



दीन दयाल उपाध्याय कॉलेज  
DEEN DAYAL UPADHYAYA COLLEGE

NAAC Accredited Institution - 'B' grade (CGPA=2.63)

(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, द्वारका, नई दिल्ली New Delhi - 110078

दूरभाष/TEL: 011-35069380, 27099381, 0888/FAX: 011-35069380, Website: www.dducollege.edu.ac.in



Minutes of the Meeting of IQAC with Teacher-in-Charges, Staff Council Secretary, Librarian, Coordinator-Student Activity Board and Convener-Sports Committee in the office of the Principal at 10 am on May 08, 2019.

Following members were present

1. Dr. Vinod Kumar, Teacher-in-Charge, Department of Chemistry & Convener-ADC
2. Dr. Savita Gehlaut, Teacher-in-Charge, Department of Physics
3. Ms. Sunita Nadir, Teacher-in-Charge, Department of Mathematics
4. Ms. Shweta Wadhwa, Teacher-in-Charge, Department of Computer Science
5. Dr. Varnika Bhatia, Teacher-in-Charge, Department of Botany
6. Dr. Lathika Nair, Teacher-in-Charge, Department of Zoology
7. Dr. Vandana Gupta, Teacher-in-Charge, Department of Commerce
8. Dr. Jayini Adhyapak, Teacher-in-Charge, Dept. of English & NCWEB; Member IQAC
9. Dr. R. M. Bharadwaj, Teacher-in-Charge, Department of Humanities
10. Dr. Anek Goel, Convener-Sports Committee
11. Dr. Charu Kalra, Convener-Student Activity Board
12. Dr. Sangeeta Talwar, Convener-Purchase Committee
13. Dr. Kulvinder Singh, Bursar and Member IQAC
14. Dr. Abhijit Sinha, Librarian
15. Dr. Poonam Kasturi, Member IQAC
16. Mr. Sikander Aggarwal, Member IQAC
17. Dr. Manoj Saxena, IQAC Coordinator and Member Secretary
18. Dr. Hem Chand Jain, Acting Principal and Chairman IQAC

Dr. Deepa Kamra, Teacher-in-Charge, Department of Management Studies informed in advance that she won't be able to attend the meeting.

**Agenda**

1. Submission of Self Study Report of the Departments for NAAC Second Cycle.
2. Promotion of Research in the College
  - a. Increasing the Grant for Research Projects from the Research Endowment Fund
  - b. Purchase of Software for Similarity Check
  - c. Budgetary support for Seminar/Conferences/Workshops
  - d. Funding of Innovation and Entrepreneurship Projects of Students
3. Infrastructure Development
  - a. Strengthening of ICT facilities in Computer Centre
  - b. Developing Two Conference Halls on Sixth Floor.
  - c. Development of Exhibition Hall on Sixth Floor.
  - d. Air Conditioning of Laboratories, Research labs, Departmental Libraries and others.
  - e. Repair and Maintenance of the Building.
4. Distribution of NR Grant
5. Any other matter with the permission of the Chair



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## Agenda Item 1

Following Departments have submitted the Self Study Report for NAAC Second Cycle and all relevant proofs shall be submitted on or before May 13, 2019.

1. Chemistry
2. Physics
3. Electronics
4. Botany
5. Zoology
6. Commerce
7. Management Studies
8. Mathematics & Operational Research
9. Computer Science
10. Social Sciences
11. English

Schedule of visit by IQAC team (internal members) to various Departments and Institutional Resources for assessment of preparedness of Department/Institutional Resources as well as Complete Academic and Administrative Audit (AAA)

Date	Day	Time	Department/Institutional Resources	Overall Coordination
May 20, 2019	Monday	10:00 am	Hostel	Warden Boys Hostel Warden Girls Hostel
May 20, 2019	Monday	11:30 am	Botany	Teacher-in-Charge
May 21, 2019	Tuesday	10:00 am	Sports	Convener-Sports Committee
May 21, 2019	Tuesday	02:00 pm	ICT and Utilities	Convener-ICT, Caretaker
May 22, 2019	Wednesday	10:00 am	Student Activity Board	Convener-Student Activity Board
May 23, 2019	Thursday	11:00 am	Accounts	S.O. Accounts
May 24, 2019	Friday	11:00 am	Administration	S.O. Admin
May 27, 2019	Monday	10:00 am	Library	Librarian
May 27, 2019	Monday	11:30 am	Chemistry	Teacher-in-Charge
May 28, 2019	Tuesday	10:00 am	Zoology	Teacher-in-Charge
May 28, 2019	Tuesday	11:30 am	Electronics	Teacher-in-Charge
May 29, 2019	Wednesday	10:00 am	Computer Science	Teacher-in-Charge
May 29, 2019	Wednesday	11:30 am	Management	Teacher-in-Charge
May 30, 2019	Thursday	10:00 am	Physics	Teacher-in-Charge
May 30, 2019	Thursday	11:30 am	Mathematics	Teacher-in-Charge
May 31, 2019	Friday	10:00 am	Commerce	Teacher-in-Charge
May 31, 2019	Friday	11:30 am	English and Humanities	Teacher-in-Charge/Coordinator-Humanities

- All equipment and furniture items should be coded/numbered.
- Departmental stock register, issue-return registers of last five years should be available.
- Non-functional equipment should be kept in a separate almirah/overhead storage
- Write-off equipment should be kept in a separate almirah/overhead storage
- Academic and Administrative Audit reports, SSR with proofs shall be presented.



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Following colleagues are required to prepare 20 min presentation (as per their own choice) covering the achievements of students, programs/events organized, purchase of equipment, books etc, augmentation of resources during 2014-2019. All necessary documentary proofs (year wise) has to be produced at the time of visit.

- Convener-Student Activity Board
- Convener-ICT
- Convener-Sports Committee
- Warden Boys Hostel
- Warden Girls Hostel
- Librarian

## Agenda Item 2(a)

- Publication in Journals indexed in Scopus and Web of Science should be increased. Staff Members and Students should mention their affiliation (in all publications) as "Deen Dayal Upadhyaya College, University of Delhi".
- All faculty members should update their faculty homepage at least twice in a year i.e. in the month of April and October and should submit proof of their research paper, book chapter, book and other relevant information to the Nodal officer of the Department before the Academic and Administrative Audit (AAA).
- It was reported by IQAC Coordinator that in order to Promote research publications in scopus indexed journals/UGC listed Journal - Recommendation of IQAC made in Meeting held on December 19, 2018 to be implemented from July 2019 where in "...In order to promote publication in high quality research journals by faculty members of the college, a letter of appreciation and financial reward of Rs. 10,000 (from the Research Endowment Fund) for each publication in a Scopus indexed journal be instituted as soon as possible. Modalities of the same to be finalized by the Governing Body....". (Annexure-A)
- The Governing Body vide Resolution No.12 dated 14-5-2016 had approved the proposal on research grant out of Research Endowment Fund created as per Governing Body Resolution No.17 dated 27-2-2015. As the cost of equipments, consumables etc has increased over the years, therefore it is recommended to revise the quantum of assistance for a research project for a period of two years:

Project Proposal in	Earlier	Proposed
Sciences	3.00 Lacs	5.00 Lacs
Humanities, Social Science and allied disciplines	2.00 Lacs	5.00 Lacs

- Recommended that Travel reimbursement to regular faculty members towards attending/presenting paper in National and/or International Conference/Seminar etc (within India) by private airlines be allowed subject to a maximum upto 2<sup>nd</sup> AC Train Fare.
- Recommended that Travel reimbursement maximum upto Rs. 50,000 towards registration fees, TA expenditure etc be reimbursed towards presenting paper in international conference/seminar etc (Outside India) by Air India as well as other airlines. Proposals to be evaluated by Research Committee and College shall provide funds to regular faculty members only once in two years.



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## Agenda Item 2(b)

As per the decision of Academic Development Committee held on August 29, 2018, the college has adopted UGC Notification regarding University Grants Commission (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018 available on ([https://ugc.ac.in/pdfnews/7771545\\_academic-integrity-Regulation2018.pdf](https://ugc.ac.in/pdfnews/7771545_academic-integrity-Regulation2018.pdf)) and have formulated Departmental Academic Integrity Panel (DAIP). And Institutional Academic Integrity Panel (IAIP) of the College (Copy attached). As per Regulations:

HEI shall

- Train student, faculty, researcher and staff for using plagiarism detection tools and reference management tools.
- Establish facility equipped with modern technologies for detection of plagiarism.
- Encourage student, faculty, researcher and staff to register on international researcher's Registry systems.

HEI shall declare and implement the technology based mechanism using appropriate software so as to ensure that documents such as thesis, dissertation, publications or any other such documents are free of plagiarism at the time of their submission.

In view of above, it is recommended to purchase **TURNITIN** software in the college. The expected cost is Rs. 3,50,000/-.

