delhi.

BBC World News panelist.

Date : 16 sep 2021

Time : 4pm

Venue : Google meet

For further queries
Nikhil : 82875 25576
Vridhi : 70420 05164



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ecoclub_andc

ACTIVITY 12***Celebrating International Microorganism Day as "MICROSPHERE 2021": An International Outreach Program*****Date: 17th Sep, 2021**


ORGANIZERS

CHAIRPERSON
Rup Lal
(NASI Senior Scientist, TERI,
New Delhi &
President, INSCR)

PATRON
Hem Chand Jain
(Principal, DDUC, DU)

COORDINATORS
Shailly Anand
(Convenor, Synapses)

Renu Solanki
(Convenor, Science Foundation)



Jointly organized by

Deen Dayal Upadhyaya College (DU),
Gargi College (DU),
IIT Rorkee,
Kirori Mal College (DU),
Ramjas College (DU),
PG Dept. of Zoology (MU) &
PhiXgen Pvt. Ltd., Gurugram.

in association with

Acharya Narendra Dev College (DU),
Maitreyi College (DU),
Sri Venkateswara College (DU) &
C.M.P. College (AU)



SCIENCE FOUNDATION & SYNAPSES

Celebrates

International Microorganism Day
MICROSPHEREAN INTERNATIONAL
OUTREACH PROGRAM**17th September, 2021**

9:00 a.m. onwards

AN INITIATIVE TO PROMOTE
MICROBIAL LITERACY &
CELEBRATING THE DIVERSITY
& WIDE APPLICATIONS OF
MICROBES

under the aegis of

INDIAN NETWORK FOR SOIL
CONTAMINATION RESEARCH
(INSCR)


EXECUTIVE COMMITTEE:

C. SHEELA REDDY (PRINCIPAL, SVC, DU)
MANDJ KUMAR KHANNA (PRINCIPAL, RAMJAS, DU)
VIBHA SINGH CHAUMAN (PRINCIPAL, RMC, DU)
PRONILA KUMAR (PRINCIPAL, GARGI COLLEGE, DU)
RAVI TOTEJA (PRINCIPAL, ANDC, DU)
HARITMA CHOPRA (PRINCIPAL, MAITREYI COLLEGE, DU)
SNP YADAV DEEN (HEAD, PG DEPT. OF ZOOLOGY, MU)
BRIJESH KUMAR (PRINCIPAL, C. M. P. COLLEGE, AU)

ORGANIZING COMMITTEE:

SEEMA MAKHIJA (ANDC, DU)
ANITA GULATI (DDUC, DU)
SUJATA KHATRI (DDUC, DU)
OM PRAKASH (NCMR - NCCS)
UTKARSH SOOD (TERI)
NIRJARA SINGHVI (PHIXGEN PVT. LTD.)
AJAY SINGH (SVC, DU)
MANSI VERMA (SVC, DU)
KIRAN RANA (DESHBANDHU COLLEGE, DU)
JAYA MALHOTRA (HANSRA) COLLEGE, DU)
PUSHP LATA (RAMJAS COLLEGE, DU)
JASPREET KAUR (MAITREYI COLLEGE, DU)
AESHA NIGAM (SHIVAJI COLLEGE, DU)
ANKITA DUA (SHIVAJI COLLEGE, DU)
ANJALI SAXENA (BCAS, DU)
PRIYA SINGH (DU)
HELJANTHUS VERMA (RAMJAS COLLEGE, DU)
MONA SINGH (PHIXGEN PVT. LTD.)
NITISH KUMAR MAHATO (DDUC, DU)
CHARU TRIPATHI (ALLAHABAD UNIVERSITY)
CHANDNI TALWAR (PHIXGEN PVT. LTD.)

Get in touch
microsphere2021@gmail.com

Interactive Sessions on:

Microbial Literacy: A Global Initiative
The Rise of the Microbe Empire
Microbial garden within you
Microbes and Sustainability
Microbiology: Career Prospects
DNA from your kitchen (Student Session)

SPECIAL ATTRACTION

Microbiology Quiz for School & College
Students

"Celebrating Microbes" Drawing
Competition for K12 students

*Cash Prize & Certificate of Appreciation will be provided to
top scorers

**INTERNATIONAL
MICROORGANISM
DAY**

September 17th is celebrated as the International
Microorganism Day since 2017 to commemorate the
milestone year of 1683 when Antoni van Leeuwenhoek
for the first time wrote a letter to Britain's Royal Society
describing the "animalcules" which he had observed
under the microscope as the first known description of
bacteria.

Let us all take this day as an opportunity to raise
awareness towards the significant contribution of
microorganisms in our lives especially in the present
times when a virus has made the world look even
more negative. These invisible ones are mightier than
one can imagine and hence its the time to make
everyone aware. Microbial Literacy in the society is the
need of the hour if we dream a sustainable future.

