3.5.1 Number of functional MoUs/linkages with institutions/industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

ACHARYA NARENDRA DEV COLLEGE

UNIVERSITY OF DELHI

DBT STAR STATUS COLLEGE

All India NIRF 2022 Ranking-18, NAAC Score-3.31

Govindpuri, Kalkaji, New Delhi 110019

ACHARYA NARENDRA DEV COLLEGE

Preparing for the future...

आचार्य नरेंद्र देव कॉलेज

तैयारी भविष्य की...

University of Delhi | NAAC accredited: A Grade
दिल्ली विश्वविद्यालय | नैक मान्यता प्राप्त 'ए' ग्रेड

Supporting Document for 3.5 Collaboration

3.5.1: Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

3.5.1	**Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.**

Year	2021-22	2020-21	2019-20	2018-19	2017-18
No. of MoUs	10	7	6	5	4

Attached Documents are :
1. **Excel File**

   Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

2. **Table 1.**

   E-copy and Copies of MOUs/ collaboration/ related documents indicating the nature of collaboration and activities year-wise.

3. **Table 2.**

   List of activities conducted under each MoU along with dates of starting and completion year-wise signed by both parties.

ACHARYA NARENDRA DEV COLLEGE

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Table 1.

E-copy and Copies of MOUs/ collaboration/ related documents indicating the nature of collaboration and activities year-wise.

S.No.	Name of the MoU/ Collaboration/linkage	Year	Page No.
1.	Society of Photo-Optical Instrumentation Engineers (SPIE)	2010 - till date	1-2
2.	Science Setu (Thsti Department of Biotechnology)	2016 – 2019	3-12
3.	Creative Commons Affiliate	2013-2018	13-15
4.	Th!nk Lab– Collaboration with CUBE	2010-till date	16-17
5.	International Bacteriophage Research Consortium (Open Health System Laboratory, USA)	2018 – till date	18-20
6.	MOU between ANDC and The Azim Premji University	2018 – till date	21-24
7.	MOU between ANDC and PhiXGen Pvt. Ltd.	2019	25-28
8.	National Programme on Technology Enhanced Learning (A Joint venture of Indian Institutes of Tachnology and Indian Institute of Science)	2019 - till date	29-30
9.	MOU between Entrepreneurship Cell of Open Learning, University of Delhi and ANDC	2021	31-35
10.	MOU between Auburn University and ANDC	2021-2024	36-38
11.	MOU between Monster.com India Private Limited and ANDC	2022	39-44
12.	Science Setu (National Institute of Immunology)	2022-2025	45-49
13.	Collaboration with IIT, Delhi	2021	50-51
14.	Skill Hub Initiative Under PMKVY	2022	52-54

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Table 2.

List of activities conducted under each MoU along with dates of starting and completion year-wise signed by both parties.

S.No.	Name of the MoU/ Collaboration/linkage	Year	Page No.
1.	Society of Photo-Optical Instrumentation Engineers (SPIE)	2010 - till date	55-77
2.	Science Setu (Thsti Department of Biotechnology)	2016 – 2019	78-82
3.	Creative Commons Affiliate	2013-2018	83
4.	International Bacteriophage Research Consortium (Open Health System Laboratory, USA)	2018 – till date	85-95
5.	MOU between Auburn University and ANDC	2021-2024	96-97
6.	Collaboration with IIT, Delhi	2021	98-99
7.	Skill Hub Initiative Under PMKVY	2022	100-101

S. No.	Name of the MoU / Collaboration / linkage	Name of the collaborating agency / institution / industry / corporate house with whom the MoU / collaboration / linkage is made, with contact details	Year of signing MoU / collaboration / linkage	Duration of MoU / collaboration / linkage	List the actual activities under each MOU and web-links year-wise	Link to the relevant document
3.5.1. Number of MoUs, collaborations / linkages for Faculty exchange, Student exchange, internship, field trip, on-the-job training, research and other academic activities during the last five years						
2017-18						
1	Society of Photo-Optical Instrumentation Engineers (SPIE)	SPIE USA	2010	till date	SPIE student members, Adarsh, Prsahant and Chiradeep participated in the 5th Annual Convention organized by Regional	Faculty Advisor: Prof. Amit Garg President: Rohit Saini Vice President: Chiradeep Das Secretary: Ritesh Raj
2	Science Setu	Thsti Department of Biotechnology	2016	3 Years	1. A team of four students, Jayati, Shreya, Priya Don and Sonia, won the first prize in the Science quiz organized by THSTI on their open day (September 22, 2017).	https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf
					2. Vikas Shukla and Aishwarya Patnaik from Department of Botany participated in extempore competition. Two faculty members. Dr Urmi Bajpai and Dr Abhishek Mehta were the coordinators from the College.	https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf
3	Creative Commons Affiliate	Creative Commons	2013	5 Years	The conference was conducted on February 03, 2018 at Acharya Narendra Dev College, University of Delhi.	https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf
4	Th!nk Lab– Collaboration with CUBE	Homi Bhabha Centre for Science Education, TIFR, Mumbai	2010	till date	Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.	
2018-19						
1	Society of Photo-Optical Instrumentation Engineers (SPIE)	SPIE USA	2010	2018-2019	"Paradigm Shift in Physics Education through hands-on techniques in OPTICS" was organized in collaboration with "JOY OF LEARNING FOUNDATION, DELHI" on January 24, 2019 by University of Delhi at ANDC SPIE Student Chapter.	
					The 2019 SPIE Structured Light OPIC (Optics and Photonics International Congress) along with SPIE leadership workshop was held from April 21 to April 26, 2019 in Yokohama, Japan.	
					Two days SPIE Induction Workshop-2018 on September 25-26, 2018 at Acharya Narendra Dev College.	https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf
					Conference was held at San Diego, CA, USA from August 18-23, 2018 this year. Mr. Chiradeep Das, a student of B.Sc(H) Electronics, Part III was awarded Officers' Travel Grant (OTG) to attend this conference with full funding from SPIE , USA. He	https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf
					A two-day workshop on Internet of Things (IOT) was organized by i3indiya in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018.	https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf
					THISTI sponsored the travel allowance of one of our student Ms. Akhila A. of B.Sc. (H) Biomedical Science II Year to attend the Indian International Science Festival, which was organised by the Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indra Gandhi Pratishthan, Lucknow: held from October 5-8, 2018.	
2	Science Setu	Thsti Department of Biotechnology	2016	3 years	1. Translational Health Science and Technology Institute, Department of Biotechnology, Ministry of Science and Technology, Govt. of India in collaboration with National Institute of Plant Genome Research organized an "Open Day @ THSTI" under the India International Science Festival 2018 on September 28, 2018 in the NCR Biotech Science Cluster.	

3	International Bacteriophage Research Consortium	Open Health System Laboratory, USA	2018	till date	Dr. Urmi Bajpai has developed a web portal for "International Bacteriophage Research Consortium (IBRC)" in collaboration with Open Health System Laboratory (OHSL), USA, which went live in October 2018.	<u>6 Teachers Dr Urmi Bajpai, Dr Abhishek Mehta, Dr Satendra Singh, Dr Namita Singh, Dr Rimpy Singh, Dr Prashant Pradhan Students: 3 UG (Ritam Das, Komal Kotra, Pulkit Singh, Research scholars: Ms Ritu Arora, Ms Saroj, Bajpai, U. (2019). A new phage consortium hosts its first public lecture. Capsid & Tail, (55). Retrieved from https://phage.directory/capsid/first-ibrc-lecture</u>
4	MOU between ANDC and The Azim Premji University	The Azim Premji University	2018	till date	To generate science education resources in Indian languages	
5	Th!nk Lab– Collaboration with CUBE	Homi Bhabha Centre for Science Education, TIFR, Mumbai	2010	till date	Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.	
2019-20					
1	Society of Photo-Optical Instrumentation Engineers (SPIE)	SPIE USA	2010	2019-2020	ROBOTHLON'19 workshop mainly focused on the students eager to learn about Embedded Systems using 8051. Two of SPIE members, Mr Hardik Minocha and Mr Prahlad Prajapat attended workshop held on October 4, 2019 at IIT, Delhi. organized in four sessions each day for newly joined students of the college to learn about the activities of the SPIE Society by Prince Sharma, Chapter president 2019-20 and Avinash Kumar Lal, Chapter Secretary 2019-20. Optical color mixing workshop cum introductory session with freshers was attended by110 students. Date/Time/Location: August 9, 2019 from 1-5 pm in Seminar Hall, New Building Around 80 students of SPIE student chapter went on an excursion to the Nehru Planetarium. Date/Time/Location: August 29, 2019 from 10-5 pm at Nehru Planetarium, New Delhi 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 A lab visit was organized 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 SPIE Chapter organized a talk by Professor Marija Strojnik, Astrophysicist and Distinguished Professor at Optical Research Center, Mexico on October 15, 2019 at Acharya Narendra Dev College. Two students, Mr Devesh Yadav and Mr Avinash Kumar Lal were sent to attend Maker Faire Hyderabad event held from November 10-12, 2019 at Hyderabad. 100 students attended a hands-on workshop on Arduino organized by SPIE in association with Elecbits. Date/Time/Location: September 7, 2019 from 1-5 pm in Seminar Hall, New Building SPIE Student Chapter ANDC in collaboration with ANDC InStart Foundation and STEAMEDU organized workshop 'Pyrobot (Code in Python to program EV3 robots)' at ANDC on February 11, 2020. DST (Department of Science & Technology, Government of India) sponsored fourth lecture workshop on transdisciplinary areas of research and teaching was held on September 27 & 28, 2019 at Deen Dayal Upadhyaya College, University of Delhi.	<u>Faculty Advisor: Prof. Amit Garg President: Aman Tyagi Vice President: Shruti Yadav Secretary: Prahlad Prajapat Tresurer: Phulender Singh Technical Officer: Yash Varshney Editorial Officer: Anurag Saxena Link for complete list of student members and activities:</u>

#	Name	Organization	Year	Duration	Details	Link/Notes
2	Science Setu	Thsti Department of Biotechnology	2016	3 Years	The Science Setu program organized a interactive talk session on February 25, 2020 by the scientists from THSTI on the topic 'Diagnostics Research'. Dr Tarun Kumar Sharma, Senior Research Scientist presented "Innovations in Diagnostics" and Dr	
3	International Bacteriophage Research Consortium	Open Health System Laboratory, USA	2018	till date	OHSL-IBRC colloquium, a public lecture delivered by Prof. Graham Hatfull, Professor in the department of Biological Sciences in the Kenneth P.Dietrich of Arts and Sciences at the University of Pittsburgh, USA on June 17, 2020.	
4	MOU between ANDC and PhiXGen Pvt. Ltd.	PhiXGen Pvt. Ltd.	2019	1 year	To advance research and improve bioinformatic skills	
5	MOU between ANDC and The Azim Premji University	The Azim Premji University	2018	till date	-	
6	Th!nk Lab– Collaboration with CUBE	Homi Bhabha Centre for Science Education, TIFR, Mumbai	2010	till date	Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.	
2020-21						
1	Society of Photo-Optical Instrumentation Engineers (SPIE)	SPIE USA	2010	till date	1. Chapter organized another training session. This time it was an online webinar session of 5 days about Hybrid Mobile App Development with Flutter which was conducted from July 13-17, 2020, via Google meet.	
					2. Conducted a 5-day workshop on on Data Science with Python on March 3, 2021.	https://www.andcollege.du.ac.in/ar_2021/mobile/
2	International Bacteriophage Research Consortium	Open Health System Laboratory, USA	2018	till date	1. Prof. Yves Briers, Associate Professor at the Department of Biotechnology at Ghent University, Belgium on 'From discovery to	6 Teachers Dr Urmi Bajpai, Dr Abhishek Mehta, Dr Satendra Singh, Dr Namita Singh, Dr Rimpy Singh, Dr
					2. Prof. Paul Turner, Rachel Carson Professor of Ecology & Evolutionary Biology & Microbiology, Yale University; Faculty	
					3. IBRC-Phage Directory webinar series on 'Phage Bioinformatics':1. Dr Deborah Jacobs-Sera, Department of	
					4. Ms Katelyn McNair, University of California Irvine & San Diego State University, USA.Topic:'Phage genome annotation: the right	
					5. IBRC-Phage Informatics Lecture series by Dr. Jason Gill on April 07, 2021.	
					6. Phage Bioinformatics Lecture Series Hosted by IBRC Phage directory on March 30, 2021 by Justin Clark.	
3	Science Setu	Department of Biotechnology	2016	3 Years	-	
4	MOU between ANDC and PhiXGen Pvt. Ltd.	PhiXGen Pvt. Ltd.	2019	1 year	-	
5	MOU between ANDC and The Azim Premji University	The Azim Premji University	2018	till date	,-	
6	Th!nk Lab– Collaboration with CUBE	Homi Bhabha Centre for Science Education, TIFR, Mumbai	2010	till date	Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.	
7	National Programme on Technology Enahanced Learning	A Joint venture of Indian Institutes of Tachnology and Indian Institute of Science	2019	till date	-	
2021-22						
					a. The SPIE Student Chapter at Acharya Narendra Dev College, University of Delhi partnered with Brain Mentors Pvt. Ltd to organize an online workshop (Full Stack Web Development Using Mern) focusing on Web Development using the latest industry-ready tools. On March 05, 2022	