## Agenda Item 2(c)

It is recommended that the budgetary support for organization of **Seminar/Conference/Workshop** etc be provided to improve public perception. Ordinarily the financial support from the college may be granted upto :

- State Level seminar/Conference/Workshop etc : Rs.1.00 lakh
- National Level seminar/Conference/Workshop etc : Rs.1.50 lakh
- International Seminar/Conference/Workshop etc : Rs.2.00 lakh

However, higher support may be considered on case to case basis by the Principal on the recommendation of the research committee

## Agenda Item 2(d)

### **Innovation and Entrepreneurship of Students**

**Creation of Deen Dayal Upadhyaya College Innovation and Incubation Centre (DDUC-IIC)** – College has formed Institution Innovation Council in November 2018 (**Annexure-B**) and 06 Student teams participated in Smart India Hackathon 2019 (Software and Hardware Edition). In order to continue and motivate students, faculty members towards Innovation and Entrepreneurship, a dedicated Innovation and Incubation Centre (IIC) should be established in the college with 2-3 external experts from nearby Incubation Centre. Dedicated infrastructures, equipments and softwares pertaining to pre-incubation, incubation and advance labs facilities should be created in college from the Research Endowment Fund towards promoting and supporting innovation and start-ups. IIC should optimally utilize Research Endowment Fund towards financially supporting Innovative students' projects to be carried out under joint mentorship of faculty member(s) of the college and external expert from National and/or International reputed Industry, R&D lab. Maximum funding for each project should be upto Rs. 50,000. Modalities of monitoring and disbursement of funds to be framed by DDUC-IIC. Deen Dayal Upadhyaya College Innovation and Incubation Centre would provide students an opportunity to work on challenges faced within the private sector organisations and create world class solutions for some of the top companies in the world, thus helping the Private



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sector hire the best minds from across the nation. Innovation and Incubation Centre should be created on Sixth Floor with adequate infrastructure and equipments.

Further, under DBT star College Program, the college has signed MoU with National Institute of Immunology (NII) (Annexure-C), The Translational Health Science and Technology Institute (An Autonomous Institute of DBT, Ministry of Science and technology, Govt of India) (Annexure-D) and PhiXgen pvt. Ltd. (Annexure-E) The computational Biology is an interdisciplinary area with tremendous scope of learning, training and employment. Still the skills and knowledge in this field are not well integrated into Undergraduate Biology education. The existing curricular gap is limiting the biology students to harness the full potential of their education, slowing down their innovative skills and narrowing down their career prospects. Thus, a small Bioinformatics Centre with necessary infrastructure shall be set up on sixth floor for running add-on and certificate courses, hands-on workshops, summer trainings, additional practicals etc. Recommendation of the Committee attached (Annexure - F)

**Agenda Item 3(a)**

It is recommended to create two conference halls on Sixth Floor, each should be equipped with Sound System and Complete Audio-Visual facilities. The same shall be useful for hosting National and International Conferences, Seminars etc. IT Requirements for the same shall be prepared by the ICT Centre.

**Agenda Item 3(b)**

It is recommended to create Seminar Hall on the Sixth Floor (area above fifth floor of the library) in order to facilitate exhibition, poster presentation during National and International Conferences/Seminars/Science Festivals etc. IT Requirements for the same shall be prepared by the ICT Centre.

**Agenda Item 3(c)**

The proposal of ICT convener was discussed and approved. (Annexure - G).

**Agenda Item 3(d)**

Laboratories, Departmental Library, Research Labs etc of several Departments require ACs in order to make them available for students during summer vacations in order to conduct hands-On-workshops, training sessions as well as for Maintenance of Sophisticated equipments/specimens in Department of Botany, Zoology and Electronics. On the basis of the recommendations made by TICs, it is recommended to procure 40 Split ACs as per details given in Annexure-H.

**Agenda Item 3(e)**

It has been observed and reported by caretaker that lot of Mirrors in toilet are broken, glass doors and windows, Wash basin and Taps are damaged, Lights in corridor are not working, Blinds in classrooms and labs are also damaged. Several places in the building (walls, toilets, corridors) require immediate repair and maintenance due to seepage and tiles being chipped off.

- i. As the work has to be completed during summer vacations i.e. during May 15, 2019 to July 15, 2019 on an urgent basis under the supervision of Building Maintenance Committee assisted by College Caretake, therefore it is suggested to sanction and allocate a tentative sum of Rs. 25,00,000 towards purchase of mirror, taps, pipes, electrical lights and fittings, tiles, granite, washbasin etc and also repair of walls etc due to seepage.



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- ii. Further, following are also urgently required for purchase. The procurement and installation shall be carried out through purchase committee, building maintenance committee and college caretaker.

S. No.	Item	Qty	Amount per item (in Rs.)	Total (in Rs.)
1.	Wall Display Notice Board - (without cover, size 4ft x 3ft)	30	2500	75,000
2.	Dustbin for Laboratory - (Botany, Zoology, Chemistry), DBT Star College Lab, Language Lab etc -	30	2,800	84,000
3.	Dustbin for Corridor and Research Labs (20 L)	20	1,600	32,000
4.	First Aid Box - (One in each Department, GCR, Staff Room, IQAC, Principal Office, Office, Accounts, Non-Teaching Staff Room, Auditorium, Library, ICT Centre, Guest House)	30	1,000	30,000
5.	Steel Plates for Faculty Cubicles (name plate for faculty members), Classroom, DBT Star Lab, Conference Halls etc - (12 cm x 38 cm) @ Rs. 3 per sq.cm.	200	1400	2,80,000
6.	Repair of College logo on building wall, Alphabets of College on Gate No. 1 and 2	--		50,000
				<b>5,21,000</b>

## Agenda Item 4

The unspent NR grant shall be allocated towards purchase of Desktop Computers. In order to have smooth conduct of classes in view of expansion due to 10% EWS reservation w.e.f. July 2019, priority should be given to laboratories having large inflow of students and/or shared between different departments.

## Agenda Item 5

- No faculty member shall keep IT related equipment like Desktop Computer, Printer etc (i.e. available/purchased in the Lab.) in faculty cubicle. All staff members and Students can use the B/W printer available in the ICT Centre for college related work and ICT centre shall keep a record of all the printouts.
- Merit Promotion** - Students securing CGPA 9 or above in any semester to be provided laptop available in ICT centre of the College, for subsequent semester, for his/her academic growth and knowledge enhancement.
- Student Internship** - Students (recommended by Committee comprising of Convener-Academic Development Committee, Coordinator- IQAC and Convener-College Placement Cell) should be provided financial support (required, if any) towards Internship within Delhi or Outside during Summer Vacations.
- Student Mentoring** - Regular Departmental and Common Alumni Meet, Departmental Mentor-Mentee meetings & Industry-Academia Programs to be carried out in order to track student progression, strengthening counselling as well as placement opportunities.
- Scholarship** offered (under different Government schemes) for socially challenged students (i.e. SC/ST/OBC/Minorities) to be strengthened. SC/ST/OBC/Minorities Cell of the college should along with student volunteers should ensure that assist all eligible students are able to avail the scholarship every year.



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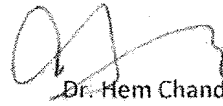
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- vi. It is also recommended to send each permanent non-teaching Staff member on training program once every two year to strengthen his/her skills and knowledge base especially in the area of IT.

  
Dr. Manoj Saxena  
Coordinator-IQAC

  
Dr. Hem Chand Jain  
Chairman-IQAC and Acting Principal



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Ref. No. DDUC/IQAC/2018/08

Date: December 19, 2018

Minutes of the IQAC meeting held on December 12, 2018 in the Committee Room. Following members were present:

1. Dr. S. K. Garg, Principal and IQAC Chairperson
2. Dr. Kulvinder Singh
3. Dr. Anuja Soni
4. Dr. Jayini Adhyapak
5. Dr. Poonam Kasturi
6. Dr. H C Jain, Vice Principal and Special Invitee
7. Dr. Manoj Saxena, IQAC Coordinator

### Agenda for IQAC meeting

1. To Approve AQAR 2017-2018
2. Any other matter
- Item No. 1 – IQAC coordinator gave a detailed presentation of the AQAR 2017-2018. After discussion, the AQAR was approved with some minor changes/corrections.
- Item No. 2 – After detail discussion pertaining to the Action Plan for NAAC Second Cycle scheduled for 2019, following was resolved:
  - i. Each Department shall prepare Learning Outcome (LO) and Program Outcome (PO) of each paper and the same shall be displayed on College Website before March 31, 2019.
  - ii. During Academic and Administrative Audit (AAA) special emphasis has to be given on the meetings and outcome of the Mentor-Mentee group meetings, so as to strengthen the same.
  - iii. Each Activity Convener should submit a detailed report, list of participants and photographs while settling the bills, within 15 days of the activity.
  - iv. Accounts section shall intimate the tentative fund allocation of each subject society and student society to respective TICs and Convener latest by July 15 every year. The progress of the activities organized shall be reviewed at the end of the odd semester when final allocation of funds will be done alongwith any unutilized fund of any activity.
  - v. In order to promote publication in high quality research journals by faculty members of the college, a letter of appreciation and financial reward of Rs. 10,000 (from the Research Endowment Fund) for each publication in a Scopus indexed journal be instituted as soon as possible. Modalities of the same to be finalized by the Governing Body.
  - vi. Issue of Group Insurance for regular students of the college was discussed and it was resolved to use SAF funds for covering reimbursement in case of serious medical illness and/or demise of any student.
  - vii. Each and every student as well as employee of the college should be computer savvy and should have necessary IT skills. Therefore, provision must be made for conducting ICT workshops for all staff members and all students in ICT centre of the college.
  - viii. All the ranking agencies like NIRF, QS Ranking, India Today etc. give a lot of emphasis on the college website. In fact, they take a lot of data from the institutional website. Therefore, it is recommended that the ICT Committee of the college should get the college website reconstructed through some good professional agency replacing the existing one by April 30, 2019.
  - ix. All faculty members should update their faculty homepage before April 30 every year.