WHO CAN ATTEND

School students, Undergraduates, Post-graduates,
Research Scholars, School Teachers, College Teachers,
Researchers, Parents, Family
- Our Society

HOW CAN YOU REGISTER

- No Registration Fees
- Fill in your particulars in the Registration Form:
<https://forms.gle/SbNCz6oL6xKnoq7V7>
- E-certificates shall be provided to all the participants
- Zoom meeting link shall be shared with all the
registered participants



Celebrating
International Microorganism Day

MICROSPHERE

An International Outreach Program

17th September, 2021

An initiative to promote microbial literacy & celebrating the diversity & wide applications of microbes

under the aegis of

INDIAN NETWORK FOR SOIL CONTAMINATION RESEARCH (INSCR)

Jointly organized by

Deen Dayal Upadhyaya College (DU), Gargi College (DU), IIT Rorkee, Kirori Mal College (DU), Ramjas College (DU), PG Dept. of Zoology (MU) & PhiXgen Pvt. Ltd., Gurugram

in association with

Acharya Narendra Dev College (DU), Maitreyi College (DU), Sri Venkateswara College (DU) & C.M.P. College (AU)



PROGRAM REPORT

CHAIRPERSON

Rup Lal (NASI Senior Scientist, TERI, New Delhi & President, INSCR)

COORDINATORS (DDUC)

Dr. Shailly Anand (Convenor – Synapses, Department of Zoology, DDUC, DU)

Dr. Renu Solanki (Convenor – Science Foundation, Teacher In-charge, Department of Zoology, DDUC, DU)

ORGANIZING COMMITTEE (DDUC)

Dr. Sujata Sinha (Department of Botany, DDUC, DU)

Dr. Anita Gulati (Department of Zoology, DDUC, DU)

Dr. Sachin Mittal (Department of Chemistry, DDUC, DU)

Dr. Sujata Khatri (Department of Computer Science, DDUC, DU)

EXECUTIVE COMMITTEE

In the brochure

ORGANIZING COMMITTEE MEMBERS FROM COLLABORATING COLLEGES/ INSTITUTIONS

In the brochure



ACHARYA NARENDRA DEV COLLEGE UNIVERSITY OF DELHI

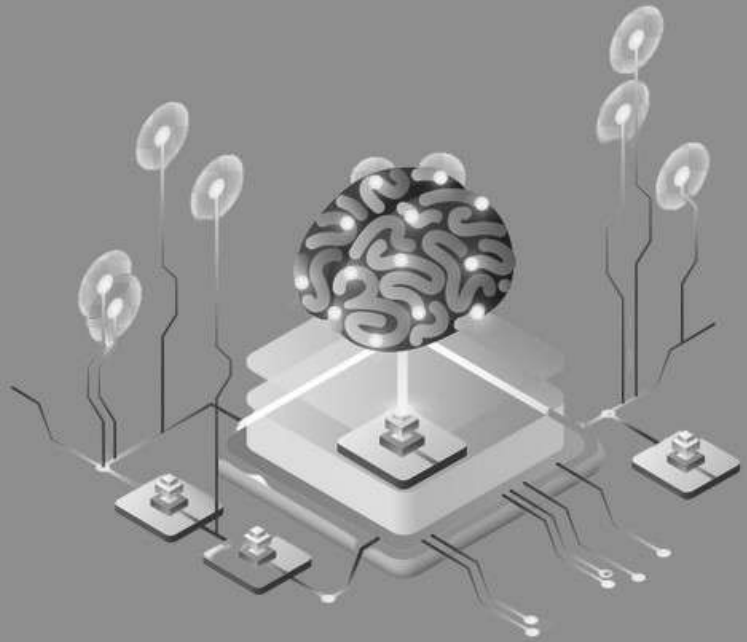


ACCREDITED 'A' GRADE BY NAAC- Score 3.31
NIRF 2021 Ranking-20 | DBT Star College
<https://www.andcollege.du.ac.in/> +91-(0)11-26294540

TURING SOCIETY
**DEPARTMENT OF COMPUTER SCIENCE
& INTERNAL QUALITY ASSURANCE CELL**
(UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME 2021-22)

ORGANIZES
An Online Talk On

Explainable AI



Mr. Pranjal Mishra
Lead Data Scientist
CIMB Bank

Prof. Ravi Toteja
(Institution DBT Star Scheme Coordinator,
Officiating Principal)

Dr. Harita Ahuja
(Department DBT Star Scheme
Coordinator)

Dr. Preeti Marwaha
(Turing Society Convener)

Dr. Sunita Narang
(Teacher-In-Charge)

Ms. Vandita Grover
(Event Convener)

04 OCTOBER 2021 | 4PM TO 5PM

MS Teams Link- <http://shorturl.at/cBH16>



Turing society
Department of Computer Science
& Internal Quality Assurance Cell
(UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME 2021-22)
Organizes

An Online Talk On

Predictive Modeling

Using Python



Dr. Nihar Ranjan Roy
Associate Professor, Computer
Science and Engineering (CSE)
Sharda University

Prof. Ravi Toteja
(Institution DBT Star Scheme
Coordinator, Officiating Principal)

Dr. Preeti Marwaha
(Turing Society Convener)



Dr. Harita Ahuja
(Department DBT Star Scheme
Coordinator)

Dr. Chandrakant Samal
(Event Convener)

Dr. Sunita Narang
(Teacher-In-Charge)

Ms. Nishu Singh
(Event Co-convener)

08 October 2021 | 3PM to 5PM

MS Teams Link- <http://shorturl.at/pACTW>



ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)



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NAAC ACCREDITATION GRADE 'A' / NIRF 2020 ALL INDIA RANKING - 18

DEPARTMENT OF COMMERCE

Training, Learning And Placement Cell

In collaboration with

IQAC, Career Counselling And Placement Cell, Acharya Narendra Dev College

Is organizing a webinar on

"Career Opportunities in MNC Banks"



Guest Speaker

CA SAMEER MAHAJAN

VICE PRESIDENT,
CONTROLLERS DIVISION,
GOLDMAN SACHS

Date: 9th October, 2021

Time: 1 PM

Venue: Google Meet



R E G I S T E R F O R F R E E

Dr Harita Ahuja
(Convenor-Career Counselling &
Placement Cell)

Dr. Shalu Mahajan
(TIC-Comm. Deptt.)