1	Society of Photo-Optical Instrumentation Engineers (SPIE)	SPIE USA	2010	till date	b. SPIE Student Chapter organized a one-day offline workshop on Holography, conducted by an esteemed faculty Dr Sanjay Kumar on 14th March 2021.	
					c. The SPIE Student Chapter of Delhi at Acharya Narendra Dev College partnered with Touch Techno to bring a fun and informative physical hands-on one day workshop in the college on March 26, 2022.	
					d. The SPIE Student Chapter of Delhi at Acharya Narendra Dev College organised webinar session on Career Opportunities in Public on February 4, 2022.	
2	International Bacteriophage Research Consortium	Open Health System Laboratory, USA	2018	till date	IBRC Symposium : Phage Lysins: Promising alternatives to antibiotics on July 09, 2021.	
3	MOU between Entrepreneurship Cell of Open Learning, University of Delhi and ANDC	Entrepreneurship Cell of Open Learning, University of Delhi	2021	1 Year	-	
4	MOU between Auburn University and ANDC	Auburn Unversity, Montgomery, Aalabama, USA	2021	3 years	ANDC signed a MoU with Auburn University at Montgomery, USA. They have organized a webinar on "Setting Up for Success for the Health Professions" on 12/10/2022.	
5	MOU between Monster.com India Private Limited and ANDC	Monster.com India Private Limited	2022	1 Year	employment opportunities and prepare them for the job market.	
6	Science Setu	National Institute of Immunology	2022	3 Years	-	
7	Collaboration with IIT, Delhi	IIT, Delhi	2021	3 months	Organized an online workshop on Initiating Virtual Labs in collaboration with IITD on August 24, 2021.	
8	Skill Hub Initiative Under PMKVY	Skill India	2022	till date	Acharya Narendra Dev Kaushal Kendra, Skill Hub @ ANDC is selected as a Training Provider for the two Courses – 400 hour "Web Developer" Course and 340 hour "Jam, Jelly and Ketchup	
9	Th!nk Lab– Collaboration with CUBE	Homi Bhabha Centre for Science Education, TIFR, Mumbai	2010	till date	Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.	
10	National Programme on Technology Enahanced Learning	A Joint venture of Indian Institutes of Tachnology and Indian Institute of Science	2019	till date	-	

SPIE 2010 – Till Date

SPIE

The Board of Directors of SPIE hereby awards this

Certificate of Recognition

to the:

Acharya Narendra Dev College Chapter

Dr. Amit Garg, Faculty Advisor

Established in accordance with SPIE bylaws.

Approved August 2010

Ralph James
2010 SPIE President

2

Science Setu Thsti 2016-2019

ACHARYA NARENDRA DEV COLLEGE
(UNIVERSITY OF DELHI)

Translational Health Science and Technology Institute (THSTI) is an autonomous institution of the Department of Biotechnology (DBT), Ministry of Science and Technology. The institution was established with a mission to integrate the fields of Medicine, Science, Engineering and Technology into translational knowledge and make the resulting biomedical innovations accessible to human health. THSTI has an array of niche centers of research in a number of interface areas relevant to human health. It aims to develop an eco-system for training and learning and work with the public sector institution and small and medium enterprises (SME) totranslate innovative technologies into medical products for public good.

THSTI has approached Acharya Narendra Dev College vide letter no. Nil dated 13th May, 2016 (attached) to participate in the prestigious program **Science Setu** where Indian Scientists are to actively involve themselves in teaching in schools/colleges. Through this program, our college shall participate in the following scientific activities that shall be funded by THSTI:

   i)   Lectures/interactive sessions by eminent faculty of the institute.

   ii)   Visit of some selected college students to the institute to understand the setting of a research cum academic institution.

   iii)   Facilitation of science exhibitions in the college and awarding the best performers.

   iv)   Participation in inter-collegiate quiz / seminar competition among the partner schools / colleges of THSTI.

The aims/activitiesproposed under the scheme are in synchrony with the ongoing research and entrepreneurships initiatives in the college. It shall provide an excellent opportunity for students as well as to faculty to improve their scientific skills.The college needs to sign a **Memorandum of Understanding** (MoU) with THSTI in the presence of DBT Secretary on 18th July 2016so as to be part of this **Science Setu** initiative. A draft of the MoU is attached for your kind perusal. You are requested to kindly give permission to the Principal to sign this MoU(attached) on behalf of the college.

Principal 7/16

Chairperson, Governing Body

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13th May 2016

To,

Dr. Savithri Singh, Principal
Acharya Narendra Dev College
University of Delhi
Govindpuri, Kalkaji
New Delhi- 19.

Subject: Invitation for participation of your College in 'Science Setu' Program being organized at THSTI

Dear Dr. Singh,

This letter is being sent as a follow-up of the speech of our Hon'ble Prime Minister of India wherein he had called upon Indian Scientists to actively involve themselves in teaching in schools/colleges. This program is titled as 'Science Setu' program. It has been decided by our Governing Body to enter into a MoU with interested colleges for the fulfillment of the direction of our Hon'ble Prime Minister.

2. The following is a brief of our institution:

i) Translational Health Science and Technology Institute (THSTI), an autonomous institution of the Department of Biotechnology, Ministry of Science and Technology, Government of India, came into existence on 15th July 2009, with a mission to integrate the fields of Medicine, Science, Engineering and Technology into translational knowledge and make the resulting biomedical innovations accessible to human health. The institution strives to effectively enhance the quality of human life by inculcating a culture of shared excellence through amalgamation of various disciplines. This institution is funded primarily by the Government of India.

ii) THSTI has an array of niche centers of research in a number of interface areas relevant to human health. The **Vaccine and Infectious Disease Research Centre (VIDRC)** is armed with the mission to study infectious diseases and pathogens and understand host-pathogen interactions at the molecular and cellular level with an aim to generate translational knowledge for developing normal novel prophylactic and therapeutic measures against diseases prevalent in India. The primary goal of the **Pediatric Biology Centre (PBC)** is to serve as an interdisciplinary research center where research on the biological basis of childhood health and disease leads to the creation of knowledge-driven interventions and technologies that can be sustainably implemented. The **Centre for Human Microbial Ecology (CHME)** investigates the outstanding association between the microorganisms and the human host and attempts to understand the role and effect of microorganisms in human health and disease. The **Centre for Bio-Design (CBD)** endeavors to transform the field by creating novel medical technology enterprise in India for affordable health care through a bio-design process. The **Drug Discovery Research Centre (DDRC)** works towards integrating basic and translational research in the field of drug discovery with a mission to combine multiple disciplines to generate a

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robust and versatile pipeline for drug discovery research. The **Policy Centre for Biomedical Research (PCBR)** aims to bridge the huge gap that exists between health researchers and those who implement and are impacted by that research by providing technology analysis that could guide strategic planning to ensure the dual goal of meeting the local health needs and global supply of health technologies. Finally, the extramural unit of THSTI in the form of the **Clinical Development Services Agency (CDSA)** is created to facilitate development of affordable healthcare products for public health diseases. Registered as a not-for-profit research organization, it aims to develop an eco-system for training and learning and work with public sector institutions, and small and medium enterprises (SME) to translate innovative technologies into medical products for public good.

3. Under the 'Science Setu' program, following are some of the activities which will be funded by THSTI initially for your college:-

   i) Lectures by eminent faculty of this institute. Please visit our website www.thsti.res.in to see the exceptional credentials of our faculty.

   ii) Organizing visit of some selected students of your college to this Institute to understand the setting of a research cum academic institution.

   iii) Facilitating science exhibitions in your college and awarding the best performers. The best entries of your college may qualify for inter-collegiate competition with partner schools/colleges of THSTI which would be held in THSTI.

   iv) Participation in inter-collegiate quiz / seminar competition among the partner schools / colleges of THSTI.

4. The above activities are only suggestive and other activities may be considered in consultation with your college authorities. Since, we are planning for a ceremonious signing of MoU with your college on 15th July 2016, your reply as to whether your college is interested to partner with THSTI in the 'Science Setu' program may kindly be communicated to the undersigned on or before 30th May 2016.

We hope that your institution will be interested in this program for the overall development of your students. We will be glad to meet you on a mutually convenient date, time and venue to discuss more about this program preferably in our campus which is among the greenery of the Aravalli hills. For any clarifications, please contact Mrs. Rajni Verma during office hours at 0129-2876405.

With Best Wishes

Yours Sincerely,

(Prof. Kanury V. S. Rao)
THSTI- National Chair
& Coordinator, Science Setu
E-Mail: kanury@thsti.res.in

13th May 2016

To,

Dr. Savithri Singh, Principal
Acharya Narendra Dev College
University of Delhi
Govindpuri, Kalkaji
New Delhi- 19.

<u>Subject</u>: Invitation for participation of your College in 'Science Setu' Program being organized at THSTI

Dear Dr. Singh,

This letter is being sent as a follow-up of the speech of our Hon'ble Prime Minister of India wherein he had called upon Indian Scientists to actively involve themselves in teaching in schools/colleges. This program is titled as 'Science Setu' program. It has been decided by our Governing Body to enter into a MoU with interested colleges for the fulfillment of the direction of our Hon'ble Prime Minister.

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   i) Translational Health Science and Technology Institute (THSTI), an autonomous institution of the Department of Biotechnology, Ministry of Science and Technology, Government of India, came into existence on 15th July 2009, with a mission to integrate the fields of Medicine, Science, Engineering and Technology into translational knowledge and make the resulting biomedical innovations accessible to human health. The institution strives to effectively enhance the quality of human life by inculcating a culture of shared excellence through amalgamation of various disciplines. This institution is funded primarily by the Government of India.

   ii) THSTI has an array of niche centers of research in a number of interface areas relevant to human health. The **Vaccine and Infectious Disease Research Centre (VIDRC)** is armed with the mission to study infectious diseases and pathogens and understand host-pathogen interactions at the molecular and cellular level with an aim to generate translational knowledge for developing normal novel prophylactic and therapeutic measures against diseases prevalent in India. The primary goal of the **Pediatric Biology Centre (PBC)** is to serve as an interdisciplinary research center where research on the biological basis of childhood health and disease leads to the creation of knowledge-driven interventions and technologies that can be sustainably implemented. The **Centre for Human Microbial Ecology (CHME)** investigates the outstanding association between the microorganisms and the human host and attempts to understand the role and effect of microorganisms in human health and disease. The **Centre for Bio-Design (CBD)** endeavors to transform the field by creating novel medical technology enterprise in India for affordable health care through a bio-design process. The **Drug Discovery Research Centre (DDRC)** works towards integrating basic and translational research in the field of drug discovery with a mission to combine multiple disciplines to generate a

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robust and versatile pipeline for drug discovery research. The **Policy Centre for Biomedical Research** (PCBR) aims to bridge the huge gap that exists between health researchers and those who implement and are impacted by that research by providing technology analysis that could guide strategic planning to ensure the dual goal of meeting the local health needs and global supply of health technologies. Finally, the extramural unit of THSTI in the form of the **Clinical Development Services Agency (CDSA)** is created to facilitate development of affordable healthcare products for public health diseases. Registered as a not-for-profit research organization, it aims to develop an eco-system for training and learning and work with public sector institutions, and small and medium enterprises (SME) to translate innovative technologies into medical products for public good.

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   iv) Participation in inter-collegiate quiz / seminar competition among the partner schools / colleges of THSTI.

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We hope that your institution will be interested in this program for the overall development of your students. We will be glad to meet you on a mutually convenient date, time and venue to discuss more about this program preferably in our campus which is among the greenery of the Aravalli hills. For any clarifications, please contact Mrs. Rajni Verma during office hours at 0129-2876405.

With Best Wishes

<div align="right">

Yours Sincerely,

(Prof. Kanury V. S. Rao)
THSTI- National Chair
& Coordinator, Science Setu
E-Mail: kanury@thsti.res.in

</div>

MEMORANDUM OF UNDERSTANDING FOR IMPLEMENTING THE *SCIENCE SETU* PROGRAMME IN COLLEGES

This Memorandum of Understanding (MoU) between The TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE (THSTI), and ACHARYA NARENDRA DEV COLLEGE, hereinafter called parties of the first part and second part respectively.

2. WHEREAS THSTI located at NCR-Biotech Science Cluster, 3rd milestone, Faridabad-Grugaon Expressway, Po box no. 04, Faridabad-121001 is an autonomous institute of the Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India, registered under the Society Registration Act, 1860;

3. WHEREAS, ACHARYA NARENDRA DEV COLLEGE is located at GOVINDPURI, KALKAJI, NEW DELHI 110019;

4. WHEREAS, The *Science Setu* Programme approved by the Governing Body of the THSTI aims to contribute to the national goal of encouraging more and more bright young minds to take up the pursuit of science and technology as a career option,

5. WHEREAS, both parties of the first- and second part wish to come together in synergistic partnership to implement the above-said *Science Setu* Programme, this Memorandum of Understanding is being executed to clarify the intent and purpose and mode of implementation of the programme.

6. Now, the parties of this MoU mutually declare and agree to the following:

   6.1 Name

   The name of the programme will be **THSTI-ACHARYA NARENDRA DEV COLLEGE *Science Setu* Programme**

   6.2 Goal

   To contribute to the national goal of encouraging more and more bright young minds to take up the pursuit of science and technology as a career option.