Dr. Manoj Saxena  
Coordinator-IQAC

Dr. S. K. Garg  
Chairman-IQAC



Dda College &lt;principaldducollege@gmail.com&gt;

## Permission to form AICTE Committee for preparation institute for Atal Ranking of Institutions on Innovation Achievements Framework- ARRIA and for overseeing activities of Institution Innovation Council (IIC) established under MHRD Innovation Cell (MIC)

IQAC Deen Dayal Upadhyaya College, Univ of Delhi &lt;iqacdducollege@gmail.com&gt;

Tue, Nov 6, 2018 at 9:58 AM

To: Ddu College &lt;principaldducollege@gmail.com&gt;, Suresh Garg &lt;skgargdr9@gmail.com&gt;

The Principal  
Deen Dayal Upadhyaya College  
University of Delhi

Sir,

This is w.r.t email received from AICTE & MHRD Innovation Cell and UGC Letter (Copy attached)  
- [https://www.ugc.ac.in/pdf/news/0017538\\_Institutions-Innovation-Council.pdf](https://www.ugc.ac.in/pdf/news/0017538_Institutions-Innovation-Council.pdf).  
Copy of MHRD's IIC Brochure and Declaration Form is attached herewith.

As per the UGC letter, Institutions are required to register Institution Innovation Council (IIC) latest by November 20, 2018

### Major Focus of IIC

- To create a vibrant local innovation ecosystem
- Start-up/ entrepreneurship supporting Mechanism in HEIs
- Prepare institute for Atal Ranking of Institutions on Innovation Achievements Framework- ARRIA
- Establish Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas
- Develop better Cognitive Ability amongst Technology Students

### Functions of Institution's Innovation Council

Promote innovation in the Institution through multitudinous modes leading to an innovation promotion eco-system in the campus

- To conduct various innovation and entrepreneurship-related activities prescribed by Central MIC in time bounded fashion.
- Identify and reward innovations and share success stories.
- Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- Network with peers and national entrepreneurship development organizations.
- Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
- Organize Hackathons, idea competition, mini-challenges etc with the involvement of industries.

As an outcome of the meeting which I attended and the recent UGC letter, it is imperative to set-up Innovation Council at every institute.

In another letter ([https://www.ugc.ac.in/pdf/news/4667580\\_Robust-Innovation-System.pdf](https://www.ugc.ac.in/pdf/news/4667580_Robust-Innovation-System.pdf)) wherein UGC has recommended to *Establish 'Innovation Labs on the models of Atal tinkering labs'*. Further, as per 'Atal Ranking of Institutions on Innovation Achievements (ARRIA)', one of the important parameters is "Facilitating Access to Advance Centres/ Facilities and Entrepreneurial Support System" where in information about following facilities are required to be filled up

1. Design/ Modelling/ Simulation centre
2. Rapid prototyping facility
3. Tinkering lab
4. Innovation centre/ Innovation Clubs
5. Incubation Centre
6. STEP/ Research Park

I wish to share that under DBT Star College program, we have procured equipments which can facilitate pt. no. 1-6 partially. However, necessary funds are required subsequently from college for procurement of equipments and software for making the DBT Star College Lab fully equipped for all the points mentioned above. This will help in optimum space utilization and college resources. To add further, the partnership with National Institute of Immunology

(AI) and DDU College is in very advance stage and this will help in providing adequate guidance from experts in the area of Health Care, Agriculture & Rural Development, Energy and Environment.

Therefore, I request you to accord your approval for formation of IIC and Committee for filling up of Atal Ranking of Institutions on Innovation Achievements Framework- ARRIA with following faculty members so that we can register Institution Innovation Council (IIC) latest by November 20, 2018.

Committee for preparation institute for Atal Ranking of Institutions on Innovation Achievements Framework- ARRIA and for overseeing activities of Institution Innovation Council (IIC) established under MHRD Innovation Cell (MIC)

1. Dr. Manoj Saxena
2. Dr. Yoglets S. Mehra (From Management Studies)
3. Dr. Poonam Kasturi (From Electronics)
4. Ms. Shweta Wadhwa (From Computer Science)
5. Dr. Sudhir Verma (From Zoology)

} A

The above faculty members have wide experience in

- Design Competition/Proof of Concept development
- Running Joint Programs with Industry
- Business Plan Development/Business Plan Competitions

You are requested to kindly give us a go ahead as we have to contact the following for becoming member of the IIC

- One Representative from nearby Incubation Centre
- One Representatives of Lead Bank / SIDBI / NABARD / Investor
- One Technical Expert from nearby Industry
- Students from the host institution Member 10 (Minimum)-15 (Maximum)

With regards

Dr. Manoj Saxena  
Convener-Science Foundation and DBT Star College Program

Dr. Manoj Saxena  
(Coordinator-IQAC)  
Associate Professor  
Department of Electronics  
Deen Dayal Upadhyaya College  
University of Delhi  
Dwarka Sector-3, New Delhi 110078  
Mobile: 09968393104

----- Forwarded message -----

From: Dr. Manoj Saxena <saxenamanoj77@gmail.com>  
Date: Tue, Nov 6, 2018 at 9:06 AM  
Subject: Fwd: AICTE - MHRD - Innovation Cell - Industry Connect - Reg  
To: Dr. Kulvinder Singh <iqaadddcollege@gmail.com>

Dr. Manoj Saxena, Fellow IETE  
IEEE EDS Distinguished Lecturer

Associate Professor, Department of Electronics  
Deen Dayal Upadhyaya College, University of Delhi  
Dwarka Sector-3, New Delhi-110078, India  
Mobile: 09968393104

Official Homepage: <https://dducollege.edu.ac.in/ViewProfile.aspx?fid=saxenamanoj77@gmail.com>  
ORCID Webpage : <http://orcid.org/0000-0002-9368-4194>  
Scopus Webpage : <http://www.scopus.com/authid/detail.url?authorId=35480023200>  
ResearcherID-Thomson Reuters : <http://www.researcherid.com/rid/K-3863-2015>

Alternative E-mail(s):  
MIET, UK - msaxena@thiet.org,  
MinstP, UK - msaxena@physics.org,  
SMIEEE, USA - msaxena@ieee.org,

Please do not print this email unless it is absolutely necessary. Spread environmental awareness.

To: Mr. William A. Rinehart

Greetings from AICTE & MHRD Innovation Cell...

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MHRD IICs Brochure.pdf  
1511K

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

This Memorandum of Understanding (MoU) between The NATIONAL INSTITUTE OF IMMUNOLOGY (NII), and DEEN DAYAL UPADHYAYA COLLEGE, 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, Deen Dayal Upadhyaya College is located at Sector-3, Dwarka, New Delhi-110 078;

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-Deen Dayal Upadhyaya 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 Deen Dayal Upadhyaya College commit themselves to interact through mutual consultation and formal partnership towards meeting the goal and objectives of the programme.
- b) Engagement with the Deen Dayal Upadhyaya 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 Deen Dayal Upadhyaya 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.

- 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 Deen Dayal Upadhyaya 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 Deen Dayal Upadhyaya College

- a) Deen Dayal Upadhyaya 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, Deen Dayal Upadhyaya 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

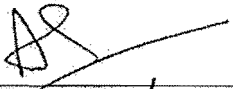


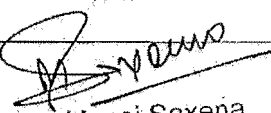
Either party to this MoU has the right to terminate the MoU upon serving a written notice of 30 days to the other party should the other party commit a breach of any of the provisions of this MoU.

6.10 Interpretation and Dispute Resolution

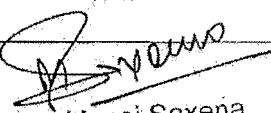
- If any dispute arises between the parties hereto arising out of or in connection with the interpretation or implementation or alleged breach of any provision of this MoU, the parties hereto shall endeavour to settle such breach amicably.
- In case the dispute cannot be resolved after reasonable attempts 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 Tuesday (DAY), 12th (DATE), March (MONTH) 2019.