Prof. Sarita Kumar
(Convenor-IQAC)

Prof. Ravi Toteja
(Officiating Principal)

Page No. 364

Student Coordinator: Ved Vaibhav Deo - 9354994167

Report of an Alumni Lecture Series

An Alumnus Talk on "**Journey of an Alumni Episode -1 The Rise**" was successfully organized by Department of Chemistry, Acharya Narendra Dev College under the aegis of DBT star scheme and IQAC on 16th October 2021 from 12:30 PM to 2:00 PM on Google Meet. Mr. Rahul Giri from Katayev Lab, University of Fribourg, Switzerland was the speaker. He is our Alumni form BSc. (H) Chemistry, Batch 2013-16. He presented his work on the topic "Nobel prize in chemistry 2020! Organocatalysis before 2000" and gave information about chirality and history of organic synthesis. Participants including students, faculty from college and around 10 other alumni placed internationally attended the event. All students and faculty members enjoyed the program. At the end, wonderful responses received through Feedback form.

Poster

ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI
 NAAC ACCREDITATION GRADE - 'A' | NIRF RANK- 20
 Department of Chemistry
 Under the aegis of DBT Star Scheme and IQAC
Brings
Journey of an Alumni

Date: 16/10/2021
Time: 12:30PM
Venue - Google Meet
Google meet link:
<https://meet.google.com/hww-xrve-bhm>



Rahul Giri
 PhD Scholar, Katayev Lab
 Catalysis and Organic Synthesis
 University of Fribourg, Switzerland

Episode-1 The Rise
 COMETH, SIT, TALK ABOUT YOUR GONE DAYS

Prof. Ravi Toteja Prof. Sunlta Hooda Dr. Geetu Gambhli Dr. Kavita Mittal
 PATRON DBT Coordinator Convenor Co-Convenor


Student Coordinator - Meghana Bisht (8006791945)

Rahul Giri is presenting



UNIVERSITÉ DE Fribourg
UNIVERSITÄT Fribourg


Episode-1 The Rise




KATAYEV LAB
Catalysis and Organic Synthesis

Noble Prize in chemistry 2021!


Organocatalysis before 2000




Kandinya Vileyze
Haber/Bag, Baskland
2006



Acharya Narendra Dev College
University of Delhi
2014




Indian Institute of Science
Education and Research, Bhopal
2018




University of Fribourg
Switzerland
2021

Speaker:
Rahul Giri
Chemistry Department,
University of Fribourg


October, 15 2021




ACHARYA NARENDRA DEV COLLEGE
UNIVERSITY OF DELHI
NAAC ACCREDITATION GRADE 'A' | NIRF RANK 20
Department of Chemistry
Under the charge of Prof. Gokhale and IAC
—Bhopal—
Journey of an Alumni




Abhinav Mishra




Dr. Pragati Maik




Rahul Giri




Dr. Sunita Hooda




30 others




You




arpit agrawal



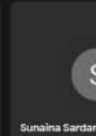
Dr. Geetu Gambhir




Rahul Giri




Dr. Pankaj Khanna




Sunaina Sardana




Dr. Sunita Hooda




Sachin Giri




Meghana Bisht




Pankaj Kushiwaha




Jai Gautam




Sneha Khurana




Ritwij Tiwari




Sachin Mishra



Tanya Chopra



9 others



You



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI



NAAC ACCREDITATION GRADE - 'A' | NIRF RANK-20

DEPARTMENT OF CHEMISTRY

UNDER THE AEGIS OF DBT STAR SCHEME AND IQAC

Brings
Journey of an Alumni



Sachin Giri

PhD Student
University of Texas at Dallas
United States

Date: 22/10/2021

Time: 06:30PM

Venue - Google Meet

Google meet link:

<https://meet.google.com/bui-povk-kbh>

Episode-2 The Rise

COMETH, SIT, TALK ABOUT YOUR GONE DAYS

Prof. Ravi Toteja
PATRON

Prof. Sunita Hooda
DBT Coordinator

Dr. Geetu Gambhir
Convenor

Dr. Kavita Mittal
Co-Convenor

Student Coordinator - Meghana Bisht (8006791945)



Acharya Narendra Dev College University of Delhi



[NAAC Accredited A with score 3.31 | All India NIRF Rank '20' in 2021]

Under The Aegis of DBT STAR College Scheme and IQAC

Cordially invites you all to the inaugural lecture of

THE BOTANICAL SOCIETY

Tarumitra

‘Biodiversity Conservation
as if people and ecosystem matter’



Dr Dhanya Bhaskar
Associate Professor
Indian Institute of Forest Management

October 28, 2021
Thursday
2:30 PM

Google Meet Link

<https://meet.google.com/eji-cmir-gbt>

Professor Ravi Toteja
Chief Patron

Professor Charu K. Gupta
Teacher-In-Charge

Dr Anupama Shukla
Staff Advisor



ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

NAAC ACCREDITATION GRADE - 'A' | NIRF RANK - 20

DEPARTMENT OF CHEMISTRY

UNDER THE AEGIS OF DBT STAR SCHEME AND IQAC

Brings

International Seminar

Journey of an Alumni

Episode-3 The Rise

COMETH, SIT, TALK ABOUT YOUR GONE DAYS



30th October (Saturday)



12:30 PM



Google Meet



<https://meet.google.com/zcc-nbxk-ywy>

Anmol Thanai

PhD Scholar
University of Manchester
United Kingdom

Prof. Ravi Toteja

PATRON

Prof. Sunita Hooda

DBT Coordinator

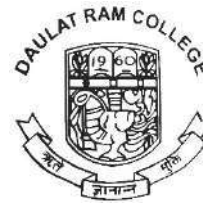
Dr. Geetu Gambhir

Convener

Dr. Kavita Mittal

Co-Convener

Student Coordinator - Meghana Bisht (8006791945)