   6.3 Objectives
   a) To address the changing needs of teaching, learning and research in biological sciences
   b) To link the Translational Health Science and Technology Institute (THSTI) in the spirit of "success through access" to undergraduate teaching in biological sciences
   c) To engage a talent pool of potential biology students in the delivery of innovation, research and continuous development
   d) To act, through all the above, as a catalyst of change

   6.4 Mode of Implementation
   a) THSTI and ACHARYA NARENDRA DEV COLLEGE commit themselves to interact through mutual consultation and formal partnership towards meeting the goal and objectives of the programme.
   b) Engagement with the ACHARYA NARENDRA DEV COLLEGE by THSTI would be on-site, and/or through *e-learning* approaches depending on feasibility.
   c) This commitment shall be treated as a national service intrinsic to the mandate of THSTI, and ACHARYA NARENDRA DEV COLLEGE and shall neither involve

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remuneration/honoraria in any form, nor be treated as a cause for modification of any current institutional goals.

d) Adequate flexibility would be built in to ensure that the programme adds value to undergraduate education.

e) The level of engagement and the best time to commence the same will be decided through mutual consultation.

f) Programme of engagement could include one or more of the following depending on specific need and feasibility:

    (i) Lectures/discussion
    (ii) Laboratory exercises
    (iii) Mentorship to student science projects
    (iv) Mentorship to teacher science projects
    (v) 'College Teacher Forums' to discuss broad issues on latest developments in science, career opportunities, innovative methodologies in teaching/research, science & technology policy issues, and other related areas.
    (vi) Summer student/teacher internships
    (vii) Any other as mutually agreed

6.5   Role and Responsibilities of THSTI

a) THSTI commits to designate a mutually agreed number of its scientists/faculty members toward this programme for at least 12 hours of engagements per year.

b) This may be distributed flexibly by the designated scientist within each centre of THSTI.

c) THSTI will take care of the logistics of conveyance of the scientist(s) to and from the College, whenever the interaction is on site or outside THSTI.

d) Depending on feasibility, THSTI would make appropriate arrangements in consultation with ACHARYA NARENDRA DEV COLLEGE for e-learning at its end.

e) Depending on feasibility, THSTI will also facilitate interaction on its premises.

6.6   Role and Responsibilities of ACHARYA NARENDRA DEV COLLEGE

a) ACHARYA NARENDRA DEV COLLEGE commits to receive and appropriately facilitate the interaction between the designated THSTI faculty / scientist (s), and its teachers/students so as to fulfil the goal and objectives of the programme.

b) It will designate a nodal person to interact with the THSTI scientist (s).

c) It will take care of the logistics of conveyance of its teachers/students whenever the interaction is outside its premises

d) Depending on feasibility, ACHARYA NARENDRA DEV COLLEGE would make appropriate arrangements in consultation with THSTI for e-learning at its end.

6.7   Budget for the Programme

The programme will be accommodated within the annual budget of each party.

6.8   Programme Review

The Governing Body of THSTI shall review the programme for implementation at the end of one year for implementation and three years for performance.

6.9   Termination

Either party to this MoU has the right to terminate the MoU upon serving a written notice of 30 days to the other party should the other party commit a breach of any of the provisions of this MoU.

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6.10   Interpretation and Dispute Resolution

    a) If any dispute arises between the parties hereto arising out of or in connection with the interpretation or implementation or alleged breach of any provision of this MoU, the parties hereto shall endeavour to settle such breach amicably.

    b) In case the dispute cannot be resolved after reasonable attempts within 5 days, one of the parties shall give a written notice to the other to this effect. In such a case the matter shall be referred to the Executive Director, THSTI as a sole arbiter, whose decision will be binding on both the parties.

7.   This MoU is valid for three years from the date of signing. It can be extended further through mutual agreement.
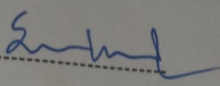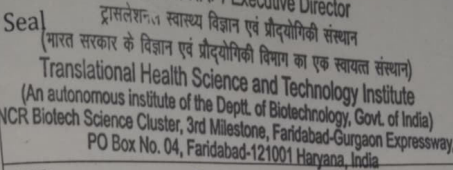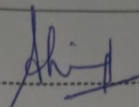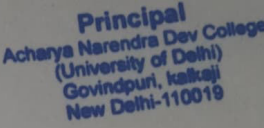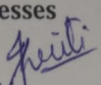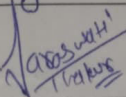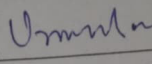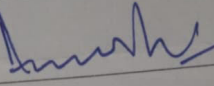
IN WITNESS WHEREOF THE PATIES HERETO HAVE EXECUTED THIS MoU ON MONDAY, 18th, JULY 2016.

Signed--- For and on behalf of Translational Health Science and Technology Institute Seal	Signed--- For and on behalf of ACHARYA NARENDRA DEV COLLEGE Seal
Witnesses	**Witnesses** 1.
1.	2.
2.	

b) In case the dispute cannot be resolved after reasonable attempts within 5 days, one of the parties shall give a written notice to the other to this effect. In such a case the matter shall be referred to the Executive Director, THSTI as a sole arbiter, whose decision will be binding on both the parties.

7. This MoU is valid for three years from the date of signing. It can be extended further through mutual agreement.

IN WITNESS WHEREOF THE PATIES HERETO HAVE EXECUTED THIS MoU ON ....18........(DAY), ...(DATE), July..(MONTH) 2016.

Signed---------- [signature]	Signed----- [signature]
For and on behalf of Translational Health Science and Technology Institute कार्यकारी निदेशक / Executive Director Seal ट्रांसलेशनल स्वास्थ्य विज्ञान एवं प्रौद्योगिकी संस्थान (भारत सरकार के विज्ञान एवं प्रौद्योगिकी विभाग का एक स्वायत्त संस्थान) Translational Health Science and Technology Institute (An autonomous institute of the Deptt. of Biotechnology, Govt. of India) NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurgaon Expressway, PO Box No. 04, Faridabad-121001 Haryana, India	For and on behalf of Acharya Narendra Dev College Seal **Principal** **Acharya Narendra Dev College** **(University of Delhi)** **Govindpuri, kalkaji** **New Delhi-110019**
Witnesses 1. [signature] (KRITI KOHLI) 2. [signature] (Ms. Saraswati Thakur)	**Witnesses** 1. Urmila Dr. Umi Bapa 2. [signature] (Dr. Amit hary)

Creative Commons Affiliate 2013-2018

cc creative commons

6 May 2018

Sarita Kumar
Acharya Narendra Dev College, University of Delhi

Re: Institutional Membership in the Creative Commons Global Network ("CCGN")

Dear Sarita Kumar,

This letter confirms that your institution's application for membership in the CCGN has been approved. This letter subject to your agreement with the terms and conditions of this letter. Please review carefully and return a countersigned copy to legal@creativecommons.org.

1. In light of the new structure of the Creative Commons Global Network, the Memorandum of Understanding dated 30 April 2013 between Creative Commons and Acharya Narendra Dev College, University of Delhi was terminated by CC as of 13 April 2018.

2. You confirm that Acharya Narendra Dev College, University of Delhi has not registered any trademarks incorporating the CC name, the double-c in a circle, or other trademarks of CC. Any ongoing use of Creative Commons trademarks in connection with your membership is governed by our trademark policy (https://www.creativecommons.org/policies).

3. You represent and warrant that you are an authorized representative of Acharya Narendra Dev College, University of Delhi and have all power and authority necessary to enter into this agreement on its behalf. By signing below, Acharya Narendra Dev College, University of Delhi's agrees to the CCGN Charter at https://creativecommons.org/wp-content/uploads/2017/11/Global_Network_Membership _Charter.pdf and is bound by its terms.

Please sign below to indicate Acharya Narendra Dev College, University of Delhi's agreement with the foregoing. Once returned, your Institutional Membership in the CCGN will become effective. Congratulations!

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Very truly yours,

Diane M. Peters, General Counsel

SO ACKNOWLEDGED, ACCEPTED, AND AGREED

Acharya Narendra Dev College, University of Delhi

By: Sarita Kumar

Title:

Acharya Narendra Dev College
(University of Delhi)
Gobindpuri, Kalkaji
New Delhi-110019

Date: 6 May 2018

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Th!nk Lab– Collaboration with CUBE 2010-Till Date

COLLABORATIVELY UNDERSTANDING BIOLOGY EDUCATION (CUBE)

CUBE Regional Resourse Centre Award

CUBE Regional Resourse Centre Award 2020 is conferred on the following CUBE Hubs for catering to Nodal Centres:

Sree Narayana College, Nattika, Thrissur, Kerala
Acharya Narendra Dev College, Govindpuri, New Delhi

Prof. M. C. Arunan
Coordinator, CUBE

Prof. Nagarjuna G.
Coordinator, metaStudio

Homi Bhabha Centre for Science Education
Tata Institute of Fundamental Research

International Bacteriophage Research Consortium 2018-Till Date

Open Health Systems Laboratory, San
Jose, CA; Baltimore Maryland, USA
www.ohsl.us

Acharya Narendra Dev College
(University of Delhi) Govindpuri,
New Delhi, India
http://andcollege.du.ac.in

Memorandum of Understanding

Memorandum of Understanding between Acharya Narendra Dev College, University of Delhi (ANDC-DU), in the Republic of India and Open Health Systems Laboratory (OHSL), a social benefit corporation established under the laws of the State of California in the United States of America, covers primarily their collaboration to establish an International Bacteriophage Research Consortium (IBRC) and pursue further research.

The pioneering work of the Antimycobacterial Drug Discovery Laboratory of Dr. Urmi Bajpai of the Department of Biomedical Science provides the base for collaboration between the ANDC-DU and OHSL.

ANDC is a constituent college of University of Delhi, located in Govindpuri, New Delhi-19, India. OHSL has its offices in Silicon Valley (152 North Third Street, Suite 800, San Jose, CA 95112) and research facility in the University of Maryland BioPark, Lion Brother Building, 875 Hollins Street, Baltimore, Maryland 21201).

ANDC-DU and OHSL have already created a web portal for International Bacteriophage Research Consortium (IBRC) with the URL http://bacteriophage.ohsl.us and are pursuing with biomedical collaborations with several research institutes in India and abroad for their participation in a global research network. The collaborations will define the roadmap for research and scientific publications.

Further, ICTBioMed: International Consortium for Technologyin Biomedicine (https://nciphub.org/groups/ictbiomed) led by OHSL, will provide the bioinformatics platform for bacteriophage research and analysis worldwide.

Working together ANDC-DU and OHSL will be developing funding proposals to support and equip research and research facilities at the Drug Discovery Laboratory of the Department of Biomedical Science and complementary facilities at the international research centre of Open

19
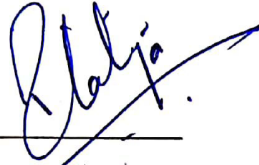
Health Systems Laboratory which will be established in Jhajjar, Haryana, in the Indian Institute of Technology Delhi Biotechnology Park alongside All India Institute of Medical Sciences National Cancer Institute. OHSL has existing research collaboration with both these institutes. The Drug Discovery Laboratory will include antimicrobial drug discovery research.

Signed this 2018 in Delhi on behalf of

Acharya Narendra Dev College,

University of Delhi
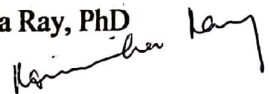
Open Health Systems Laboratory,

USA

Ravi Toteja, PhD

_____

Acting Principal

Officiating Principal
Acharya Narendra Dev College
(University of Delhi)
Govindpuri, Kalkaji
New Delhi-110019

Koninika Ray, PhD

_____

Director, Biomedical Research, OHSL

Koninika Ray, Ph.D.
Director, Biomedical Research
Open Health Systems Laboratory
koninika.ray@ohsl.us
+91 9958284900

MOU between ANDC and The Azim Premji University 2018-Till Date

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is entered into on this 26th Day of July Two Thousand and Eighteen between
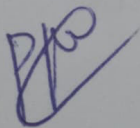
Azim Premji University, a private University established under The Azim Premji University Act, 2010 (Karnataka Act No. 14 of 2010) with its principal place of operations at Pixel Park, B Block PES Institute of Engineering Campus, Electronics City, Hosur Road (Behind NICE Road) Bangalore – 560 100; and a division of Azim Premji Foundation for Development, a section 25 company registered under the companies act, 1956 and having its registered office at #134, Doddakanelli, Next to Wipro Corporate Office, Sarjapura Road, Bangalore- 560035, hereinafter referred to as "University" (which expression shall, unless repugnant to the context, include its successors in interest, administrators and assigns)of the One Part;

And Acharya Narendra Dev College (ANDC) (hereinafter referred to as "College") with its principal place of operations at Govindpuri, Kalkaji, New Delhi-110019 of the other Part.

And Whereas University and College shall be referred to individually as "Party" and jointly as "Parties".

1. **SCOPE**

    a. University is interested in generating science education resources in Indian languages. College is interested in expansion of sciences, mathematics and their education in general. Both Parties admit students to their undergraduate science programs many of whom are making a transition from education in their own languages to English as a medium of instruction. These interests provide a common ground for collaboration.

    b. Both Parties welcome collaboration between their members including faculty and students on projects related to resource generation for science and mathematics pedagogy.

    c. Parties will provide whatever facilities are possible to facilitate the collaborative projects from time to time.

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d. The individuals participating in the collaborative projects as well as work for the common goals of the organizations can receive remuneration for their work from either Party on individual basis.

e. The modalities of these projects and their specific nature and details would be discussed and specific agreements about their functioning agreed to as and when the occasions arise.