Signed----- For and on behalf of the National Institute of Immunology Seal	Signed----- For and on behalf of Deen Dayal Upadhyaya College Seal Sector-3, Dwarka, New Delhi-78
Witnesses 1.  2. 	Witnesses 1. SMASHI SAXENA  2. Neha 

डॉ. अमृत्य कु. पंडा / Dr. Amulya K. Panda  
 निदेशक / Director  
 राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान  
 National Institute of Immunology  
 अरुणा आसफ अली मार्ग / Aruna Asaf Ali Marg  
 नई दिल्ली-110 067 / New Delhi- 110 067

  
 Dr. Manoj Saxena  
 Program Coordinator  
 DBT Star College Program  
 Deen Dayal Upadhyaya College  
 University of Delhi

Affirmavit



# Indian-Non Judicial Stamp Haryana Government



Date : 16/04/2019

Certificate No. E0P2019D175



Stamp Duty Paid : ₹ 101

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GRN No. 45441305



Penalty : ₹ 0

(Rs. Zero Only)

## Deponent

Name : Thsti Department of Biotechnology

H.No/Floor : Na

Sector/Ward : Na

Landmark : Na

City/Village : Faridabad

District : Faridabad

State : Haryana

Phone : 9560540582



Purpose : AGREEMENT23 to be submitted at Agreement

The authenticity of this document can be verified by scanning this QRCode Through smart phone or on the website <https://egrashry.nic.in>

## 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 DEEN DAYAL UPADHYAYA COLLEGE, hereinafter called parties of the first part and second part respectively.

2. WHEREAS THSTI located at NCR-Biotech Science Cluster, 3<sup>rd</sup> milestone, Faridabad-Gurgaon 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, Deen Dayal Upadhyaya College located at Sector-3, Dwarka, Delhi – 110078 is a constituent college of the University of Delhi;

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.

by K



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 - Deen Dayal Upadhyaya 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 Deen Dayal Upadhyaya College commit themselves to interact through mutual consultation and formal partnership towards meeting the goal and objectives of the programme.
- b) Engagement with the Deen Dayal Upadhyaya 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 Deen Dayal Upadhyaya College and shall neither involve 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 faculty/scientist within each centre of THSTI.
- c) THSTI will take care of the logistics of conveyance of the faculty/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 Deen Dayal Upadhyaya 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 Deen Dayal Upadhyaya College:

- a) Deen Dayal Upadhyaya 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 faculty/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, Deen Dayal Upadhyaya 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.

6.10 Interpretation and Dispute Resolution:



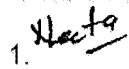
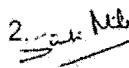
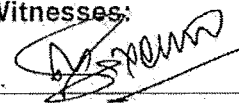
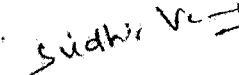
- a) If any dispute arises between the parties hereto arising out of or in connection with the interpretation or implementation or alleged breach of any provision of this MoU, the parties hereto shall endeavour to settle such breach amicably.



- b) In case the dispute cannot be resolved after reasonable attempts within one month, the MoU shall stand terminated with no obligations or liabilities on either party.

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 PARTIES HERETO HAVE EXECUTED THIS MoU ON .....(DAY), 26<sup>th</sup>.....(DATE), April.....(MONTH) 2019.

<p>Signed-----</p> <p>For and on behalf of <b>Translational Health Science and Technology Institute</b> Seal</p>	<p>Signed-----</p> <p>Actg. Principal Deen Dayal Upadhyaya College (University of Delhi) For and on behalf of <b>Deen Dayal Upadhyaya College</b> Seal</p>
<p>Witnesses: 1.  <b>Technology Management specialist</b></p> <p>2.  <b>Professional Expert (Science Communication &amp; PR)</b></p>	<p>Witnesses: 1.  <b>Dr. Manoj Saxena</b></p> <p>2.  <b>Dr. Sudhir Verma</b></p>

डा. गगनदीप कंग / Dr. Gagandeep Kang  
कार्यकारी निदेशक / Executive Director  
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

**MEMORANDUM OF UNDERSTANDING**  
between  
**Deen Dayal Upadhyaya College (University of Delhi)**  
and  
**PhiXgen Pvt. Ltd.**

This Memorandum of Understanding (MoU) is executed on 3<sup>rd</sup> May, 2019

Between

Deen Dayal Upadhyaya College and PhiXgen Pvt. Ltd.

**Background**

**I. About PhiXGen Pvt. Ltd.**

PhiXGen is committed to delivering quality services with unmatched quality. 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 Deen Dayal Upadhyaya College**

Deen Dayal Upadhyaya is a constituent college of the University of Delhi. The Government of National Capital Territory of Delhi established the college in the year 1990 in Karampura. The college receives 100% grant from the Govt. of NCT of Delhi and is recognized under 2 (f) and 12 (b) of the UGC Act. DDU caters to the students of Delhi as well as neighbouring states, particularly Haryana, Uttar Pradesh, Rajasthan, Madhya Pradesh and Bihar. Recently DDU has shifted to its new campus in Sector-3 Dwarka. The college offers nine under-graduate Honours programmes in Computer Science, Electronics, Physics, Chemistry, Botany, Zoology, Mathematics, English, Commerce and Bachelor of Management Studies. Further, we also run Bachelor's programme in Physical Science, Life Science, Mathematical Science and Bachelor in Arts. College also offers Add-on courses in Russian Language and Effective Communication and Personality Development through Theatre (ECPDT), which are very popular amongst students.

**III. Joint Activities**

PhiXgen Pvt. Ltd. and Deen Dayal Upadhyaya College 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-DDU Work plan for individual events.

#### IV. Funding

PhiXGen Pvt. Ltd. and Deen Dayal Upadhyaya College 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.

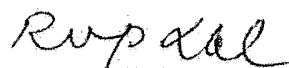
#### V. Effective Date and Duration

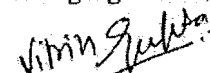
This agreement will take effect upon its signing by the representatives/authorised signatory of PhiXGen Pvt. Ltd. and Deen Dayal Upadhyaya College and shall remain in effect for a period of five years. It can be annulled at either party's request. At the end of the initial five year period, each partner will evaluate the relationship, and purpose modifications to the agreement.

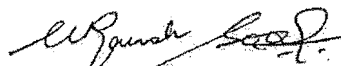
The college appoints the below mentioned coordinators for collaborating the activities that would be organized under this memorandum.

IN WITNESS WHEREOF PARTIES HERE TO HAVE, ENTERED INTO THIS AGREEMENT, EFFECTIVE AS ON THE DATE AND YEAR FIRST WRITTEN ABOVE.

For PhiXGen Pvt. Ltd.

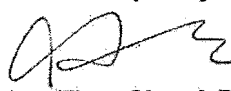
  
Prof. Rup Lal  
Managing Director

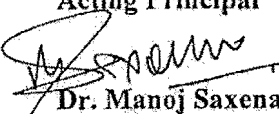
  
Dr. Vipin Gupta  
Director

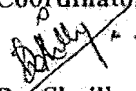
  
Dr. Utkarsh Sood  
Director

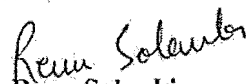
Date: 3<sup>rd</sup> May, 2019

For Deen Dayal Upadhyaya College

  
Dr. Hem Chand Jain  
Acting Principal  
Deen Dayal Upadhyaya College  
(University of Delhi)  
Sector-3, Dwarka, New Delhi-78

  
Dr. Manoj Saxena  
Coordinator, IQAC

  
Dr. Shailly Anand  
Coordinator

  
Dr. Renu Solanki  
Coordinator

Date: 3<sup>rd</sup> May, 2019



## दीन दयाल उपाध्याय कॉलेज DEEN DAYAL UPADHYAYA COLLEGE

NAAC Accredited Institution- 'B' grade (CGPA=2.63)

(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, द्वारका, नई दिल्ली New Delhi - 110078

दूरभाष/TEL. 011-25099380, 25099381, फैक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in



Meeting of Institute Innovation Council was held on May 03, 2019 at 2:00 pm in committee room of the College. Following members were present:

- Dr. Poonam Kasturi, Associate Professor in Electronics
- Ms. Shweta Wadhwa Assistant Professor in Computer Science
- Dr. Sudhir Verma, Assistant Professor in Zoology
- Dr. Manoj Saxena, Associate Professor in Electronics (Coordinator, IIC-DDUC Chapter)

### Agenda

- Reporting by Ms. Shweta Wadhwa, Nodal Officer (Smart India Hackathon 2019)
- To create a vibrant local innovation ecosystem
- Establish Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas
- Establishment of Start-up/ entrepreneurship supporting Mechanism in College
- Any other Matter

Members after long deliberations and discussions unanimously resolved:

### Agenda No. 1 –

Ms. Shweta Wadhwa presented a detail report about the Problem Statements undertaken by the students of the college under mentorship of the faculty members (Annexure-A)

### Agenda No. 2 –

In order to promote innovation in the Institution through multitudinous modes leading to an innovation promotion eco-system in the campus, IIC should

- Conduct various innovation and entrepreneurship-related activities prescribed by Central MHRD-MIC in time bounded fashion.
- Identify and reward innovations and share success stories.
- Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- Network with peers and national entrepreneurship development organizations.
- Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
- Organize Hackathons, idea competition, mini-challenges etc with the involvement of industries.