Independent India @ 75: Self
Reliance with Integrity



Ours is a
Non-Violent
War, It is
DHARMA YUDDHA.
Sardar Vallabhbhai Patel
IRON MAN OF INDIA

National Seminar

on



Vigilance, Corruption and Transparency in Governance – a Re-Assessment

on the occasion of Vigilance Awareness Week 2021

Date: 1st November 2021, Time: 10am to 5pm

Google Meet link: <https://meet.google.com/hob-hztk-yur>

Distinguished Guests/Speakers



Keynote Speaker
Prof. (Dr) Arnab Bose
Jindal Global Law School, O P
Jindal Global University, Sonipat,
Haryana



Speaker
Prof. (Dr) Ravi Toteja
Principal
Acharya Narendra Dev College,
University of Delhi



Speaker
Prof. (Dr) Savita Roy
Principal
Daulat Ram College, University of
Delhi



Speaker
Dr Hina Nandrajog
Officiating Principal
Vivekananda College, University of
Delhi



Speaker
Prof. (Dr) Seema Gupta
Acharya Narendra Dev College,
University of Delhi



Speaker
Dr Anju Jain
Sr. Assistant Professor
Daulat Ram College,
University of Delhi



Speaker

Dr Gagan Dhawan

Associate Professor
Acharya Narendra Dev College,
University of Delhi



Convener/Concept note Author

Dr Seema Sharma

Assistant Professor
Vivekananda College, University of Delhi

For India, it is important to create our own narratives of our struggles, understand the nature of the problems associated with governance, and seek to address them on our own.

This seminar will delve and discuss the following aspects from an Indian perspective:

- the need for understanding vigilance, corruption, and transparency in governance
- the need for re-assessing what corruption or lack of transparency is
- research methods on vigilance, corruption, and transparency in governance
- case studies on vigilance, corruption, and transparency in governance

The seminar will also discuss the role of Sardar Patel, the Iron Man of India.

Introduction

India became the largest democracy in the world after its independence from British rule in 1947. Democracy can be defined as a system of governance ‘of the people, for the people, by the people’ which derives legitimacy through transparency and a system of checks and balances. A lack of transparency at any level of governance can pose to be the biggest threat to any democracy.

In this context, vigilance and awareness are the two most distinctive characteristics of any democracy to work efficiently. These two factors create a perfect check and balance mechanism which ensures that any local governance works in the interest of local people. The realization of the same had happened long back in 1964, when Central Vigilance Commission (CVC) was established in India to maintain transparency in the work flow at all levels of governance. Since then, CVC has been working as an apex anti-corruption body in the country.

Context

Transparency International (TI) defines corruption as “the abuse of entrusted power for private gain or specific group interest”. It is pertinent to note that while international organisations like TI have done important work, it can be argued that even though they have defined corruption correctly, yet such organisations hardly ever get the response to address the ground realities correctly, thus making the malaise even worse.

Let us take the case of India and its feedback in relevant international reports on transparency.

As of 2020, India stands at the 86th position on the corruption perception index among a list of 180 countries. which is worse than 2019 when India stood at the 80th position ([Transparency International](#)).

According to the Transparency International Report 2020, India has the highest bribery rate in Asia and the most number of people who use personal connections to access public services. It was found that nearly 50 per cent of those who paid bribes were asked to do so, while 32 per cent of those who used personal connections said they would not receive the service otherwise ([The Global Corruption Barometer \(GCB\) – Asia](#)).

The Report also stated that bribery in public services continues to harm the basic democratic rights of common Indian citizens. Slow and complicated bureaucratic processes, unnecessary red tape, and unclear regulatory frameworks force citizens to seek out alternate solutions to access basic services through networks of familiarity and petty corruption.

All this could have been very ominous for India, if we could consider these reports as completely credible. A charge can be levelled that TI has failed to incorporate systemic abuses in the developed world which have more far-reaching and devastating effects; take the financial crisis of 2008 as an example which TI reports did not incorporate. Because of such failures it seems that reports like these are just tools in seeking leverage in international geo-politics, or sometimes simply seek to malign other countries.

For India, it is important to create our own narratives of our struggles, understand the nature of the problems associated with governance, and seek to address them on our own. Over reliance on foreign etc narratives is not only unfortunate but also extremely dangerous. In this context the **Objectives** of the seminar may be summarised as follows:

1. Create awareness among the stakeholders on vigilance, corruption, and transparency in governance in India
2. Understand corruption in India from both the bird's eye view and worm's eye point of view; or, to frame this differently, have both emic as well as etic perspectives on vigilance, corruption, and transparency in governance
3. What could be the best research methods to study corruption or other socio-economic issues from the points of view of ontology and epistemology
4. Stakeholder consultation to contemplate vigilance, corruption, and transparency in governance in India to rewire us with more nuanced yet accurate perspectives

The seminar will also highlight the steps and processes/ mechanisms that need to be followed as per CVC rules and regulations to combat corruption effectively at the level of a single individual or institution or organizational.