2. TERM AND TERMINATION
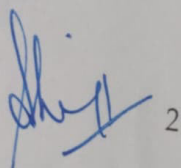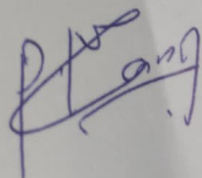
a. This MOU shall commence from 1st August 2018 ("Effective Date") and shall remain effective till 31st July, 2023. The MOU maybe further extended based on mutual agreement

b. Either Party may terminate this MOU for convenience by giving (thirty) 30 days' notice to the other of its intention to do so.

3. CONFIDENTIALITY

a. Either Party shall hold in confidence all confidential information obtained, received from the other and shall not disclose the same to any third Party without prior written consent of the other, during the term of this MOU and for a period of 5 years from the date of termination of this MOU. Further, unless prior written consent of the either Party is obtained, the other Party shall not use the above mentioned information for any purpose other than the purpose contemplated under this MOU.

b. "Confidential information" means all information, marked, designated as such by either Party in writing together with all such information which relates to the business affairs, products, developments, trade secrets, know-how, personnel, customers and suppliers of either Party, or which may be reasonably regarded as the Confidential Information of the disclosing Party. This Clause shall survive the expiration or termination of this MOU.

4. INTELLECTUAL PROPERTY

a. Any material developed under the MOU would be subject to the copyright rules applicable to the material and both parties are responsible to follow it in letter and spirit. The name of the author/translator and of both the institutions will be acknowledged in the materials generated. It shall be a binding on both the parties under this MOU to follow the terms agreed to in the development of the materials, and if there are more conditions imposed by the copyright law.

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a. **If to University:** Azim Premji University, # 134, Doddakannelli, Next to Wipro Corporate Office, Sarjapura Road, Bangalore- 560 035

b. **If to College:** Acharya Narendra Dev College, Govindpuri, Kalkaji, New Delhi-110019

b. *Applicable Law.* This MOU shall be governed by the Laws in India and each of the Parties submit to the jurisdiction of the courts of Bangalore.
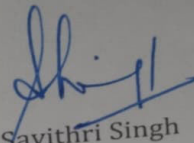
IN WITNESS WHEREOF the Parties hereto have duly caused these presents to the executed on the day, month and year first above written.

By:

Name: Manoj P
Registrar,
Azim Premji University,
Date:

By:

Name: Savithri Singh
Principal,
Acharya Narendra Dev College,
Date:

MOU between ANDC and PhiXGen Pvt. Ltd. 2019 (For one Year)

MEMORANDUM OF UNDERSTANDING
Between

Acharya Narendra Dev College, University of Delhi
Govindpuri, Kalkaji - 110019

And

PhiXgen Pvt. Ltd.
(FLAT NO. 101, Sector 47, GH-11 ATLANTIS CGHS LTD. GURUGRAM Gurgaon HR IN 122001)

Background

I. About PhiXGen Pvt. Ltd.

PhiXGen is committed to delivering quality services with unmatched quality. It was established on January 30, 2018. The major focus of the firm is to work towards innovation, development, deployment, and commercialization of products and services. The work mandate includes providing technical services to beginners who are facing difficulties in their projects. This primarily includes support for Next Generation Sequencing projects for Genomics, Transcriptomics and Proteomics studies. We purpose to serve various national and international government and private sector agencies like industries/universities/colleges/autonomous body/Department etc. The wide scope of the firm also includes the onsite/offsite/online training courses for graduates/post-graduates and corporates professionals.

II. About Acharya Narendra Dev College (ANDC)

Acharya Narendra Dev College was established in 1991 as a constituent college of University of Delhi and is fully funded by Government of NCT, Delhi. The college is named after the great educationist and reformist of modern India, Acharya Narendra Deva. Over the years, the college has acquired repute for the quality of education imparted to the students, the discipline and dedication of the students and the faculty, the exposure and opportunities available for overall development of both faculty and students and the sense of social responsibility within its walls. Extra curricular activities like sports, theatre, debates, music, eco-club, NSS etc engage students when they are not in class. To create an education and research-oriented hub of eminence in India with international standards. We envisage proffering quality education to our students while emboldening them with diverse exposure and hands-on research. We adhere to the ideology of 'Preparing for the future' by exploring and innovating 'Beyond the classroom'

Mission

1. Empower students by giving them exposure to cutting-edge areas of education and research by promoting inter-disciplinary studies and learning beyond the shackles of textbook knowledge.

2. To impart functional knowledge which not only motivates students towards academic excellence but also preparing them for giving back to society in economic, social, cultural and intellectual dimensions.

3. To generate ideas that will benefit society, and to educate and train people to work in fields where they will be valued both for their ability to work in collaborative spaces using their specialized knowledge, and for their ability to pursue research, communicate and solve real-life problems.

4. To remain competitive and relevant in international sense by offering high quality academic programmes and research activities focusing on niche areas.

5. Encourage skilled manpower training by producing more high quality researchers, entrepreneurs and graduates to ensure that country reaps the returns from its investments in higher education and in turn help economic growth of the country.

III. **Joint Activities**

PhiXgen Pvt. Ltd. and ANDC will work together to explore activities of mutual interest that endeavour to advance research and improving bioinformatic skills and its responsible application worldwide. Specific activities will be outlined in a separate PhiXGen-ANDC Work plan for individual events.

IV. **Funding**

PhiXGen Pvt. Ltd. and ANDC acknowledge that this MOU is a reflection of the goodwill and mutual interest that exist between the two partners. It represents the desire to develop and expand collaborative activities. **No financial commitment is implied by this MOU.** Each individual activity initiated as outcome of this MOU will specify the roles and responsibilities of each society, the duration of the activity, and the source of funding.

V. **Effective Date and Duration**

This agreement will take effect upon its signing by the representatives/authorised signatory of **PhiXGen Pvt. Ltd. and ANDC** and shall remain in effect for a period of one year.

IN WITNESS WHEREOF PARTIES UNDERSIGNED HAVE ENTERED INTO THIS AGREEMENT WITH EFFECT FROM 01/10/2019.

For PhiXGen Pvt. Ltd.

Prof. Rup Lal   01/10/2019
Managing Director

Dr. Vipin Gupta   1/10/19
Director

Dr. Utkarsh Sood   01/10/19
Director

For Acharya Narendra Dev College

Dr. Ravi Toteja   01/10/19
Acting Principal

Dr. Yasheshwar   01/10/2019
Coordinator, IQAC

Dr. Seema Makhija   1/10/19
Coordinator

National Programme on Technology Enahanced Learning (2019-Till Date)

NATIONAL PROGRAMME ON TECHNOLOGY ENHANCED LEARNING

A JOINT VENTURE BY INDIAN INSTITUTES OF TECHNOLOGY & INDIAN INSTITUTE OF SCIENCE

NPTEL

2019-10-03

To
The Principal
ACHARYA NARENDRA DEV COLLEGE, UNIVERSITY OF DELHI
GOVINDPURI, KALKAJI, NEW DELHI-110019

Dear Sir/Madam,

Sub: Establishing SWAYAM NPTEL Local Chapter in your college

Greetings from the NPTEL office.

This is to acknowledge the receipt of your letter accepting to host SWAYAM NPTEL Local Chapter in your institution.

The **Single Point of Contact (SPOC)** nominated from your college is

Name of SPOC: DR. GAGAN DHAWAN
Designation: ASSOCIATE PROFESSOR
Department:BIOMEDICAL SCIENCE
Contact No(s):9891086006
E-mail id: gagandhawan@andc.du.ac.in

We wish to inform you that all future correspondence related to NPTEL contents and online courses will be made to the afore-mentioned SPOC. He/she will be routinely updated with all the latest NPTEL initiatives which then may be circulated among the students.

We are also happy to share that a dedicated SWAYAM NPTEL Local Chapter web page is being created and your institution will have a separate page on it (http://archive.nptel.ac.in/LocalChapter)

Thanking you.

Sincerely

Prof. Andrew Thangaraj

NPTEL Coordinator

IIT MADRAS

MOU between Entrepreneurship Cell of Open Learning, University of Delhi and ANDC 2021 (For one Year)

ACHARYA NARENDRA DEV COLLEGE

Preparing for the future...

आचार्य नरेंद्र देव कॉलेज

तैयारी भविष्य की...

University of Delhi दिल्ली विश्वविद्यालय | NAAC accredited: A Grade एन.ए. ए.सी मान्यता प्राप्त: 'ए' ग्रेड

Ref./ संदर्भ: ANDC

Dated/ दिनाँक:

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding has been made and executed at Delhi on September 09, 2021

BETWEEN

Entrepreneurship Cell School of Open Learning (herein after referred to as "Entrepreneurship Cell, School Of Open Learning , University Of Delhi") , University of Delhi, represented by Mr. Anurag Mittal, engaged in facilitating Skill Development and Entrepreneurship ecosystem through different interventions of training, research, mentoring, business and career coaching, vocational programs etc. with its campus at 1st Floor, School of Open Learning, 5 Cavalry Lines, University of Delhi-110007, North Campus for cooperation on providing Entrepreneurial services through Entrepreneurship Cell (hereafter called the Party of the First Part or the First Party);

AND

Acharya Narendra Dev College, University Of Delhi represented by Prof. Ravi Toteja (hereinafter referred to as "ANDC", which expression shall, unless it be repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) of the Second Part; (thereafter called the Party of the Second Part or the Second Party) having its registered office at Govindpuri, Kalkaji, New Delhi- 110019.
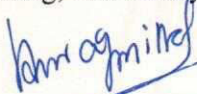
Anurag Mittal
Incharge - E Cell SOL DU
Entrepreneurship Facilitation Center
Room no.118, 1st Floor, 5 Cavalry lines
North Campus ,University of Delhi - 110007

1. AGREEMENT

The present agreement supersedes all prior understandings, communications and representations concerning the subject matter between the Parties.

2. LEGAL STATUS OF THE PARTIES

. 2.1. The School of Open Learning a part of the Campus of Open Learning] formerly known as The School of Correspondence Courses and Continuing Education, established under the University of Delhi in 1962, is a pioneer Institution in the field of Distance Education in India. In December 2018 to facilitate Skill Development and Entrepreneurship amongst Youth, SOL has set up Department of Entrepreneurship Cell at SOL, North Campus, University of Delhi.

. 2.2 Acharya Narendra Dev College was established in 1991 as a constituent college of the University of Delhi. College believes in unfolding the enormous potentialities of the students, empowering them to meet the future challenges and promoting education beyond the classroom wherein innovative teaching methods become harbingers of quality education. Within this short span of journey, the college has received one of the best infrastructures, a NAAC score of 3.31 and 18th NIRF-2020 ranking. The college works on the ideology that education is the most powerful weapon which you can use to change the world.

. 2.3 ANDC which offers skill-oriented Certificate Courses to their students to achieve vocational qualifications besides their Undergraduate degree courses. In this regard "ANDC"desires to offer the Certificate Programme in Entrepreneurship and Start-Up for duration of 6 months under UGC scheme of 'National Skills Qualifications Framework' (NSQF) to their students for 30 credits after 10+2.

. 2.4. Nothing contained in or relating to this Agreement will be construed to create a legal relationship between the Parties, and the officials, representatives, employees, or sub-contractors of either Party will not be considered in any respect as being the employees or agents of the other Party.

Anurag Mittal
Incharge - E Cell SOL DU.
Entrepreneurship Facilitation Center
Room no.118, 1st Floor, 5 Cavalry Lines
North Campus, University of Delhi

3. WHEREAS, the First Party will provide ANDC and incubatee companies under incubation at ANDC with

3.1. Assistance in facilitating and availing of Entrepreneurship schemes by Central and various State governments, International Development Institutions by existing and potential entrepreneurs, including students, alumni, faculty, staff and general public.

3.2. Any other schemes or programmes mutually agreed from time to time.

3.3 Engaging expert/trainer from the industry partners as per UGC guidelines of contractual appointments.

3.4 The workshops and field visits may be organized in collaboration with the industry partner.

4. Entrepreneurship Cell, School Of Open Learning, University Of Delhi will nominate its Nodal Officer for implementation of providing Entrepreneurship
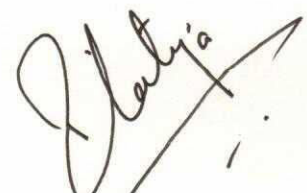
5. The Second Party shall provide Entrepreneurship Cell, School Of Open Learning , University of Delhi with:

5.1. ANDC will provide Honorarium per UGC guidelines and Training Infrastructure and other assistance to Entrepreneurship Cell, School Of Open Learning, University Of Delhi for implementation of the Scope of work as mutually agreed in alignment with Para Nos.2&3 above as per UGC norms.

5.2. Necessary infrastructure / facilities at its premises to enable Entrepreneurship Cell, School Of Open Learning , University Of Delhi to provide knowledge and support to start-ups/ existing and new entrepreneurs and incubatee projects under ANDC

6. The terms of provisions of this MOU may be modified, amended, supplemented, waived, or discharged only in writing signed by the parties hereto.

Anurag Mittal
Incharge - E Cell SOL DU.
Entrepreneurship Facilitation Center
Room no.118, 1st Floor, 5 Cavalry lines
North Campus ,University of Delhi - 110007

7. The MoU will be valid for a period of one year from the effective date. It can be terminated by one month's notice in writing from either of the parties.

8. All the remittances / payments for out of pocket expenses, honorarium will be made by ANDC after receiving relevant invoices from Entrepreneurship Cell, School Of Open Learning , University Of Delhi on the services rendered by E Cell SOL DU, and such payments will be made within 15 days of receiving the invoices.