### Agenda No. 3 –

In order to continue and motivate students and faculty members towards Innovation and Entrepreneurship, a dedicated space for Innovation and Incubation Centre (IIC) should be established in the college. It is recommended that

- 2 - 3 external experts from nearby Incubation Centre should be part of the DDUC-IIC.
- Dedicated infrastructure, equipments and softwares pertaining to pre-incubation, incubation and advance labs facilities should be created in college from the Research Endowment Fund towards promoting and supporting innovation and start-ups.
- IIC should optimally utilize Research Endowment Fund towards financially supporting Innovative students' projects to be carried out under joint mentorship of faculty member(s) of the college and external expert from National and/or International reputed Industry, R&D lab. Maximum



# दीन दयाल उपाध्याय कॉलेज DEEN DAYAL UPADHYAYA COLLEGE

NAAC Accredited Institution-'B' grade (CGPA=2.63)

(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, टारका, Sector-3, Dwarka, नई दिल्ली New Delhi - 110078

दूरभाष/TEL: 011-25099380, 25099381, फैक्स/FAX: 011-25099380, Website: www.dducollegedu.ac.in



funding for each project should be upto Rs. 50,000. Modalities of monitoring and disbursement of funds to be framed by DDUC-IIC.

- iv. Innovation and Incubation Centre should be created on Sixth Floor with adequate infrastructure and following equipments:

S. No.	Items	Cost per item (in Rs.)	Qty	Total Amount (in Rs.)
1.	Desktop Computer (8 GB RAM, 1 TB, Intel i8 etc) pre-loaded Windows and MS Office	80,000	5	4,00,000
2.	B/W Duplex Printer	30,000	1	30,000
3.	LCD Projector	1,00,000	1	1,00,000
				5,30,000

The necessary funds related to IT related equipments may be allocated from the ICT fund of the college.

**Agenda No. 4** - Under DBT star College Program, the college has signed MoU with National Institute of Immunology (NII) (*Annexure-B*), The Translational Health Science and Technology Institute (An Autonomous Institute of DBT, Ministry of Science and technology, Govt of India) (*Annexure-C*) and PhiXgen pvt. Ltd. (*Annexure-D*) with an aim to encourage entrepreneurship aptitude in students.

In this direction as computational Biology is an interdisciplinary area with tremendous scope of learning, training and employment but the skills and knowledge in this field are not well integrated into Undergraduate education. The existing curricular gap is limiting the students to harness the full potential of their education, slowing down their innovative skills and narrowing down their career prospects. Thus, a small Bioinformatics Centre with necessary infrastructure shall be set up on sixth floor for running add-on and certificate courses, hands-on workshops, summer trainings, additional practicals etc with following equipments:

S. No.	Items	Cost per item (in Rs.)	Qty	Total Amount (in Rs.)
1.	Desktop Computer (8 GB RAM, 1 TB, Intel i8 etc) pre-loaded Windows and MS Office	80,000	10	8,00,000
2.	Server	3,00,000	1	3,00,000
3.	B/W Duplex Printer	30,000	1	30,000
4.	LCD Projector	1,00,000	1	1,00,000
				12,30,000

Deen Dayal Upadhyaya College Innovation and Incubation Centre would provide students an opportunity to work on challenges faced within the private sector organisations and create world class solutions for some of the top companies in the world, thus helping the Private sector hire the best minds from across the nation.

Further to enhance the approach and aptitude for incubation and entrepreneurship in students, the college plans to start a short-term course on Entrepreneurship and establish an alliance with National Institute for Entrepreneurship and Small Business Development (NIESBUD). The aim and objective of the same is to invite people from various government and private funding agencies to brief students about what they look for in a project proposal before accepting it for funding.

*[Signature]*

P. Kasturi  
03/05/2019

*[Signature]*  
03/05/19

*[Signature]*  
03/05/19



# दीन दयाल उपाध्याय कॉलेज DEEN DAYAL UPADHYAYA COLLEGE

NAAC Accredited Institution-'B' grade (CGPA=2.63)

(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, द्वारका, Sector-3, Dwarka, नई दिल्ली New Delhi - 110078

दूरभाष/Tel 011-25099380, 25099381, फैक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in



## Annexure-A

### Detail Report on Smart India Hackathon 2019

As per UGC letter (Annexure-I), Institutions have to participate in Smart India Hackathon 2019 which is a nationwide initiative to provide students a platform to solve some of pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving. The last edition of the hackathon saw over 5 million+ students from various engineering colleges compete for the top prize at 35+ locations. In SIH 2019, the students would also have the opportunity to work on challenges faced within the private sector organisations and create world class solutions for some of the top companies in the world, thus helping the Private sector hire the best minds from across the nation.

#### Why join SIH 2019?

- Get innovative solutions to your problems in cost effective ways
- Opportunity to brand your organization nationally
- Recognition and visibility for your organization across all technical institutions in India
- Young techies from all over the country offer out-of-the-box solutions to your problems
- Be part of World's biggest Open Innovation Movement
- Opportunity to work with some of the best talent in the country

In order to participate in SIH 2019, college appointed two SPOCs (single point contact persons) to register on behalf of the Innovation Cell of the college.

- Dr. Poonam Kasturi, Associate Professor, Department of Electronics (Hardware Edition)
- Ms. Shweta Wadhera, Assistant Professor, Department of Computer Science (Software Edition)

The Following Sub-Committees were approved for motivating students to participate in SIH 2019

#### Software Edition

- Ms. Shweta Wadhera, Assistant Professor, Department of Computer Science
- Dr. Ankit Rajpal, Assistant Professor, Department of Computer Science
- Dr. Rajan Gupta, Assistant Professor, Department of Computer Science

#### Hardware Edition

- Dr. Poonam Kasturi, Associate Professor, Department of Electronics
  - Dr. Manoj Saxena, Associate Professor, Department of Electronics and Coordinator - MHRD Innovation Cell (DDUC Chapter)
  - Ms. Neha, Assistant Professor, Department of Electronics
- List of projects undertaken SIH 2019 (Software and Hardware Edition) – (Annexure-II)
  - List of Additional Projects being undertaken and Displayed in Science Festival held during March 11-12, 2019 – (Annexure-III)

Despite of two months of hard-work by our students and faculty members, our teams could not qualify for the Second Round of SIH 2019 (Software and Hardware Edition) because of the following reasons:

1. Students need regular interaction and guidance from Professionals of Industries to better understand the problem statements as listed in the SIH 2019.
2. Dedicated space with adequate infrastructure and equipments (Hardware and Software) is required so that students can spend more time on their projects.
3. Financial support from the Institution is required for cultivating problem-based learning and outcome-based projects.

*[Signature]*  
03/05/2019

*[Signature]*  
03/05/2019

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03/05/19

*[Signature]*  
03/05/19





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## Annexure-I

प्रो. रजनीश जैन  
सचिव

Prof. Rajnish Jain  
Secretary

## विश्वविद्यालय अनुदान आयोग University Grants Commission

महानगर नगरपालिका, नया दिल्ली  
Ministry of Education, Government of India

बहादुर शाह ज़ाफर मार्ग, नई दिल्ली-110002  
Bahadur Shah Zafar Marg, New Delhi-110002

Ph. : 011-23236288/23239337

Fax : 011-2323 8858

E-mail : secy.ugc@nic.in

### Public Notice

No.F. 14-32/2018(CPP-II)

December 19, 2019

As you are aware, Smart India Hackathon (SIH) is a nationwide initiative aimed at providing platform for our technology students to offer innovative solutions for pressing problems, thus inculcating a culture of product innovation and a mind-set of problem solving. The primary objective of SIH is to harness the creative energy and ability of our technology students across all technology institutions (more than 50 lakh students from 6000+ institutions) to think out-of-the-box and offer innovative solutions for the development of our nation. Undoubtedly, SIH has helped India establish world's largest Open Innovation Initiative. The Smart India Hackathon 2019 would involve two sub-editions:

- Software Edition will be 36 hour non-stop software product development competition
- Hardware Edition will be a 5 days long hardware product development competition

For SIH2019, the problem statements have been received from 90+ private companies (eg: Tata, Mahindra, ITC, Unilever, Indian Oil, GE Healthcare, etc.) and 18 Central (ISRO, Dept. of Atomic energy, MHRD, etc.) organizations.

The Hon'ble PMO is actively supporting this initiative and Hon'ble Minister for Human Resource Development Shri Prakash Javadekar is personally monitoring the status of students' participation in Smart India Hackathon 2019 from all Higher Education Institutions and especially from IIT/NIT/IIIT/IISER.

The 'Problem Statements' for Smart India Hackathon 2019 (SIH2019) are available at [www.sih.gov.in](http://www.sih.gov.in).

I am happy to inform you that for the first time, it has been decided that the students who participate in Smart India Hackathon 2019 will have the opportunity to win large number of prizes worth more than Rs. 2.5 crores. The advertisement detailing eligibility and other details is enclosed.

It is expected to have 10-15 teams per institution/university in the first round of idea submission. The last date for idea submission is 20<sup>th</sup> January, 2019. The 'Grand Finale' for Software Edition would be held on 9 - 10<sup>th</sup> March, 2019 and for Hardware Edition in second week of June, 2019.

It is requested that the Institutions and students participate in SIH 2019 for making it a grand success.