Concept Note Author & Convener

Dr Seema Sharma
Assistant Professor, Department of Environment,
Vivekananda College, University of Delhi

Co-convener

Dr. Gagan Dhawan, Associate Professor and Eco
Club Coordinator – Acharya Narendra Dev College
(ANDC), University of Delhi

Dr. Anju Jain, Associate Professor and Eco Club
Coordinator – Daulat Ram College, University of
Delhi

Patrons

Dr. Hina Nandrajog, Officiating Principal,
Vivekananda College (VNC), University of Delhi

Prof. Savita Roy, Principal, Daulat Ram College
(DRC), University of Delhi

Prof. Ravi Toteja, Officiating Principal, Acharya
Narendra Dev College (ANDC), University of
Delhi

Student Coordinators

Mitushi Sharma – Student Coordinator, Eco Club, Vivekananda College

Vandana— Student coordinator, Eco Club, Vivekananda College

Muskan— Student coordinator, Eco Club, Vivekananda College

Archita Bansal— Student coordinator, Eco Club, Vivekananda College

Nikhil – Student Coordinator, Eco Club, Acharya Narendra Dev College

Pratiksha Shankwar— Student Coordinator, Eco Club, Daulat Ram College

Pragati Prerna— Student Coordinator, Eco Club, Daulat Ram College

Program Schedule

Time	Activities	Resource Person
10 am	Welcome Address	Dr. Hina Nandrajog, Officiating Principal, Vivekananda College, University of Delhi Prof. Savita Roy, Principal, Daulat Ram College (DRC), University of Delhi Prof. Ravi Toteja, Officiating Principal, Acharya Narendra Dev College (ANDC), University of Delhi

	Session and Theme Introduction and about the seminar objectives	Dr. Seema Sharma
	Keynote speaker “Vigilance, Corruption and Transparency in Governance and the Need for Reassessment: An Indian Perspective”	Prof. (Dr) Arnab Bose Jindal Global Law School (JGLS)
	Technical Session 1	
	Session on “Role of stockholders on vigilance, corruption, and transparency in governance in India“	Prof. (Dr) Seema Gupta Acharya Narendra Dev College, University of Delhi Session Chair: Dr. Anju Jain, Associate Professor, Daulat Ram College, University of Delhi
	Technical Session 2	
	Panel Discussion on “Understanding corruption in India from both the bird’s eye view and worm’s eye point of view; or, to frame this differently have both an emic as well as etic perspectives on vigilance, corruption and transparency in governance”	Discussants 1. Dr. Anju Jain 2. Dr. Gagan Dhawan 3. Dr. Seema Gupta Moderator: Dr. Seema Sharma
	Technical session 3	
	Session on	Dr. Seema Sharma

	“What could be the best research methods to study corruption or other socio-economic issues from the point of view of ontology and epistemology	Session chair Prof. (Dr) Gagan Dhawan ANDC, college
	Technical Session 4	
	Student panel discussion on “What is corruption and how it can be dealt with in the current context in order to achieve Self Reliance with Integrity”	
	Vote of Thanks	



6th

U P C O M I N G

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DEPARTMENT OF CHEMISTRY
UNDER THE AEGIS OF DBT STAR SCHEME AND IQAC

Brings
International Seminar
Journey of an Alumni

Date: 26/11/2021 (FRIDAY)
Time: 06:00 PM
Venue - Google Meet
Google meet link:
<https://meet.google.com/hsn-cqsc-nrj>



Vipendra Kumar
Postdoctoral research associate
University of Illinois
Urbana Champaign, IL, USA.

Episode-4 The Rise
COMETH, SIT, TALK ABOUT YOUR GONE DAYS

Prof. Ravi Toteja PATRON	Prof. Sunita Hooda DBT Coordinator	Dr. Geetu Gambhir Convenor	Dr. Kavita Mittal Co-Convenor
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Student Coordinator - Meghana Bisht (8006791945)



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Department of Chemistry

Under the aegis of DBT Star Scheme and IQAC

Brings

Journey of an Alumni

FINAL CHAPTER

The Rise



Vinod Singh Adhikary
Flying Officer
Indian Air Force

 10/12/2021 (FRIDAY)

 06:00 PM

*Save
the
Date!!!*

 <https://meet.google.com/rby-daks-ouu>

Prof. Ravi Toteja **Prof. Sunita Hooda** **Dr. Geetu Gambhir** **Dr. Kavita Mittal**
PATRON **DBT Coordinator** **Convenor** **Co-Convenor**



Principal ANDC <principal@andc.du.ac.in>

Invitation: Talk by Prof Savithri Singh on Dec 17, 2021 @ Fri Dec 17, 2021 11am - 12pm (IST) (principal@andc.du.ac.in)

1 message

saritakumar@andc.du.ac.in <saritakumar@andc.du.ac.in>

Thu, Dec 16, 2021 at 10:44 AM

Reply-To: saritakumar@andc.du.ac.in

To: principal@andc.du.ac.in, Savithri Singh <singh.savithri@gmail.com>, singh.savithri53@gmail.com, pankajkhanna@andc.du.ac.in, andc-iqac <andc-iqac@googlegroups.com>, sadanandprasad@andc.du.ac.in, soaccounts@andc.du.ac.in, preetimarwaha@andc.du.ac.in, spapincipal@andc.du.ac.in, sandeepgoel@andc.du.ac.in, ravneetkaur@andc.du.ac.in, sandeepkr.goel@andc.du.ac.in, iqac@andc.du.ac.in, arijitchowdhuri@andc.du.ac.in, gagandhawan@andc.du.ac.in, geetugambhir@andc.du.ac.in, ao@andc.du.ac.in, anupamashukla@andc.du.ac.in, raminder.kalra@gmail.com

You have been invited to the following event.