9. In case of any dispute, this MoU shall be under jurisdiction of Delhi Mediation and Conciliation Rules 2004.
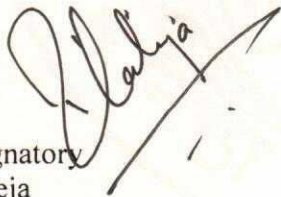
Signed at Delhi by:

For Entrepreneurship Cell School of Open Learning (Entrepreneurship Cell, School Of Open Learning, University Of Delhi)

Anurag Mittal
Incharge - E Cell SOL DU
Entrepreneurship Facilitation Center
Room no.118, 1st Floor, 5 Cavalry lines
North Campus , University of Delhi - 110007

Mr. Anurag Mittal
Incharge Entrepreneurship Cell
School of Open Learning, University of Delhi, MHRD Govt of India
For Sri Aurobindo College (SAC)

Authorised Signatory
Prof. Ravi Toteja
Principal
Acharya Narendra Dev College

MOU between Auburn University and ANDC 2021 (For 3 Years)
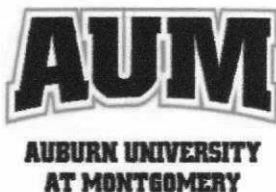
MEMORANDUM OF UNDERSTANDING
ON ACADEMIC CO-OPERATION

Between

Auburn University at Montgomery

And
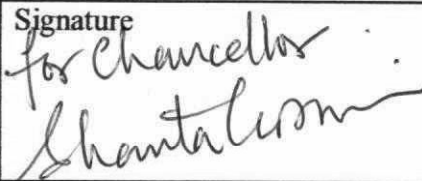
Acharya Narendra Dev College, University of Delhi,
New Delhi, India

Auburn University of Montgomery, Alabama, USA and Acharya Narendra Dev College (ANDC), University of Delhi, Govindpuri, Kalkaji, New Delhi, 110019, India recognising the benefits to their respective institutions desire to form a Memorandum of Understanding (MoU) to promote friendship and to co-operate in a mutually beneficial association, have agreed that:

1 The two institutions shall develop academic and educational partnership to enhance student & faculty learning opportunities between them.
2 This MoU signifies a statement of Intent to collaborate but is not a legally binding document.
3 The two institutions agree to develop the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity.
4 Cooperative exchange programs between the two universities shall cover the following:

   - Promoting student exchange at all levels of study
   - Academic articulation agreements for different programs
   - Encourage international credit transfer and progression arrangements
   - Exchange of research and academic materials that are of mutual interest
   - Collaborative and foster research activities and projects
   - Exchange of teaching expertise
   - Develop e-learning training and application of distance-learning technologies
   - Short duration student exchange and study abroad programs
   - Develop collaborative lectures series, conference and workshops and joint events on mutually agreed topics
   - Cultural immersion programs
   - Any other co-operation in areas of mutual interest.

5 The development and implementation of specific activities based on this MoU will be separately negotiated and agreed between the two institutions, which carry out the specific projects. Both institutions agree to carry out these activities in accordance with the laws and regulations of the respective countries after full consultation and approval.

6 ANDC & AUM recognize the value of this Memorandum of Understanding to each other in promoting their programmes and activities, but any promotional material / activity which includes reference to concerned countries must be sent to and be approved by the person authorized by both the Institutions before use and print.

7 It is understood that the implementation of any of the types of co-operation stated shall depend upon the availability of resources and financial support at the institutions concerned.

8 Should the collaborative research activities under the MoU result in any potential for intellectual property, both institutions shall seek an equitable and fair understanding as to ownership and other property interests that may arise.

9 This MoU may be amended or modified by a written agreement signed by the representatives of both institutions.

10 The MoU will be for 3 years in the first instance and will be reviewed thereafter. Each party has the right to discontinue the arrangement subject to a period of 12 months' notice being given. The Understanding may also be terminated at any time by mutual consent of all the parties.

11 In any case of discontinuance, the parties will honor agreed commitments either via the accepted arrangement or suitable alternative negotiated at that point.

12 The Memorandum of Understanding is to take effect from the date that both institutions sign the agreement.

Signatures to the Understanding

For: Auburn University at Montgomery, Alabama, USA	For: Acharya Narendra Dev College, University of Delhi, Delhi, India
Signature	Signature
Name: Dr. Carl A. Stockton	Name: Prof. (Dr.) Ravi Toteja
Designation: Chancellor	Designation: Officiating Principal
Date: 6 December, 2021	Date: 6 December, 2021

कार्यवाहक प्राचार्य / Officiating Principal
आचार्य नरेन्द्र देव कॉलेज / Acharya Narendra Dev College
(दिल्ली विश्वविद्यालय) / (University of Delhi)
गोविंदपुरी, कालकाजी, नई दिल्ली–110019
Govindpuri, Kalkaji, New Delhi-110019

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MOU between Monster.com India Private Limited and ANDC 2022 (For one Years)

monster

Memorandum of Understanding

This MEMORANDUM OF UNDERSTANDING, herein after referred to as "MOU" is a mutual understanding made at Delhi on the 3.02.2022 by and between Monster.com India Private Limited, a company incorporated under the Indian Companies Act, 1956, having its registered office at 7-1-79,79/5,6,7 & 7-1-80, 1st Floor, Capital Building, Ameerpet, Hyderabad-500016, Telangana, India (hereinafter referred to as 'Monster', which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and assigns) of the FIRST PART;

AND

Acharya Narendra Dev College organized under the Indian Laws having its principal place of business Govindpuri, Kalkaji, Delhi represented by Prof. Ravi Toteja its authorized signatory (hereinafter referred to as 'Institute', which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and permitted assigns) of the SECOND PART. (Monster and Institute are hereinafter collectively referred to as "the Parties" and severally as "Party")

WHEREAS Monster is inter alia in the business of e-recruitment solutions and is responsible for the functioning of its websites www.monsterindia.com and Monster First Job webpage and Institute is in the business of 'Education Provider' and is desirous of taking service from Monster as described hereunder to facilitate Monster's online recruitment solution for opportunity to registered users ("users") at Monster First Job Program, on the terms agreed and contained herein;

NOW, it is agreed between the parties hereto as follows:

1. Responsibilities of Monster

Monster shall provide to Institute post 60% registration of total student strength:

(a) Recruiter attention on the Monster website to students registering on Monster India portal.
(b) Invitation to 'Open to all' Virtual Career Fairs (VCF), Webinars, and any other events organized by Monster India
(c) Internship/ Live Projects/ Final placement opportunities from and at Monster India portal
(d) Fresher job alert mailers to registered students throughout the process
(e) Launch, manage and promote the College Ambassador programme
(f) Webinar of 1.5 hours on one topic related to 'Becoming Corporate Job ready' by Industry Experts
(g) Discounted paid career services, assessment tests ard external training, if any, as per college requirement will be charged on mutually agreed rates as per the deal under Monster First Job Program
(h) Institute shall provide the details of its authorised representative ("SPOC"/ "TPO") to Monster for the Service operation. Monster will provide the details to SPOC after execution of this Agreement. SPOC shall be responsible for providing the Institute's Candidates / Students information to Monster.
(i) The Service provided for the period mentioned above is currently without any financial consideration to the Institute except for a paid career services and other paid services as per sub para g) above.

Any additional services involving financial consideration during the above period shall be undertaken with mutual consent of both parties. The Institute has the sole responsibility to obtain
the programs/projects within

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a. **Monster's Obligation:**

(a) To assist Institute for online recruitment solution of registered users along with any required training session as per Service subscribed. Enhance visibility of the Institute as a brand on Monster platform and marketing communication including online display of Institute's profile to attract companies, as may be feasible; and providing access to its website as stated above and other Monster websites as per between the Parties.

b) Monster will provide a unique link to Institute for registration of its students on   Monster portal. The tracking will happen through this link. Registered students need to complete their profile by regularly updating all relevant details (i.e. Upload Resume, Educational Qualifications, Skills etc.) required during the registration process to enhance visibility on the Monster portal and among recruiters.

c) Monster will provide communication to Institute for circulation among registered users to create awareness and prevent fraudulent calls/ emails from any third party. Monster does not charge candidates in cash or kind for job placements, attending Virtual Career Fair, Webinars or arranging job interviews. Monster will not be responsible for any monetary transactions done by the students to recruiters to get placement. The Institute is responsible to communicate the provisions of this sub clause to its students to avoid any online fraud to its students.

d) Provide informative articles and content delivered through platform and to improve chances of user's employability.

e) Monster does not guarantee or offer any warranty for any response from any employer or recruitment consultants to Institute after the Services commenced by Monster under this Agreement. Monster neither guarantees nor offers any warranty about the credentials of the prospective employer/organisation, which would receive the information and subsequently contact the Institute and/or candidates. Monster reserves its right to reject any insertion or information/data provided by the Institute in the Monster First Job webpage without assigning any reason, Breach any provision of this Agreement by the Institute may lead to discontinuance of subscribed service by Monster and /or pursue all other available remedies under applicable laws.

2. **Institute's Obligation:**

   a. Institute shall provide Monster the name of its authorized representative (SPOC) who shall serve as single point of contact with Monster and ensure submission of Candidates / users' data within the agreed timelines.

   b. Verification of the users' data by SPOC of Institute. Users' data shall include name, education qualification, branch, year and contact details. Inability of Institute to register and verify the users' data shall not entitle the users in availing the services under this Agreement. Institute shall be solely responsible for the submission of any wrong, incomplete or incorrect users' data or profile in the Monster India portal/Monster First Job webpage and the authorized representative of Institute shall be responsible for incorporating the users' data on the Monster website and make changes from time to time in the event of any change in the users data and profile

   c. The Institute shall be responsible for appropriate use of the Services subscribed under this Agreement

d. Institute shall be solely responsible for the Monster First Job Program Services appropriated by it under this Agreement to users and / or candidates. Institute further undertakes that the Services subscribed by it under this Agreement is solely for the purpose of its proper appropriation to the users and/or candidates and not for its commercial use / purpose.

e. By posting user data ("User Content") to any Monster Site, User / Candidate and Institute automatically grant, and represent and warrant that they have the right to grant, to Monster an irrevocable, perpetual, non-exclusive, fully paid, worldwide license to use, copy, perform, display, and distribute such User Content and to prepare derivative works of, or incorporate into other works, such User Content, and to grant and authorize sublicenses thereof.

f. No unauthorised / fraudulent use of user content: Institute shall ensure the usage of content for lawful purposes and only for the purposes as permitted under the scope of this Agreement. Promotion of any illegal activity or marketing of products and other service purposes or spamming of the content by it except for the facilitation of services under this Agreement are also prohibited. Monster shall have the sole right to decide as to what constitute as a breach of these requirements by Institute.

g. Institute undertakes and warrants that the Mobile No./Email id of the candidates provided/uploaded either by Candidate/Institute/Monster to Monster's website for communicating them for the career/tests related information/communication is verified by Institute candidate before submission and is correct and Institute further warrants that the candidates have consented to use their Mobile No./ Email id provided/uploaded by it to Monster's website for communicating them through SMS by Monster and/or its service providers for the provision of the Services agreed between the Parties. In the event of any complaint at the end of candidates with respect to DND and other issues, Institute shall provide all the relevant details desired by Monster for resolving any such issues.

3. TERMS OF AGREEMENT:

This Agreement is between your Institution or company or organization ("You") and Monster.com India Pvt. Ltd. ("Monster") and governs use of the Monster website or websites in which services are subscribed under this Agreement (each a "Site" and, together, the "Sites"). This agreement shall continue and be effective till the validity period of the product and services subscribed by you. If you breach any provision of this Agreement, Monster may (i) discontinue Your service and/or (ii) pursue all other available remedies to protect it. Any extension of services covered under the scope of the Agreement shall be at the discretion of Monster.

You agree to comply with all the applicable laws, including but not limited to the laws relating to contracts, labour and employment laws, data privacy laws, cyber laws and laws relating to intellectual property.

Navigation/Search Engines: Notwithstanding anything to the contrary contained herein, You shall not use or attempt to use, and shall cause each party under your control not to use or attempt to use, any engine, software, tool, agent or other device or mechanism (including without limitation browsers, spiders, avatars or intelligent agents) to navigate or search any Site other than the search engine and search agents available on such Site. The contents of the website (including without limitation all job postings and all resumes), and all elements, which are a part of the foregoing, and all intellectual and other proprietary rights therein, are the property of Monster.

Neither you nor any of your employees shall do anything, which would in any way damage, injure or impair the validity of Monster's rights in the contents of the web Site. To the extent permitted by law Monster makes no warranties, express or implied, including the warranties of merchantability, fitness for a particular purpose, or non-infringement with respect to its services or any site, or results of use thereof and all warranties and conditions, express or implied are hereby excluded.

You agree to indemnify Monster, its officers, directors, employees and agents, from and against any claims, actions or demands, arising or resulting from Your breach of this Agreement or from Your provision of any material to any Site, including but not limited to claims of breach of third party intellectual property rights. Neither party will be liable to the other party (nor to any person claiming rights derived from the other party's rights) for incidental, indirect, consequential, special, punitive or exemplary damages of any kind - including lost revenues or profits, loss of business or loss of data - arising out of this agreement, regardless of whether the party liable or allegedly liable was advised, had other reason to know, or in fact knew of the possibility thereof. Your use of the Monster First Job program webpage / site is subject to the Terms of Use, and / or Terms and Conditions of the website available from such web Site's homepage as may be amended from time to time.