For further details you may contact Mr. Vivek Kulkarni (9689984200) or Dr. Mohit Gambhir (9810341200) or Ms. Disha Singh (9881237573).

(Rajnish Jain)

Prashant  
03/05/2019

Sunil V-7  
03/05/19

03/05/19



**दीन दयाल उपाध्याय कॉलेज**  
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**Annexure-II**

**List of projects undertaken SIH 2019 (Software Edition)**

**AI powered sever log management**

Ankush Khanna (Team Leader), Harsh Rai, Mohit Behl, Tarun Sharma, Gunjan Ahuja, Divanshu Tyagi  
Mentor: Ankit Rajpal, Assistant Professor, DDU College, University of Delhi.

**Ensuring effective detection of currency counterfeits across different touch points**

Riya Swami Shaddha (Team Leader), Mayank Aggarwal, Abhishek Sharma, Mohd Monish, Nikhil Kumar

Mentor: Ankit Rajpal, Assistant Professor, DDU College, University of Delhi.

**Affordable monitoring systems for societies parking lot**

Himanshu (Team Leader), Bhawna Sehgal, Riddhi Kwatra, Ankit, Naveen, Himanshu Madan  
[himansingh24@gmail.com](mailto:himansingh24@gmail.com)

Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.

**List of projects undertaken SIH 2019 (Hardware Edition)**

**Stop Noise pollution from Honking**

Praveen Kumar chaturvedi, Ajay Joshi, Sahil, Ashutosh Kumar Mishra, Shivam Kumar Singh, Sneha  
B. Sc.(H) Electronics – Ist Year/ IInd Year / IIIrd Year

Mentor: Dr. Poonam Kasturi, Associate Professor, Department of Electronics

**Smart Irrigation System**

Praveen Kumar chaturvedi, Ajay Joshi, Sahil, Ashutosh Kumar Mishra, Shivam Kumar Singh, Sneha  
B. Sc.(H) Electronics – Ist Year/ IInd Year / IIIrd Year

Mentor: Dr. Manoj Saxena, Associate Professor, Department of Electronics

**Audio guide for Patient regarding Doctor Prescript**

Ekansh, Navneet, Mansi, Mannat, Asha, Anushka  
B. Sc.(H) Electronics – Ist Year

Mentor: Ms. Neha, Assistant Professor, Department of Electronics

**Smart Dustbins**

Ekansh, Navneet, Mansi, Mannat, Asha, Anushka  
B. Sc.(H) Electronics – Ist Year

Mentor: Ms. Neha, Assistant Professor, Department of Electronics

**Tracking Board for unsafe Act**

Ekansh, Navneet, Mansi, Mannat, Asha, Anushka  
B. Sc.(H) Electronics – Ist Year

Mentor: Ms. Neha, Assistant Professor, Department of Electronics

*[Signature]*

*P. Kasturi*  
03/05/2019

*Sudhakar*  
03/05/19

*Shruti*  
03/05/19



**दीन दयाल उपाध्याय कॉलेज**  
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**Annexure-III**

**List of Additional Projects being undertaken and Displayed in Science Festival held during March 11-12, 2019**

1. Notekeeper App  
Himanshu, Ankit Saransh, Naveen Rohilla  
[himansingh24@gmail.com](mailto:himansingh24@gmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
2. Innovative Com App  
Dewansh Pratap Singh, Shaurya Dubey, Pranjul  
[pranjulrocks009@gmail.com](mailto:pranjulrocks009@gmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
3. Expense Manager App  
Vineet Kumar, Nikhil Yadav, Rishabh Jain, Vipin Kaushik  
[vipin2000kaushik@gmail.com](mailto:vipin2000kaushik@gmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
4. Mivok App  
Aleesha Wadhera, Bhawna Sehgal, Sonam Kumari  
[Bhawnasehgal.1999@gmail.com](mailto:Bhawnasehgal.1999@gmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
5. Society Management System  
Kiran Rana, Parul Sehrawat, Riddhi Kwatra, Saloni Ajmera  
[Kiran.rana0128@gmail.com](mailto:Kiran.rana0128@gmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
6. Insta Transport App  
Nitesh Kumar, Tarun Verma, Ricky, Mukul  
[niteshkr@yahoo.in](mailto:niteshkr@yahoo.in)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
7. Eupho.ny App  
Bhavesh Mehta, Sarif, Tushar, Yash  
[Bhavesh622@hotmail.com](mailto:Bhavesh622@hotmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
8. Food App  
Rashi Jain, Sakshi Singhal, Vishnupriya  
[rashij487@gmail.com](mailto:rashij487@gmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
9. Cricket Thermometer  
Himanshu Madan, Saurabh Anand, Ashish Ruhil, Divyansh Gupta  
[himanshumadan1059@gmail.com](mailto:himanshumadan1059@gmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
10. True Value App  
Sachin Kumar Singh, Arun Rajak, Manish Kumar  
[Sachinsingh2212@gmail.com](mailto:Sachinsingh2212@gmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.

P. K. Singh  
03/05/2019

Shruti  
03/05/19

Smruti  
03/05/19



# दीन दयाल उपाध्याय कॉलेज DEEN DAYAL UPADHYAYA COLLEGE

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दूरभाष/TEL. 011-25099380, 25099381, फैक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in



11. Groomer  
Manish Chauhan, Nigam Yadav, Rajat Sharma, Nishant Yadav  
[1998.nishant Yadav@gmail.com](mailto:1998.nishant Yadav@gmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
12. Clean App  
Prashant Arya  
[prashant31arya@gmail.com](mailto:prashant31arya@gmail.com)  
Mentor: Rajan Gupta, Assistant Professor, DDU College, University of Delhi.
13. Digital Clock using AVR  
Ekansh, Navneet, Devansh  
B. Sc.(H) Electronics – Ist Year  
Mentor: Ms. Neha, Assistant Professor, Department of Electronics
14. Line Follower Robot  
Devansh, Ekansh, Navneet,  
B. Sc.(H) Electronics – Ist Year  
Mentor: Dr. Manoj Saxena, Associate Professor, Department of Electronics
15. Retro Watch  
Ekansh, Navneet, Devansh  
B. Sc.(H) Electronics – Ist Year  
Mentor: Ms. Neha, Assistant Professor, Department of Electronics
16. Touch Sensor  
Rajat, Arun, Dipanshu, Ritik  
B. Sc.(H) Electronics – Ist Year  
Mentor: Dr. Poonam Kasturi, Associate Professor, Department of Electronics
17. QuadCopter  
Ajay Joshi, Sahil, Sukrit, Sonam  
B. Sc.(H) Electronics – IInd Year  
Mentor: Dr. Manoj Saxena, Associate Professor, Department of Electronics
18. Self Balancing ROBOT  
Ajay Joshi, Sahil, Sukrit  
B. Sc.(H) Electronics – IInd Year  
Mentor: Dr. Poonam Kasturi, Associate Professor, Department of Electronics
19. Smart Stick  
Mansi, Mannat, Sneha  
B. Sc.(H) Electronics – Ist Year  
Mentor: Dr. Manoj Saxena, Associate Professor, Department of Electronics
20. Edge Detector  
Mansi, Mannat, Sneha  
B. Sc.(H) Electronics – Ist Year  
Mentor: Dr. Poonam Kasturi, Associate Professor, Department of Electronics

*[Signature]*

PKasturi  
03/05/2019

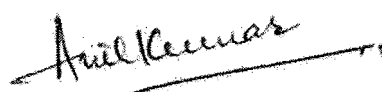
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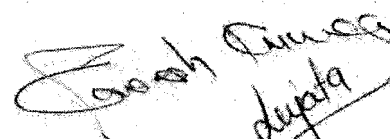
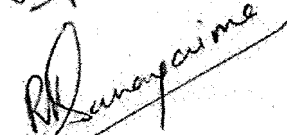
Sudhar V. J.  
03/05/19

## DEEN DAYAL UPADHAYAYA COLLEGE

### Total ICT Requirement of the College

Sr. No.	Department/Lab/Room	Expected Cost (Rs.)
1	ICT REQUIREMENTS FOR THE 2 <sup>nd</sup> FLOOR COMPUTER CENTER	84,79,000/-
2	ICT REQUIREMENTS FOR THE 6 <sup>th</sup> FLOOR EXHIBITION HALL	3,29,000/-
3	ICT REQUIREMENTS FOR THE 6 <sup>th</sup> FLOOR CONFERENCE ROOM-1 and 2	3,43,000/-
4	ICT REQUIREMENTS FOR THE AUDITORIUM	3,10,000/-
5	Innovation and Incubation Centre	5,30,000/-
6	Bio-Informatics Centre	12,30,000/-
7	Portable PA Amplifier system	1,30,000/-
8	COLOUR PRINTER for in house Printing of Certificate	2,00,000/-
9	Plagiarism Check software	3,50,000/-
10	Licensed Software for Labs	9,00,000/-
11	Photo Copy Machine for office, Accounts and Examination	7,50,000/-
	<b>Total</b>	<b>1,35,51,000/-</b>