Talk by Prof Savithri Singh on Dec 17, 2021

When Fri Dec 17, 2021 11am – 12pm India Standard Time - Kolkata

[more details »](#)

Joining info Join with Google Meet
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Join by phone
(US) +1 202-888-4113 (PIN: 975328927)

Calendar principal@andc.du.ac.in

Who

- saritakumar@andc.du.ac.in - organizer
- Savithri Singh
- singh.savithri53@gmail.com
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- pankajkhanna@andc.du.ac.in
- andc-iqac
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- preetimarwaha@andc.du.ac.in
- spapincipal@andc.du.ac.in
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- geetugambhir@andc.du.ac.in
- ao@andc.du.ac.in
- anupamashukla@andc.du.ac.in
- raminder.kalra@gmail.com

Going (principal@andc.du.ac.in)? **Yes - Maybe - No** [more options »](#)

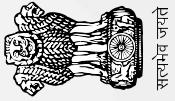
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under the aegis of

DBT STAR College Scheme | Internal Quality Assurance Cell (IQAC)

Acharya Narendra Dev College

presents a session on

IPR Awareness Programme

(Under National Intellectual Property Awareness Mission)

December 29, 2021 Time: 4:00 PM onwards



Scan for joining



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Prof. Ravi Toteja

Principal, ANDC

Assistant Controller of Patents and Designs, Intellectual Property Office, Delhi Ministry of Commerce

Dr. Usha Rao

Departmental STAR College Coordinator

Prof. Seema Makhija

Convenor, IQAC

Prof. Sarita Kumar



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TOPIC - Why him and why her?
Why not him to her ?

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DATE - 24 January 2022

TIME - 4-5 pm

PLATFORM - Google meet

Register here: -

<https://forms.gle/KqKHaha5MWDKLUdX9>

PROF. (DR) RAVI TOTEJA
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DR GEETIKA KALRA
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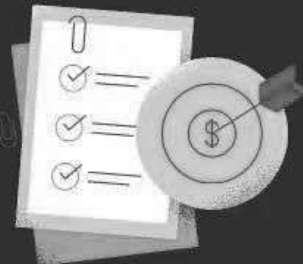
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Topic :

Career Opportunities in Publishing



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Dr. Ravneet Kaur

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Presents a

National Webinar on Introduction to BioNEST-UDSC & Bio-Entrepreneurship

in association with

BioNEST-UDSC (University of Delhi, South Campus) and under the
aegis of DBT STAR & IQAC, ANDC



SPEAKER

Vijay Kantharia,
CEO, Bio-NEST UDSC

TIME & DATE

February 15, 2022 ; Tuesday 4:00 PM

Organizers

BioNEST-UDSC

Prof Swati Saha (*Coordinator*)
Prof Rani Gupta (*Nodal Officer*)
Prof Rajeev Kaul (*Joint Nodal Officer*)
Prof YP Khasa (*Joint Nodal Officer*)

ANDC

Prof Ravi Toteja,
*Officiating Principal
& Patron*
Prof Urmi Bajpai,
Convener

Zoom Link for: <https://us06web.zoom.us/j/83510500034>

Prior registration is requested. Link to register: shorturl.at/hEU29



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आज़ादी का
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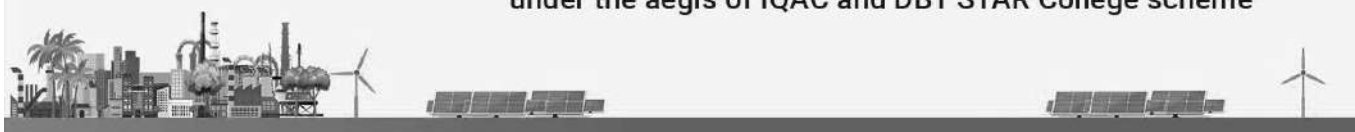


International E-Conference on

Mitigating Contemporary Environmental issues by Sustainable Approaches [ICMCESA - 2022]

February 22 - 28, 2022

under the aegis of IQAC and DBT STAR College scheme



ABOUT THE CONFERENCE

UN mandated "Decade of Action" has already begun from the year 2020 with an aim to deliver the Sustainable Development Goals by 2030. This decade long endeavour is assigned to promote the shared vision of nations and proffer multipronged accelerated responses to one of the world's most serious challenges – reversing climate change. The main focus of the conference is to generate interest amongst all to concentrate on the burning issue of environmental mitigation through proactive uptake of sustainable approaches. It is in line with the global scenario wherein the latest developments occurring in the field of environmental monitoring & assessment have generated intense research in all branches of science (Biological, Chemical and Physical). The field of contemporary environmental issues demand affirmative action in fields including but not limited to biodiversity conservation/reclamation and environmental toxicology. Creation of sustainable cities through strict laws and policies for environmental protection while assessing environment status via GIS mapping and remote sensing comprise the basic step forward. Pioneering ideas of adoption of environmental economics and eco-preneurship constitute another important phase. Worldwide scientific findings necessitate that there is an urgent need to ignite young minds to think out-of-the-box and in an innovative manner to help stoke interest in environmental sensitization. The International E-Conference on Mitigating Contemporary Environmental Issues by sustainable approaches envisions to make available a platform for free exchange of ideas for the same.