This Agreement (i) constitutes the entire Agreement between the parties with respect to the subject matter hereof and supersedes any previous oral or written arrangements or understandings relating thereto as well as any purchase orders not supplied by Monster that have been or may from time to time be submitted by you, (ii) may be signed in counterparts, (iii) shall be governed by the laws of India (iv) may not be amended, terminated or waived orally, and (v) may not be assigned, in whole or in part, directly or indirectly, by operation law or otherwise, by you and only comes into existence when signed by You and Monster. Monster will be entitled to assign all or any of its rights and obligations hereunder. Any terms of this Agreement that may be invalid shall not affect the validity of enforcement of the remaining valid terms of this Agreement. The terms and conditions of this Agreement may not be amended without the affirmative written consent of Monster.com India Pvt. Ltd. This MOU will automatically renew on annual basis unless either party gives a 30 days prior notice for its termination before the annual renewal. Monster reserves the right to terminate this MOU immediately in the event any material breach of the terms of this MOU by the Institute including but not limited to breach / infringement of Monster intellectual property rights or any third party rights or breach of any provisions of the MOU. Every Dispute, difference or question which may at any time arise between the parties hereto or any person claiming under them, touching or arising out of or in respect of this agreement or the subject matter thereof shall be referred to the Sole Arbitrator nominated by the First Part, the award passed by the Arbitrator shall be final and binding on the parties hereto. The venue of Arbitration shall be Hyderabad. All and any disputes shall be subject to the exclusive jurisdiction of the Courts at Hyderabad, India.

4. TERM AND TERMINATION

This MOU shall be effective from the date hereof and shall continue to be in full force and effect unless terminated earlier by either party with a One Month notice. Thereafter, this MOU may be renewed for further periods by mutual agreement between both the parties.

...EREOF, the Parties have caused this Agreement to be executed by their duly authorised representatives in one or more counterparts, each of which shall constitute an original effective as of the day and year set forth above.

The persons signing this Agreement on behalf of the parties hereto certify that they are duly authorized by their respective entities to sign and execute this Agreement for and on behalf of their entities/organizations by said signatures that they are duly authorized to sign this Agreement on behalf of said parties and that this Agreement has been authorized by said parties.

SIGNED ON BEHALF OF MONSTER:

Name : Sangeetha Shyam Sundar

Designation: Manager – Special Initiatives

Email: sangeetha.sundar@monsterindia.com

Phone: +91 9820124916

SIGNED BY AUTHORISED REPRESENTATIVE OF MEMBER:

Name : Prof. Ravi Toteja

Designation: Principal

Email: principal@andc.du.ac.in

Phone: 011-26294542

Witness:

1. G. _____

(Garapati Shanmukh Sai, Asst. Manager – Marketing, Monster
Address: Flat No 304, Lakshmi Apts, Street No 3, Sanath Nagar, Hyderabad - 500018)

2.

Sanjay Vohra, Placement Officer
51-D, Pocket-B, Vikaspuri Extension, New Delhi-110018.

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Science Setu (National Institute of Immunology)

From 2022 - till date

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

Certificate No.	:	IN-DL19098820737397T
Certificate Issued Date	:	04-Sep-2021 11:05 AM
Account Reference	:	IMPACC (IV)/ dl847003/ DELHI/ DL-DLH
Unique Doc. Reference	:	SUBIN-DLDL84700333930168571561T
Purchased by	:	ACHARYA NARENDRA DEV COLLEGE
Description of Document	:	Article 5 General Agreement
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	NATIONAL INSTITUTE OF IMMUNOLOGY
Second Party	:	ACHARYA NARENDRA DEV COLLEGE
Stamp Duty Paid By	:	ACHARYA NARENDRA DEV COLLEGE
Stamp Duty Amount(Rs.)	:	100 (One Hundred only)

.................................Please write or type below this line.................................

NOTARY
AJAY SETH
ADVOCATE
L.No. 10659
GOVT. OF INDIA

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MEMORANDUM OF UNDERSTANDING FOR IMPLEMENTING THE
SCIENCE SETU PROGRAMME IN COLLEGES

This Memorandum of Understanding (MoU) between The NATIONAL INSTITUTE OF IMMUNOLOGY (NII), and Acharya Narendra Dev College , University of Delhi hereinafter called parties of the first part and second part respectively.

2. WHEREAS NII located at Aruna Asaf Ali Marg, New Delhi 110067 is an autonomous institute of the Department of Biotechnology (DBT), Government of India, registered under the Society Registration Act, 1860;

3. WHEREAS, Acharya Narendra Dev College , University of Delhi is located in Govindpuri Kalka ji, New Delhi-19. It is a constituent public college of the University of Delhi that offers undergraduate courses in various disciplines of sciences and applied sciences.

4. WHEREAS, The *Science Setu* Programme approved by the Governing Body of the NII aims to contribute to the national goal of encouraging more and more bright young minds to take up the pursuit of science and technology as a career option,

5. WHEREAS, both parties of the first- and second part wish to come together in synergistic partnership to implement the above-said *Science Setu* Programme, this Memorandum of Understanding is being executed to clarify the intent and purpose and mode of implementation of the programme.

6.   Now, the parties of this MoU mutually declare and agree to the following:

    6.1   Name

    The name of the programme will be **NII- Acharya Narendra Dev College Science Setu Programme**

    6.2   Goal

    To contribute to the national goal of encouraging more and more bright young minds to take up the pursuit of science and technology as a career option

    6.3   Objectives

    a) To address the changing needs of teaching, learning and research in biological sciences

    b) To link the National Institute of Immunology (NII) in the spirit of "success through access" to undergraduate teaching in biological sciences

    c) To engage a talent pool of potential biology students in the delivery of innovation, research and continuous development

    d) To act, through all the above, as a catalyst of change

    6.4   Mode of Implementation

    a) NII and Acharya Narendra Dev College commit themselves to interact through mutual consultation and formal partnership towards meeting the goal and objectives of the programme.

    b) Engagement with the Acharya Narendra Dev College by NII would be on-site, and/or through *e-learning* approaches depending on feasibility.

    c) This commitment shall be treated as a national service intrinsic to the mandate of NII, and Acharya Narendra Dev College and shall neither involve remuneration/honoraria in any form, nor be treated as a cause for modification of any current institutional goals.

    d) Enough flexibility would be built in to ensure that the programme adds value to undergraduate education.

    e) The level of engagement and the best time to commence the same will be decided through mutual consultation.

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f) Programme of engagement could include one or more of the following depending on specific need and feasibility:

    (i) Lectures/discussion

    (ii) Laboratory exercises

    (iii) Mentorship to student science projects

    (iv) Mentorship to teacher science projects

    (v) 'College Teacher Forums' to discuss broad issues on latest developments in science, career opportunities, innovative methodologies in teaching/research, science & technology policy issues, and other related areas.

    (vi) Summer student/teacher internships

    (vii) Any other as mutually agreed

6.5   Role and Responsibilities of NII

a) NII commits to designate a mutually agreed number of its scientists/faculty members toward this programme for at least 12 hours of engagements per year.

b) This may be distributed flexibly by the designated scientist within one or more academic institutions

c) NII will take care of the logistics of conveyance of the scientist(s) to and from the College, whenever the interaction is on site or outside NII.

d) Depending on feasibility, NII would make appropriate arrangements in consultation with Acharya Narendra Dev College for e-learning at its end.

e) Depending on feasibility, NII will also facilitate interaction on its premises.

6.6   Role and Responsibilities of the college

a) The Acharya Narendra Dev College commits to receive and appropriately facilitate the interaction between the designated NII scientist (s), and its teachers/students so as to fulfil the goal and objectives of the programme.

b) It will designate a nodal person to interact with the NII scientist (s).

c) It will take care of the logistics of conveyance of its teachers/students whenever the interaction is outside its premises

d) Depending on feasibility, Acharya Narendra Dev College would make appropriate arrangements in consultation with NII for e-learning at its end.

6.7   Budget for the Programme

The programme will be accommodated within the annual budget of each party.

6.8   Programme Review

The Governing Body of NII shall review the programme for implementation at the end of one year for implementation and three years for performance.

6.9   Termination

Either party to this MoU has the right to terminate the MoU upon serving a written notice of 30 days to the other party should the other party commit a breach of any of the provisions of this MoU.

6.10   Interpretation and Dispute Resolution

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a) If any dispute arises between the parties hereto arising out of or in connection with the interpretation or implementation or alleged breach of any provision of this MoU, the parties hereto shall endeavour to settle such breach amicably.

b) In case the dispute cannot be resolved after reasonable attempts within 5 days, one of the parties shall give a written notice to the other to this effect. In such a case the matter shall be referred to the Director NII as a sole arbiter, whose decision will be binding on both the parties.

7. This MoU is valid for three years from the date of signing. It can be extended further through mutual agreement.

IN WITNESS WHERE OF THE PARTIES HERE TO HAVE EXECUTED THIS MoU ON ....(DAY), ...(DATE), ...(MONTH) 2019.

Signed------------------------------- For and on behalf of the National Institute of Immunology Seal	Signed------------------------------- For and on behalf of Acharya Narendra Dev College Seal
Witnesses 1. Dr. Anil Kumar 2. Jyti Singh	Witnesses 1. 4/4/22 Dr. Archna (ANDC) 2. 4/4/2022 Prof. Suresh Kumar (RYC)

डॉ पुष्कर शर्मा
Dr Pushkar Sharma
निदेशक (अतिरिक्त प्रभार) और
Director (Additional Charge) &
स्टाफ वैज्ञानिक-VII / Staff Scientist-VII
राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान
NATIONAL INSTITUTE OF IMMUNOLOGY
अरुणा आसफ अली मार्ग / Aruna Asaf Ali Marg
नई दिल्ली-110 067 / New Delhi - 110 067

NOTARY
AJAY SETH
ADVOCATE
L.No: 10659
GOVT. OF INDIA

ATTESTED

NOTARY DELHI

04 SEP 2021

3

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Collaboration with IIT, Delhi 2021(For 3 Months)

Wireless Research Lab, Bharti School of Telecom
Indian Institute of Technology Delhi, Hauz Khas, New Delhi-11 0016. Tel: 011-26582050
www.vlab.co.in

Ref. No.: **VLABS/IITD/NCS**   Date: **13-09-2021**

To,
The Principal,
Acharya Narendra Dev College,
Kalkaji, New Delhi

Sub: Virtual Labs Nodal Center

With reference to your Expression of Interest for Virtual Labs, it gives me immense pleasure to designate your Institute as a Nodal Center for Virtual Labs. As nominated by you, **Dr. Sumit Sahni** has been accepted to act as the Nodal Coordinator from your Institute. This approval is valid up to 31st December 2021. Subject to the following Terms and Conditions and any subsequent directives as issued by MoE from time to time:

1. Approved status of AICTE/STEB/UGC is mandatory for your college.
2. The necessary infrastructure (dedicated space having personal computers with 1Mbps broadband internet connectivity) to be maintained at your own cost for Virtual Labs.
3. Nodal centers will get operational technical support.
4. Students are not to be charged any extra fee for providing Virtual Labs facility for their usage.
5. Nodal Coordinator should attend the meeting held at IIT Delhi as per schedule and a semester wise report of V Labs usage and feedbacks by the faculty members and students should be submitted.
6. Strict adherence to the standard lab procedures and cyber security laws needs to be followed.
7. Any violation or the above will result in automatic cancellation of Nodal Center status for your college without giving any notice.

Kindly acknowledge the receipt of this letter and the acceptance of the Terms & Conditions mentioned above.
We thank you again for your interest in the Virtual Labs project and appreciate your endeavor in the service of the student community.
Wish you all the best!
Thank You,
Sincerely,

Prof. Suresh Bhalla
Project Virtual Labs
IIT Delhi
sbhalla@civil.iitd.ac.in
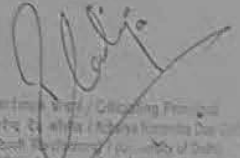
Skill Hub Initiative Under PMKVY 2022 (Till Date)

Acharya Narendra Dev College, Govindpuri, Kalkaji

Web Developer Course Attendance

S.No	Attendance Id	Name	Users Designation	Total Days 16/3 to 10/5	Attendance 16/3 to 10/5	Total Days 13/5 to 9/6	Attendance 13/5 to 9/6	Total Days 13/6 to 6/9	Attendance 13/6 to 6/9	Total (Days)	Total (Attendance)
1	61313383	Abhishek Gusain	Trainee	37	32	25	24	39	21	101	77
2	6274755	Ajay Yadav	Trainee	37	37	25	23	39	36	101	96
3	90930638	Anisha Sharma	Trainee	37	29	25	24	39	26	101	79
4	79516083	Ankit Kumar	Trainee	37	37	25	24	39	35	101	96
5	43723001	Arpit Talan	Trainee	37	28	25	7	39	0	101	35
6	35055970	Ayushi Aggarwal	Trainee	37	22	25	7	39	0	101	29
7	66059832	Deepak Bharti	Trainee	37	24	25	25	39	31	101	80
8	8530583	Durgesh	Trainee	37	35	25	24	39	31	101	90
9	61883954	Hanshika Shukla	Trainee	37	26	25	21	39	4	101	51
10	64425204	Himani Rawat	Trainee	37	31	25	25	39	24	101	80
11	33060004	Jatin Kumar	Trainee	37	25	25	23	39	30	101	78
12	41679806	Kirti Rawat	Trainee	37	20	25	24	39	11	101	55
13	85378039	Manu	Trainee	37	30	25	24	39	32	101	86
14	17376403	Naman Kumar	Trainee	37	25	25	24	39	30	101	79
15	70209620	Nitin Singh Gusain	Trainee	37	28	25	23	39	33	101	84
16	32986281	Rashmi	Trainee	37	30	25	25	39	35	101	90
17	21013596	Shakti Dwivedi	Trainee	37	28	25	23	39	30	101	81
18	13153663	Shubham Pratap Singh	Trainee	37	28	25	21	39	31	101	80
19	83402199	Vikas Kumar	Trainee	37	31	25	25	39	37	101	93

Gmail

Dr. Pooja Bhagat <poojabhagat@andc.du.ac.in>

Fwd: Skill Hub Initiative Under PMKVY - Login Credentials

Dr. Sarita Kumar <saritakumar@andc.du.ac.in>   Fri, Feb 25, 2022 at 2:57 PM
To: "Dr. Pooja Bhagat" <poojabhagat@andc.du.ac.in>, "Ashutosh ." <ashutosh@andc.du.ac.in>

---------- Forwarded message ---------
From: <sdmssupport@nsdcindia.org>
Date: Tue, Feb 1, 2022 at 12:51 AM
Subject: Skill Hub Initiative Under PMKVY - Login Credentials
To: <saritakumar@andc.du.ac.in>

Dear Training Provider (TP),

This is with regards to Skill Hub Initiative(SHI) under Pradhan Mantri Kaushal Vikas Yojana (PMKVY) 3.0 for which your Registration on Skill India Portal (SIP) has been completed successfully.