  
 Convenor, Computer Centre

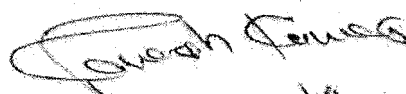
  
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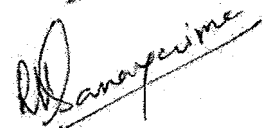
# DEEN DAYAL UPADHAYAYA COLLEGE

## ICT REQUIREMENTS FOR THE 2<sup>nd</sup> FLOOR COMPUTER CENTER

SNO	DESCRIPTION AND SPECIFICATION	QTY	Unit price	Cost Approx.
1	<b>Sound System for computer Centre</b>			
	<b>SPEAKERS</b> : P.A. Ceiling Speaker 2 way	10	3,000	30,000/-
	<b>SOUND AMPLIFIER</b> : P.A. Amplifier with built in Digital player	1	30,000	30,000/-
	<b>COLLAR MIC</b> : Dual Lapel Microphone	1	7,000	7,000/-
	<b>Wireless Dual Handheld Microphone</b>	1	6,000	6,000/-
	<b>WIRED MIC with Stand</b>	2	6,000	12,000/-
	<b>ARMORED SPEAKER CABLE</b> : 32/0.2 mm sq. 2 core shielded low loss copper audio cable	100 Mtr.	250	25,000/-
	<b>Equipment Rack for amplifier and other devices</b>	1	9,000	9,000/-
	<b>Installation of the Audio System</b>	-	10,000	10,000/-
2	<b>DSLR CAMERA FOR VIDEO AND PHOTOS WITH ACCESSORIES</b> CANON EOS R or any advance model Full frame mirrorless camera with standard 18-55mm Kit lens- 1 Qty. • Canon EF-S 10-18MM f/4.5-5.6 IS - 1 Qty. • 24-105mm all-purpose lens- 1 Qty.	1	3,50,000	3,50,000/-
3	<b>DESKTOP COMPUTER</b> Core i7, 16GB RAM, 2 TB Hard Disk, 4 GB dedicated Graphics card (NVIDIA/GFORCE/AMD REDEON on board or external), standard business tower cabinet with inbuilt Wi-Fi and 22inch HD LED monitor, separate audio and Mic port Pre-Installed Lifetime Windows subscription and Lifetime MS office Subscription	80	80,000	64,00,000/-
4	<b>SERVER</b> 2x Intel Xeon Silver 4116 2.1G, 12C/24T, 128 GB (32x4) RAM frequency should be compatible with processor- 2666MT/s dual Rank, 2 PCL slots- E 3.0x16 Slots with x16 bandwidth, 3x 2TB NLSAS 12 GBPS 7.2 PRM (Hot swappable ) Hard Disk, Hardware Raid on board 0,1 ,2x Gigabit(10/100/1000Mbps) Ethernet Ports on board Network Interface card, 2 USB ports, 1 Video ports, Power Cable (Indian Design) DVD writer, Server should support Red hat, Ubuntu and Windows, where it should be pre-Installed with windows server 2019 (upgradable).	1	5,00,000	5,00,000/-
5	<b>LED Laser Projector</b> HD 4K Digital LED Projector HDMI Ports, VGA port, RJ 45 port Enabled WIFI, Attached speakers, Audio Out, Audio in port, RCA cable enabled, USB port, Resolution: 1280 x 800, Aspect Ratio: 16:10, Rated Contrast Ratio: 1800:1, Rated Brightness: 3000 ANSI lumens, screen	1	2,00,000	2,00,000/-
6	<b>DIGITAL SIGNAGE PANEL</b> 4K Ultra HD 55 inch or above with Network ability and Digital signage software with lifetime subscription	6	1,50,000	9,00,000/-
<b>TOTAL</b>				<b>Rs.84,79,000/-</b>

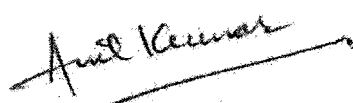
  
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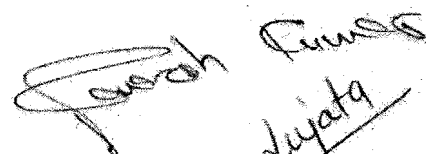
  
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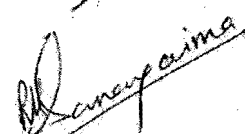
  


**DEEN DAYAL UPADHAYAYA COLLEGE**  
**ICT REQUIREMENTS FOR THE 6<sup>th</sup> FLOOR EXHIBITION HALL**

SNO	DESCRIPTION AND SPECIFICATION	QUANTITY	Unit price	Cost Approx.
1	Sound System for computer Centre			
	SPEAKERS : P.A. Ceiling Speaker 2 way	10	3,000	30,000/-
	SOUND AMPLIFIER: P.A. Amplifier with built in Digital player	1	30,000	30,000/-
	COLLAR MIC: Dual Lapel Microphone	1	7,000	7,000/-
	Wireless Dual Handheld Microphone	1	6,000	6,000/-
	WIRED MIC with Stand	2	6,000	12,000/-
	ARMORED SPEAKER CABLE: 32/0.2 mm sq. 2 core shielded low loss copper audio cable	100 Mtr.	250	25,000/-
	Equipment Rack for amplifier and other devices	1	9,000	9,000/-
	Installation of the Audio System	-	10,000	10,000/-
2	LED Laser Projector HD 4K Digital LED Projector HDMI Ports, VGA port, RJ 45 port Enabled WIFI, Attached speakers, Audio Out, Audio in port, RCA cable enabled, USB port, Resolution: 1280 x 800, Aspect Ratio: 16:10, Rated Contrast Ratio: 1800:1, Rated Brightness: 3000 ANSI lumens	1	2,00,000	2,00,000/-
<b>TOTAL</b>				<b>Rs. 3,29,000/-</b>

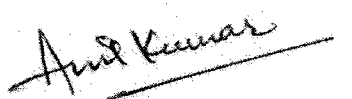
  
 Convenor, Computer Centre

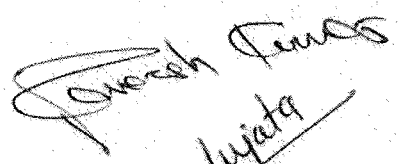
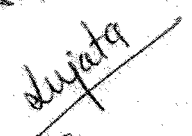
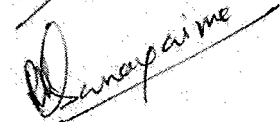
  
 Members

  
 Members

**DEEN DAYAL UPADHAYAYA COLLEGE**  
**ICT REQUIREMENTS FOR THE 6<sup>th</sup> FLOOR CONFERENCE ROOM-1 and 2**

SNO	DESCRIPTION AND SPECIFICATION	QUANTITY	Unit price	Cost Approx.
1	SPEAKERS: P.A. Ceiling Speaker 2 Way	4	3,000	12,000
	SPEAKER AMPLIFIER : P.A. Amplifier with built in Digital player	2	15,000	30,000
	WIRED MIC with Stand	2	6,000	12,000
	Wireless Dual Handheld Microphone	2	6,000	12,000
	Installation charges	2	6,500	13,000
	ARMORED SPEAKER CABLE: 32/0.2 mm sq. 2 core shielded low loss copper audio cable	200 Mtr.	250	50,000
	COLLAR MIC: Dual Lapel Microphone	2	7,000	14,000
4	LED Laser Projector HD 4K Digital LED Projector HDMI Ports, VGA port, RJ 45 port Enabled WIFI, Attached speakers, Audio Out, Audio in port, RCA cable enabled, USB port, Resolution: 1280 x 800, Aspect Ratio: 16:10, Rated Contrast Ratio: 1800:1, Rated Brightness: 3000 ANSI lumens	2	1,00,000	2,00,000
TOTAL				Rs.3,43,000/-

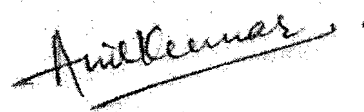
  
 Convenor, Computer Centre

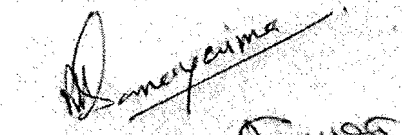
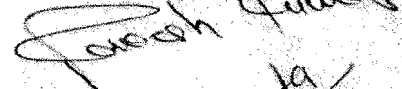

  
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## DEEN DAYAL UPADHAYAYA COLLEGE ICT REQUIREMENTS FOR THE AUDITORIUM

SNO	DESCRIPTION AND SPECIFICATION	QUANTITY	Unit price	Cost Approx.
1	<b>VIDEO CAMERA</b> <ul style="list-style-type: none"> <li>• Canon/Sony/Panasonic Professional Camcorder with LCD display and advance high Genuine Canon 20x High Definition Optical Zoom Lens</li> <li>• New, Advanced HD CMOS Pro Image Sensor with Improved Low-light Performance</li> <li>• Full HD 1920x1080 Recording Capabilities</li> <li>• 3.0-inch LCD Capacitive Touchscreen with Tilt able Electronic Viewfinder</li> </ul>	2	1,50,000	3,00,000/-
2	<b>P.A Gooseneck Mic 23"</b>	4	2500	10,000/-
<b>TOTAL</b>				<b>Rs.3,10,000/-</b>