Deadline for submission of abstracts extended to 11 February 2022 (Friday)

Only registered authors will be given certificates

[Media Coverage](#)

PLENARY SPEAKER



Prof. Gaytha A. Langlois

Professor of Environmental Policy

Bryant University
Rhode Island, USA

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Dr. David Kocman

Department of Environmental Sciences
Jožef Stefan Institute (JSI) Ljubljana, SLOVENIA

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Dr. Natasa Mori

Department of Organisms and Ecosystems Research
National Institute of Biology in Ljubljana, SLOVENIA

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Dr. Rajesh Jalota

Energy and Extractive and Southwest Queensland Compliance
unit, Queensland, AUSTRALIA

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Prof. Rup Lal

FNA, FNASc, FNAAS
NASI Senior Scientist Platinum Jubilee Fellow
The Energy and Resources Institute, INDIA

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Dr. Bettina Sonntag

Senior scientist and Head of the research group 'Ciliate ecology
and taxonomy'
Research Department for Limnology, Mondsee
University of Innsbruck, AUSTRIA

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Prof. R.K. Kohli

Vice-Chancellor'
Amity University
Punjab, INDIA

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Dr. Kaustubh Sharma

Senior Ecologist
Snow Leopard Trust, Seattle, USA

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Prof. Dinabandhu Sahoo

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University of Delhi, Delhi, INDIA

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Life Science Diversity and Informatics Division
Natural History Museum, London, UNITED KINGDOM

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Dr. Paola Scavone

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Clemente Estable Biological Research Institute, Montevideo,
Uruguay

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Dr. Gayatri Kanungo

Senior Environment Specialist,
Natural Resources and Blue Economy Global Practice World Bank
Group, Washington DC, USA

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INVITED SPEAKERS



Prof. Ram Kumar

Professor of Environmental Science, School of Earth Biological
and Environmental Sciences Central University of South Bihar,
INDIA



Dr. Himender Bharti

Head of the Department of Zoology and Environmental Sciences
Punjabi University Patiala, INDIA



Dr. Sanjukta Subudhi

DBT-TERI Center of Excellence in Advanced biofuels & Bio-commodities The Energy and Resources Institute, Delhi, INDIA



Dr. Rachna Chandra

Department of Environmental Sciences - Forestry Faculty of Agriculture Sri Sri University Cuttack-Odisha, INDIA



Dr. B. Anjan Kumar Prusty

Department of Natural Resources Management and Geoinformatics Berhampur University, Bhanja Bihar, Berhampur, Odisha Berhampur University, INDIA



Dr. Shailly Anand

Department of Zoology, Deen Dayal Upadhyaya College University of Delhi, Delhi, INDIA



Mr. Debadityo Sinha

Founder & Trustee, Vindhyan Ecology and Natural History Foundation and TEDx speaker, INDIA



Dr. Nageswara Rao Amanchi

Department of Zoology at University College of Science Osmania University, Hyderabad, Telangana, INDIA



Dr. Roshan Kumar

Magadh University
Bodh Gaya, INDIA



Dr. Utkarsh Sood

The Energy and Resources Institute (TERI), Delhi, INDIA



Prof. Gowhar Bashir Wakil

Director, Institute of Technology
Zakura Campus, University of Kashmir, INDIA



Dr. Faiyaz Ahmad Khudsar

Centre of Environmental Management of Degraded Ecosystems,
Delhi, INDIA



Prof. Radhey Shyam Sharma

Department of Environmental Studies , University of Delhi, Delhi,
INDIA



Prof. Inderjit Singh

Department of Environmental Studies, University of Delhi, Delhi,
INDIA



Dr. Anjali Sharma Kaushik

Department of Physics, ARSD College, University of Delhi, New Delhi, INDIA



Prof Mrutunjay Suar

Director General R&D, KIIT University, Bhubaneswar, INDIA



Dr. Charu Dogra

Associate Professor, Ramjas College, University of Delhi, Delhi, INDIA



Raunak Dhanker

Ph.D (NTOU, Taiwan), Assistant Professor, School of Engineering & Sciences, G D Goenka University, Gurgaon. INDIA



Prof. Hardeep kaur

Department of Zoology, Ramjas College, University of Delhi, Delhi, India



Ms. Parul Gupta

Practicing lawyer before the Supreme Court of India and National Green Tribunal, Delhi, INDIA



Dr. Mukesh Kumar Thakur

J. Heyrovsky Institute of Physical Chemistry of the Czech
Academy of Sciences, Prague, CZECH REPUBLIC



Dr. Gauri Garg Dhingra

Department of Zoology, Kirori mal College, University of Delhi,
INDIA



Prof. Kamal Gupta

Department of Zoology, Deshbandhu College, University of Delhi,
India



Dr. Aparajita Mohanty

Associate Professor in Department of Botany, Gargi College,
University of Delhi



Dr. Helianthous Verma

Ramjas College, University of Delhi



Dr. Kajal Jindal

Department of Physics, Kirori Mal College, University of Delhi

THEMES AND SCOPE

Environmental Assessment	Environmental Mitigation by physical, chemical and biological approaches	Biodiversity conservation and reclamation	Laws and policies for Environmental protection
GIS mapping and remote sensing for environmental assessment	Environmental toxicology	Sustainable cities and communities	Environmental economics and eco-preneurship
Igniting young minds for environmental sensitization	Data analytics in environment	Green finance	Environment and public health

IMPORTANT DATES

Last date of Registration:

20 February, 2022

Acceptance of Abstract:

20 February, 2022

Abstract Submission:

Closed

CALL FOR ABSTRACTS

Abstracts are invited from UG/PG/Research Scholars/Faculty for oral/poster presentations having a maximum of 250 words, in Times New Roman 12 point font (1.5 line spacing). Title, author name, and affiliation should be in separate lines and are to be centered. The presenting author's name should be underlined. E-mail address of the corresponding author should be given. The abstract should be sent as an attachment in MS word format by e-mail to: icmcesa2022@andc.du.ac.in

Awards for outstanding presentation will be given to the participants

Abstracts will be accepted after peer-review and acceptance will be conveyed by e-mail.