Your login credentials for TP and Training Centre (TC) are appended below. You are requested to log on to https://skillindia.gov.in and fill in your Bank details in the requisite section.

TP ID: TP104735
Password: ekaushal

In case of any query, you may write to us on skillhub@nsdcindia.org or call on our helpline numbers: 011-47451671, 72,73 and 75.
Thank You,
Operations team, NSDC

--

सरिता कुमार
Sarita Kumar
Professor
Department of Zoology
Acharya Narendra Dev College

(University of Delhi)
+91-98-103-09912

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Actual activities under each MOU and web -links year-wiseUniversity of Delhi at ANDC SPIE Student ChapterSPIE Annual Report 2018
Faculty Advisor: Dr Amit Garg

SPIE Activities 2017-18

SPIE student members, Adarsh, Prsahant and Chiradeep participated in the 5th Annual Convention organized by Regional Council (Delhi & Haryana) of Indian Association of Physics Teachers (IAPT) on August 19, 2017 at the DAV School, Shreshth Vihar, New Delhi.

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SPIE Activities 2018-19

1. **"Paradigm Shift in Physics Education through hands-on techniques in OPTICS" was organized in collaboration with "JOY OF LEARNING FOUNDATION, DELHI" on January 24, 2019 by University of Delhi at ANDC SPIE Student Chapter.**

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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

2. The 2019 SPIE Structured Light OPIC (Optics and Photonics International Congress) along with SPIE leadership workshop was held from April 21 to April 26, 2019 in Yokohama, Japan.

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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.

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3. Two days SPIE Induction Workshop-2018 on September 25-26, 2018 at Acharya Narendra Dev College.

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4. A two-day workshop on Internet of Things (IOT) was organized by i3indiya in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018.

https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf

Induction Workshop: - A two-day Induction Workshop was held from September 25-26, 2018 for SPIE members. The workshop had an invited talk by Prof. Joby Joseph, Department of Physics, IIT Delhi on the topic of "Fabrication of Nanophotonic Structures and some Applications". Hands-on sessions were conducted during the workshop on projects like Water drop Microscope, Communication through Fiber-Optic cables, Laser Spirograph, Lissajous light patterns through vibration and Holography. Dr. Sanjay Kumar, Department of Physics was the resource person in setting up and recording the holograms. The workshop convener was Dr. Amit Garg.

Workshop at Deen Dayal Upadhyay College, DU: A two-day workshop on Internet of Things (IOT) was organized by i3indiya in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018. Two teams of 4 students each (Rohit Saini, Pranjal Singh, Ritesh Raj, Vikram Bhardwaj, Lokendra Singh, Rajat Mann, Gaurav Lokhna and Ashutosh Singh) were sponsored by our Chapter to attend and take part in the workshop. They learned various projects like basics of LED blinking; relay board working for actual home appliances, controlling circuit over Wi-Fi, managing practical data for application over internet along with various other things.

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5. Conference was held at San Diego, CA, USA from August 18-23, 2018 this year. Mr. Chiradeep Das, a student of B.Sc(H) Electronics, Part III was awarded Officers' Travel Grant (OTG) to attend this conference with full funding from SPIE , USA. He demonstrated the phenomena of "Blue Sky and Red Sunset" at the Optics Outreach Games.

SPIE Office bearers:
1. President- Rohit Saini B.Sc. (H) Electronics, III Year.
2. Vice-President- Chiradeep Das, B.Sc. (H) Electronics, III Year.
3. Secretary- Ritesh Raj, B.Sc. (H) Electronics, III Year.
4. Treasurer- Hardik Minocha, B.Sc. (H) Electronics, II Year.

SPIE International Conference at San Diego:- The SPIE Optics and Photonics Conference was held at San Diego, CA, USA from August 18-23, 2018 this year. Mr. Chiradeep Das, a student of B.Sc. (H) Electronics, Part III was awarded Officers' Travel Grant (OTG) to attend this conference with full funding from SPIE , USA. He demonstrated the phenomena of "Blue Sky and Red Sunset" at the Optics Outreach Games. He also presented a poster on the different activities of our Chapter and its current position as compared to other Chapters worldwide at a Poster Session. It was a great opportunity

6. A two-day workshop on Internet of Things (IOT) was organized by i3indiya in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018.

Workshop at Deen Dayal Upadhyay College, DU: A two-day workshop on Internet of Things (IOT) was organized by i3indiya in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018. Two teams of 4 students each (Rohit Saini, Pranjal Singh, Ritesh Raj, Vikram Bhardwaj, Lokendra Singh, Rajat Mann, Gaurav Lokhna and Ashutosh Singh) were sponsored by our Chapter to attend and take part in the workshop. They learned various projects like basics of LED blinking; relay board working for actual home appliances, controlling circuit over Wi-Fi, managing practical data for application over internet along with various other things.

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SPIE 2019-20

1. ROBOTHLON'19 workshop mainly focused on the students eager to learn about Embedded Systems using 8051. Two of SPIE members, Mr Hardik Minocha and Mr Prahlad Prajapat attended workshop held on October 4, 2019 at IIT, Delhi.

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.

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2. A two-day Orientation Program from July 22 & 23, 2019 was organized in four sessions each day for newly joined students of the college to learn about the activities of the SPIE Society by Prince Sharma, Chapter president 2019-20 and Avinash Kumar Lal, Chapter Secretary 2019-20.

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.

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3. Optical color mixing workshop cum introductory session with freshers was attended by110 students. Date/Time/Location: August 9, 2019 from 1-5 pm in Seminar Hall, New Building.

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.

4. 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, 2019.

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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

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5. A lab visit was organized 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 September 26, 2019 to IGIB and September 30, 2019 to NPL.

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. Phalender, 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.

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6. SPIE Chapter organized a talk by Professor Marija Strojnik, Astrophysicist and Distinguished Professor at Optical Research Center, Mexico on October 15, 2019 at Acharya Narendra Dev College.

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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.

7. Two students, Mr Devesh Yadav and Mr Avinash Kumar Lal were sent to attend Maker Faire Hyderabad event held from November 10-12, 2019 at Hyderabad.

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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,

8. 100 students attended a hands-on workshop on Arduino organized by SPIE in association with Elecbits. Date/Time/Location: September 7, 2019 from 1-5 pm in Seminar Hall, New Building.

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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.

9. SPIE Student Chapter ANDC in collaboration with ANDC InStart Foundation and STEAMEDU organized workshop 'Pyrobot (Code in Python to program EV3 robots)' at ANDC on February 11, 2020.

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10. DST (Department of Science & Technology, Government of India) sponsored fourth lecture workshop on transdisciplinary areas of research and teaching was held on September 27 & 28, 2019 at Deen Dayal Upadhyaya College, University of Delhi.

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.

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SPIE 2020-21

1. Chapter organized another training session. This time it was an online webinar session of 5 days about Hybrid Mobile App Development with Flutter which was conducted from July 13-17, 2020, via Google meet.

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2. Conducted a 5-day workshop on on Data Science with Python on March 3, 2021.

SPIE 2021-22

1. The SPIE Student Chapter at Acharya Narendra Dev College, University of Delhi partnered with Brain Mentors Pvt. Ltd to organize an online workshop (Full Stack Web Development Using Mern) focusing on Web Development using the latest industry-ready tools. On March 05, 2022.

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2. SPIE Student Chapter organized a one-day offline workshop on Holography, conducted by an esteemed faculty Dr Sanjay Kumar on 14th March 2021.

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3. The SPIE Student Chapter of Delhi at Acharya Narendra Dev College partnered with Touch Techno to bring a fun and informative physical hands-on one day workshop in the college on March 26, 2022.

4. The SPIE Student Chapter of Delhi at Acharya Narendra Dev College organised webinar session on Career Opportunities in Public on February 4, 2022.

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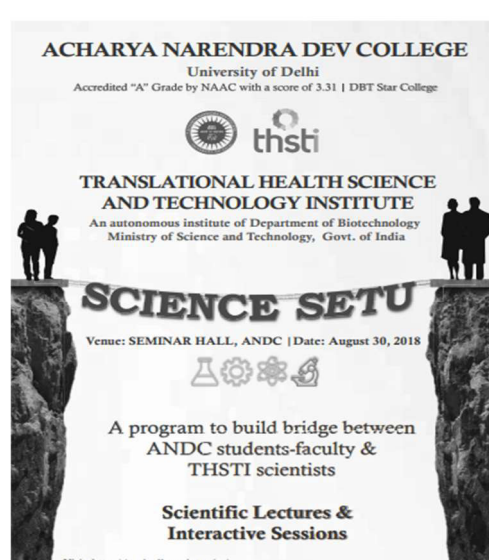
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Activities conducted under MoU signed by Thsti , Department of Biotechnology and Acharya Narendra Dev College
2017-2018

1. A team of four students, Jayati, Shreya, Priya Don and Sonia, won the first prize in the Science quiz organized by THSTI on their open day (September 22, 2017).
2. Vikas Shukla and Aishwarya Patnaik from Department of Botany participated in extempore competition. Two faculty members. Dr Urmi Bajpai and Dr Abhishek Mehta were the coordinators from the College.
   https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf

ANNUAL REPORT 2018

3.4. Science *Setu* Programme@ ANDC

Coordinator: Dr Urmi Bajpai

The Science *Setu* programme is an initiative undertaken by the Translational Health Science Technology Institute (THSTI) as a follow-up of the speech of the Hon'ble Prime Minister of the country, wherein he had called upon Indian scientists to actively involve themselves in sharing their research interests with the school and undergraduate students.

The *Setu* provides opportunities to students to work on short-term projects at THSTI under the guidance of a scientist. For this to happen, THSTI scientists presented students with a set of scientific problems and the challenge was for students to write research proposals/solutions.

A team of four students, Jayati, Shreya, Priya Don and Sonia, won the first prize in the Science quiz organized by THSTI on their open day (September 22, 2017). One student got the prize for answering a question from the audience. Another team of two students, Vikas Shukla and Aishwarya Patnaik from Department of Botany participated in extempore competition. Two faculty members Dr Urmi Bajpai and Dr Abhishek Mehta were the coordinators from the College.

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2018-2019

1. **Translational Health Science and Technology Institute, Department of Biotechnology, Ministry of Science and Technology, Govt. of India in collaboration with National Institute of Plant Genome Research organized an "Open Day @THSTI" under the India International Science Festival 2018 on September 28, 2018 in the NCR Biotech Science Cluster, Faridabad.**

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2. **Acharya Narendra Dev College, University of Delhi along with Translational Health Science and Technology Institute, Department of Biotechnology, Ministry of Science and Technology, Govt. of India organized a Science Setu Program at August 30, 2018.**

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2019-2020

The Science Setu program organized a interactive talk session on February 25, 2020 by the scientists from THSTI on the topic 'Diagnostics Research'. Dr Tarun Kumar Sharma, Senior Research Scientist presented "Innovations in Diagnostics" and Dr Chandresh Sharma described recent developments in "Typhoid Diagnostics". The sessions were interactive and well received by the students.

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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.

Time	Details
12.00 to 12:15 PM	Welcome Address **Dr. Ravi Toteja** Acting Principal, ANDC
12.15 to 12:45 PM	**Dr. Chandresh Sharma** Research Scientist, THSTI *Typhoid Diagnostics*
12.45 to 01:15 PM	**Dr. Tarun Kumar Sharma** Senior Research Scientist, THSTI *Innovation in Diagnostics*
01.15 to 01:45 PM	Panel Discussion
01.45 to 02:00 PM	Vote of thanks

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<u>**Creative Commons Affiliate**</u>

1. **The conference was conducted on February 03, 2018 at Acharya Narendra Dev College, University of Delhi.**

   The conference was conducted on February 03, 2018 at Acharya Narendra Dev College, University of Delhi.

   https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf

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3. AFFILIATE OF NATIONAL AND INTERNATIONAL ORGANISATIONS

3.1 Creative Commons (CC)

Affiliate: Dr. Savithri Singh

As an affiliate of Creative Commons, Dr Savithri Singh delivered a lecture in **OpenCon 2018**. OpenCon is a platform to learn about Open Access, Open Education, and Open Data, develop critical skills, and catalyze action toward a more open system for sharing the world's information—from scholarly and scientific research, to educational materials, to digital research data. OpenCon 2018 New Delhi was an official satellite event. The primary objective behind this initiative was to make the participants knowledgeable about various open society initiatives. The conference was conducted on February 03, 2018 at Acharya Narendra Dev College, University of Delhi. It included two parallel tracks; track 1 had talks by various open society advocates, discussions on promotion of Open Access culture in India, whereas track 2 participants were trained on Wiki data including organizers and speakers, the event witnessed 54 participants.

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Actual Activities conducted under MoU, "International Bacteriophage Research Consortium" Open Health System Laboratory, USA

2018-2019

Dr. Urmi Bajpai has developed a web portal for "International Bacteriophage Research Consortium (IBRC)" in collaboration with Open Health System Laboratory (OHSL), USA, which went live in October 2018.

5.3.2. Educational e-Content Uploaded on the University of Delhi /Other Websites

Faculty	e-Chapter
Dr. Urmi Bajpai (Biomedical Science)	Have developed a web portal for "International Bacteriophage Research Consortium (IBRC)" in collaboration with Open Health System Laboratory (OHSL), USA, which went live in October 2018.

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2019-2020

OHSL-IBRC colloquium, a public lecture delivered by Prof. Graham Hatfull , Professor in the department of Biological Sciences in the Kenneth P.Dietrich of Arts and Sciences at the University of Pittsburgh, USA on June 17, 2020.

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OHSL

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

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2020-2021

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1. Prof. Yves Briers, Associate Professor at the Department of Biotechnology at Ghent University, Belgium on 'From discovery to high-throughput on July 09,2020

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2. Prof. Paul Turner, Rachel Carson Professor of Ecology & Evolutionary Biology & Microbiology, Yale University; Faculty member at Yale School of Medicine, USA on 'Challenges in commercially developing phage therapy to target drug-resistant bacteria'. January, 27 2021.

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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 OR
https://cutt.ly/tpbkKLk

3. IBRC-PhageDirectory webinar series on 'Phage Bioinformatics':1. Dr Deborah Jacobs-Sera, Department of Biological Sciences, University of Pittsburgh, USA.

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Topic: 'Genomic annotation and comparative bioinformatics analysis of action bacteriophages' February 16, 2021

4. Ms. Katelyn McNair, University of California Irvine & San Diego State University, USA. Topic:' Phage genome annotation: the right way and/or the easy way'. March 02, 2021

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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

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5. IBRC-Phage Informatics Lecture series by Dr. Jason Gill on April 07, 2021

6. Phage Bioinformatics Lecture Series Hosted by IBRC Phage directory on March 30, 2021 by Justin Clark.

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2021-2022

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IBRC Symposium: Phage Lysins: Promising alternatives to antibiotics on July 09, 2021.

Department of Biomedical Science organized IBRC Online Symposium on "Phage Lysins: Promising alternatives to antibiotics". Resource persons for the symposium were Dr T.S. Balganesh, President Ganga Jain Biotechnology Pvt. Ltd., Mr Sukumar Hariharan, Head of Development, GBPL, India, Dr Vincent A. Fischetti, Prof. and Head, Laboratory of Bacterial Pathogenesis, Rockefeller University, US

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Activitiy conducted under MoU signed between Auburn University, Montgomery, Aalabama, USA and Acharya Narendra Dev College

A webinar was organized on "Setting Up for Success for the Health Professions" on 12/10/2022.

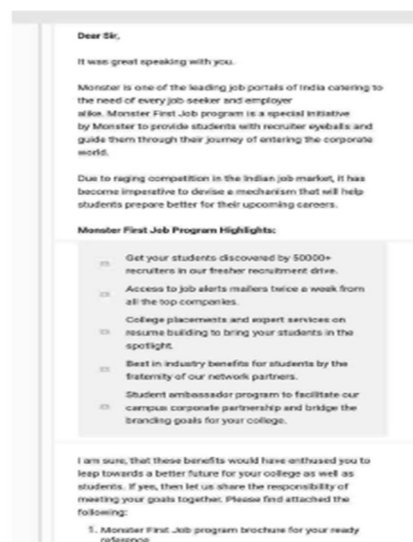# ACHARYA NARENDRA DEV COLLEGE

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become imperative to devise a mechanism that will help students prepare better for their upcoming careers.

Monster First Job Program Highlights:

- Get your students discovered by 50000+ recruiters in our fresher recruitment drive.
- Access to job alerts mailers twice a week from all the top companies.
- College placements and expert services on resume building to bring your students in the spotlight.
- Best in industry benefits for students by the fraternity of our network partners.
- Student ambassador program to facilitate our campus corporate partnership and bridge the branding goals for your college.

I am sure, that these benefits would have enthused you to leap towards a better future for your college as well as students. If yes, then let us share the responsibility of meeting your goals together. Please find attached the following:

1. Monster First Job program brochure for your ready reference
2. MoU draft for review and finalization

So, take a quick step to connect and collaborate for a better tomorrow!

Warm Regards,
Ganapati Shanmukh Sai,
Asst. Manager - Marketing
9701994007

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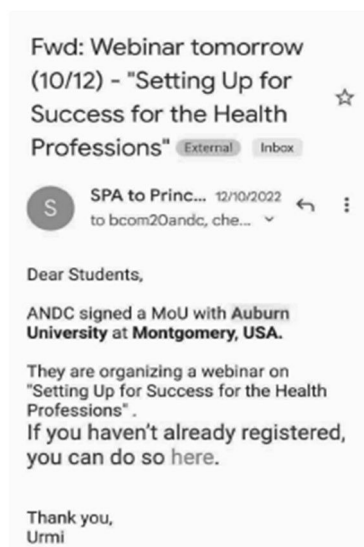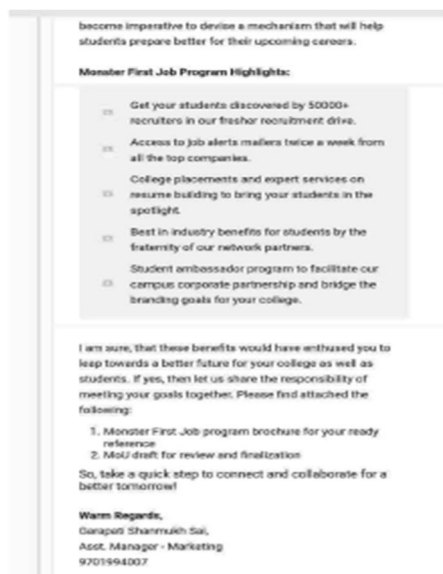
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दिल्ली विश्वविद्यालय | नैक मान्यता प्राप्त 'ए' ग्रेड

Actual Activities conducted under MoU signed with Collaboration with IIT, Delhi

Organized an online workshop on Initiating Virtual Labs in collaboration with IITD on August 24, 2021.

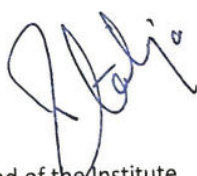Nodal Officer

WORKSHOP REPORT OF VIRTUAL LABS

An online Workshop on Virtual Labs was organized successfully on **24/08/2021** for **Acharya Narendra Dev College, University Of Delhi,** for Faculty members & Students from various disciplines (**Applied Sciences, CSE, ECE/EE, Biotech, Civil and ME**) by Virtual Labs team, IIT Delhi. Virtual Labs mentors for this workshop were **Mr. Tanmay Das, Mr. Prateek Sharma & Mr. Shivam Sundaram**. Total of **42** Faculty members & **43** Students attended the workshop. The detailed report of the workshop is given below:

Session	Time	Discipline	Labs / Experiments Demonstrated	No of Students attended (X)	No of Faculties attended (Y)
1	04:00 - 05:30	CS, Electronics, Biomedical Sciences, Botany, Zoology, Physics, Chemistry, Mathematics & Applied Sciences	• Molecular Fluorescence Spectroscopy Lab • Digital Electronics Lab-I • Solid State Physics Virtual Lab • Image Processing Lab • Cell Biology Virtual Lab I • Molecular biology Virtual Lab I • Analog Electronics Lab • Inorganic Chemistry Virtual Lab • Python Programming Lab • Transportation Engineering Lab	43	42
			Total attendees (X+Y)	85	

NOTE: Photographs of this workshop will be submitted separately.

Nodal Coordinator

Head of the Institute
Officiating Principal
Acharya Narendra Dev College

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ACHARYA NARENDRA DEV
COLLEGE

Preparing for the future...

आचार्य नरेंद्र देव कॉलेज
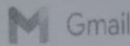### तैयारी भविष्य की...

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Activities conducted under MoU signed between Skill Hub Initiative under PMKVY and Acharya Narendra Dev College

<u>2021-2022</u>

Acharya Narendra Dev Kaushal Kendra, Skill Hub @ ANDC is selected as a Training Provider for the two Courses – 400 hour "Web Developer" Course and 240 hour "Jam, Jelly and Ketchup Processing Technician" Course. Only Indian candidates with a valid Aadhar Card will be able to apply in these free courses. The classes for the same will be held six days a week in the college. Minimum 70% attendance is required by the candidates to sit in the examination. Candidates will get Rs 500/- (deposited directly to the beneficiary candidate account) as the reward money after the completion of the course. In this academic session, the college is running the Web Developer Course since March 14, 2022.

M Gmail   Dr. Pooja Bhagat <poojabhagat@andc.du.ac.in>

Fwd: Skill Hub Initiative Under PMKVY - Login Credentials

Dr. Sarita Kumar <saritakumar@andc.du.ac.in>   Fri, Feb 25, 2022 at 2:57 PM
To: "Dr. Pooja Bhagat" <poojabhagat@andc.du.ac.in>, "Ashutosh ," <ashutosh@andc.du.ac.in>

--------- Forwarded message ---------
From: <sdmsupport@nsdcindia.org>
Date: Tue, Feb 1, 2022 at 12:51 AM
Subject: Skill Hub Initiative Under PMKVY - Login Credentials
To: <saritakumar@andc.du.ac.in>

Dear Training Provider (TP),

This is with regards to Skill Hub Initiative(SHI) under Pradhan Mantri Kaushal Vikas Yojana (PMKVY) 3.0 for which your Registration on Skill India Portal (SIP) has been completed successfully.

Your login credentials for TP and Training Centre (TC) are appended below. You are requested to log on to https://skillindia.gov.in and fill in your Bank details in the requisite section.

TP ID: TP104735
Password: ekaushal

In case of any query, you may write to us on skillhub@nsdcindia.org or call on our helpline numbers: 011-47451671, 72,73 and 75,
Thank You,
Operations Team, NSDC

सरिता कुमार
Sarita Kumar
Professor
Department of Zoology
Acharya Narendra Dev College

(University of Delhi)
+91-98-103-09912

Bhagat

आचार्य नरेंद्र देव कॉलेज
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YEARS
1922-2022

Acharya Narendra Dev College, Govindpuri, Kalkaji

Web Developer Course Attendance

S.No	Attendance Id	Name	Users Designation	Total Days 16/3 to 10/5	Attendance 16/3 to 10/5	Total Days 13/5 to 9/6	Attendance 13/5 to 9/6	Total Days 13/6 to 6/9	Attendance 13/6 to 6/9	Total (Days)	Total (Attendance)
1	61313383	Abhishek Gusain	Trainee	37	32	25	24	39	21	101	77
2	6274755	Ajay Yadav	Trainee	37	37	25	23	39	36	101	96
3	90930638	Anisha Sharma	Trainee	37	29	25	24	39	26	101	79
4	79516083	Ankit Kumar	Trainee	37	37	25	24	39	25	101	96
5	43723001	Arpit Talan	Trainee	37	28	25	7	39	0	101	35
6	35055970	Ayushi Aggarwal	Trainee	37	22	25	7	39	0	101	29
7	66059812	Deepak Bharti	Trainee	37	24	25	25	39	31	101	80
8	8530563	Durgesh	Trainee	37	35	25	24	39	11	101	90
9	61883954	Hanshika Shukla	Trainee	37	26	25	21	39	4	101	51
10	64425204	Himani Rawat	Trainee	37	31	25	25	39	24	101	80
11	33060004	Jatin Kumar	Trainee	32	25	25	23	39	30	101	78
12	41679806	Kirti Rawat	Trainee	37	20	25	24	39	11	101	35
13	85378039	Manu	Trainee	37	30	25	24	34	17	101	86
14	17376403	Naman Kumar	Trainee	37	25	25	24	39	30	101	79
15	70209620	Nitin Singh Gusain	Trainee	37	28	25	21	38	15	101	64
16	32986281	Rashmi	Trainee	37	30	25	25	39	35	101	90
17	21013596	Shakti Dwivedi	Trainee	37	28	25	23	39	30	101	81
18	13153663	Shubham Pratap Singh	Trainee	37	28	25	21	39	31	101	80
19	83402199	Vikas Kumar	Trainee	37	31	25	25	39	17	101	91

Bhagat.

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