Abstract submission details and registration form is available on the college website – <https://www.andcollege.du.ac.in>. Abstract(s) and Registration form should be sent as attachment in Word format by e-mail to: icmcesa2022@andc.du.ac.in

Selected full-length papers will be published in Proceedings with ISSN/ISBN numbers (extra charge Rs. 1500/- OR USD 60).

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Rs. 1000/- OR USD 50

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Rs. 300/- OR USD 20

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Rs. 5000/- OR USD 100

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Registration Form

CONTACT US

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TURING SOCIETY DEPARTMENT OF COMPUTER SCIENCE (UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME 2021-22)

ORGANIZES
A Talk On

Wireless Network Security

by

Prof. Sanjay Kumar Dhurandher

Professor and Head

Department of Information Technology,
Netaji Subhas University of Technology



Prof. Ravi Toteja
(Institution DBT Star Scheme Coordinator,
Officiating Principal)

Dr. Sunita Narang
(Teacher-In-Charge)

Dr. Harita Ahuja
(Department DBT Star Scheme
Coordinator)

Dr. Preeti Marwaha
(Turing Society Convener)

Dr. Chandrakant Samal
(Event Convener)

Ms. Nishu Singh
(Event Co-Convener)

04 MARCH 2022 | 2PM TO 4PM

**VENUE:- LAB 3, 4, 5 DEPARTMENT OF COMPUTER SCIENCE,
ACHARYA NARENDRA DEV COLLEGE**







ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Accreditation Grade 'A' | NIRF Ranking 2021- #20

DBT Star Status College

&

SASHAKT

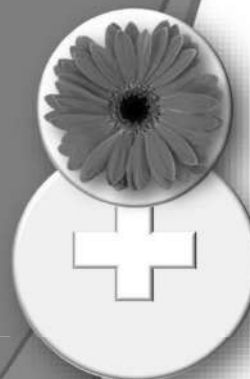
Women Empowerment Society of ANDC

celebrates

INTERNATIONAL

Women's Day

MARCH 8, 2022 | TUESDAY



PROGRAMME

MARCH 8, 2022 | TUESDAY

11:00 a.m.

Talk: Challenges and Strategic Solutions for Breaking the Bias for Better Nutrition and Health Outcomes
by Ms Deepti Gulati

Industry Chair Professor: Nutraceuticals and Fortification, at NIFTEM, Sonapat, Haryana, India

11:45 a.m.

Inauguration of Mushroom Research & Skill Development Centre (MRSDC) by Ms. Deepti Gulati

12:00 p.m.

Break

01:00 p.m.

Talk: Energy Work to Declutter and Re-energize!!
by Ms Seema Sharma

Reiki Master, organization associated with Cosmic Rhythm, Indore.

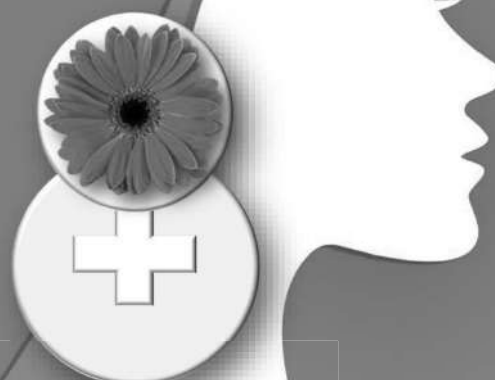
Prof. Ravi Toteja
Patron

Dr Geetika Kalra
Convenor, SASHAKT

Dr Rashmi Sharma
Departmental
Coordinator DBT-STAR

Coordinators MRSDC

Dr Anupama Shukla
Dr Anita Narang
Dr Manoj Kumar Singh
Dr Sumit Sahni
Dr Vineet Singh





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TARUMITRA

The Botanical Society of ANDC is organizing



Dr Saumya Saxena Memorial Lecture -2022

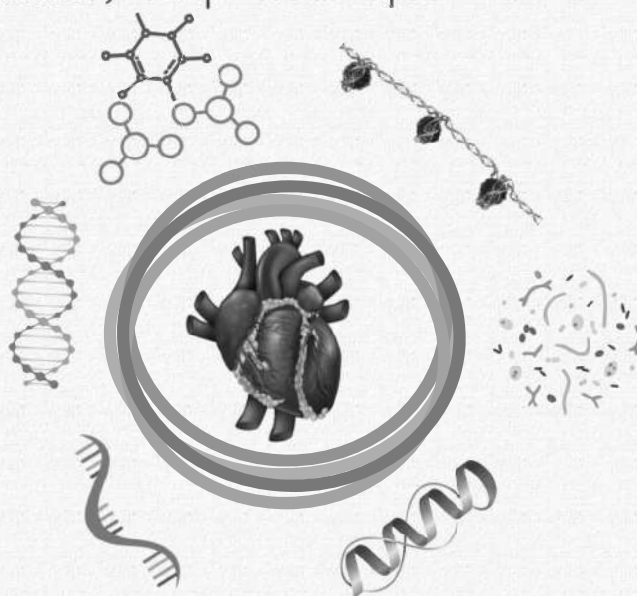
Biomarker Discovery for Cardiovascular Diseases using Multi Omics Approaches

by

Prof. Mohammad Zahid Ashraf

Head, Department of Biotechnology Jamia Milia Islamia

March 23, 2022 | 11:00 a.m. | Seminar Hall



Prof. Ravi Toteja

Patron

Dr Anupama Shukla

Convenor

Prof. Charu Khosla Gupta

Teacher-in-charge