  
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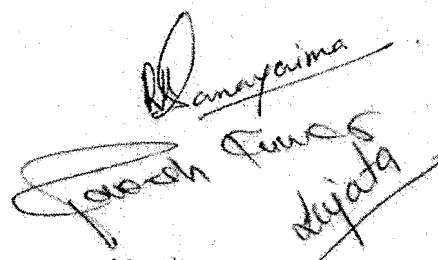
## DEEN DAYAL UPADHAYAYA COLLEGE

### Portable PA Amplifier system

SNO	DESCRIPTION AND SPECIFICATION	QUANTITY	Unit price	Cost Approx.
1	Portable PA Amplifier system with battery	2	15,000	30,000/-
	WIRED MIC for Portable PA Amplifier system	2	4,000	8,000/-
2	PORTABLE PA ADRESSING SYSTEM Power Output 250W, RMS at 1% THD, 200W RMS at 0.5% THD Output Regulation $\leq 0.5\text{dB}$ , no load to full load at 1kHz Input Channels 3 $\times$ Mic 2.0mV/4.7k $\Omega$ , 1 $\times$ Aux 250mV/470k $\Omega$ , Line in: 1V/10k $\Omega$ , Frequency Response 35-20,000Hz $\pm 3\text{dB}$ , Signal to Noise Ratio 60dB, Tone Controls Bass: $\pm 5\text{dB}$ at 100Hz, Treble: $\pm 5\text{dB}$ at 10kHz Line Output 1V/1k $\Omega$ Digital Player MP3 Player with USB, SD/MMC Card Reader and Bluetooth Protections AC: Fuse 1 $\times$ 4A (T 4A L) DC: 2 $\times$ 6A Fuse (T 6A L) Power Supply AC: 220-240V 50/60 Hz DC Output 12V/500mA AC Power Consumption 300VA	2	30,000	60,000/-
	WIRED MIC FOR 250W PORTABLE PA SYSTEM	2	4,000	8,000/-
	WIRELESS MIC FOR 250W PORTABLE PA SYSTEM	2	6,000	12,000/-
	SPEAKER TROLLEY/FLIGHT CASE	2	6,000	12,000/-
	Total			1,30,000/-



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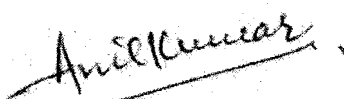


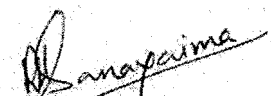
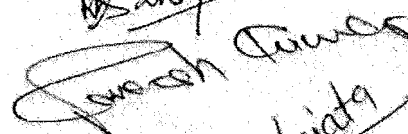
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## DEEN DAYAL UPADHAYAYA COLLEGE

### COLOUR PRINTER for in house Printing of Certificate

SNO	DESCRIPTION AND SPECIFICATION	QUANTITY	Unit price	Cost Approx.
1	<b>COLOUR PRINTER</b> A4 and A3 All-in-One Color Ink tank Printer55 A3 All-in-One Color Ink Tank Printer with additional one set of Ink refill (included) For Certificate Printing	2	1,00,000	2,00,000/-

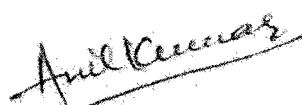
  
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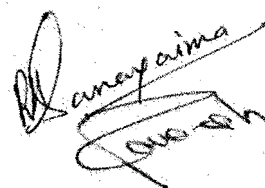
## DEEN DAYAL UPADHAYAYA COLLEGE

### Plagiarism Check software

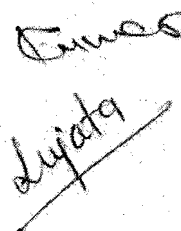
SNO	DESCRIPTION AND SPECIFICATION	QUANTITY	Unit price	Cost Approx.
1	Plagiarism Check software with lifetime license and free demo by the company	1	3,50,000	3,50,000/-



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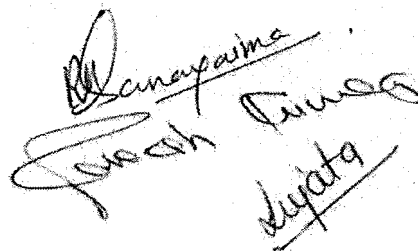
## DEEN DAYAL UPADHAYAYA COLLEGE

### Licensed Software for Labs

SNO	DESCRIPTION AND SPECIFICATION	QUANTITY	Unit price	Cost Approx.
1	Lifetime license for Microsoft Office 2019 (Upgradable package) 50 for Business Lab, 20 for Language Lab, 20 others	100	8000	8,00,000/-
2	Lifetime license for Microsoft windows (Upgradable package) for Language Lab	20	5000	1,00,000/-
	Total			9,00,000/-



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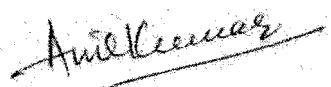


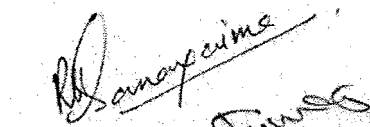
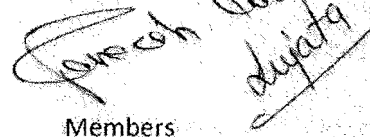
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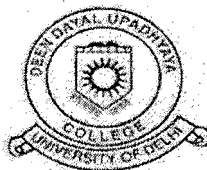
## DEEN DAYAL UPADHAYAYA COLLEGE

Photo Copy Machine for office, Accounts and Examination

SNO	DESCRIPTION AND SPECIFICATION	QUANTITY	Unit price	Cost Approx.
1	Photo Copy Machine (A-3 Print Scan Copy with a speed of at least 25 PPM) for Examination, Office Admin, and Accounts Office	3	2,50,000	7,50,000/-

  
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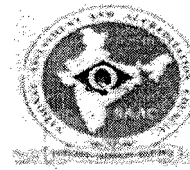
# दीन दयाल उपाध्याय कॉलेज DEEN DAYAL UPADHYAYA COLLEGE

NAAC Accredited Institution-'B' grade (CGPA=2.63)

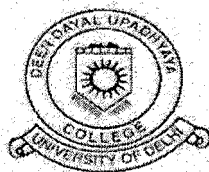
(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, द्वारका, New Delhi - 110078

दूरभाष/TEL: 011-25099380, 25099381, फैक्स/FAX: 011-25099380, Website: www.dducollege.edu.ac.in



Department	Room No.	Type of Room Laboratory/Deptt. Library/Research Lab.	Give Details of Type and No. of Air-Conditioners existing in Lab. (Chiller/Split AC/Window AC etc.)	Additional Split Air- Conditioners required	Justification for Additional Air- Conditioners	Remarks
Botany	217	Research Lab.	Split AC - 01	01	Maintenance of sophisticated instruments	Email received from Dr. Varnika Bhatia dt Feb 21, 2019
Botany	218	Museum cum Lab.	NIL	02	Maintenance of instruments and performing undergraduate practicals	Email received from Dr. Varnika Bhatia dt Feb 21, 2019
Botany	221	Lab. 1	NIL	03	Maintenance of instruments and performing undergraduate practicals	Email received from Dr. Varnika Bhatia dt Feb 21, 2019
Botany	222	Lab. 2	NIL	03	Maintenance of instruments and performing undergraduate practicals	Email received from Dr. Varnika Bhatia dt Feb 21, 2019
Commerce	315	Dept. Library	No AC	01		Email received from Dr. Shalini Bhatia dt Feb 21, 2019
Electronics	113	Dept. Library/ Research Lab.	No AC Installed	01	Sun facing Small Room. Becomes Blistering hot in Summer.	Email received from Dr. Ravinder Kaur dt Feb 21, 2019
NCWEB	511	NCWEB Office	NO A.C.	01	We run NCWEB office from Room No. - 511. The entire team of eleven members along with TIC has to conduct the admission, exams and other administrative work from this room. The room becomes very hot in summer and it becomes difficult to operate. So kindly allocate us an A.C.	Email received from Dr. Jayini Adhyapak dt Feb 22, 2019
Physics	105	Laboratory	Split AC - 02	01	As Two are not sufficient for cooling a large area	Email received from Dr. Savita Gehlaut dt Feb 22, 2019



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NAAC Accredited Institution-'B' grade (CGPA=2.63)

(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, टागोर, Sector-3, Dwarka, नई दिल्ली New Delhi - 110078



दूरभाष/TEL: 011-25099380, 25099381, फैक्स/FAX: 011-25099380, Website: www.dducollegedu.ac.in

Physics	106	Laboratory	Split AC – 01	02	As One is not sufficient for cooling a large area	Email received from Dr. Savita Gehlaut dt Feb 22, 2019
Physics	110	Library	No A.C.	02	A.C. are required for smooth working.	Email received from Dr. Savita Gehlaut dt Feb 22, 2019
Zoology	206	Laboratory	No AC	03	Maintenance of instruments and performing undergraduate practicals	Email received from Dr. Lathika Nair dt Feb 24, 2019
Zoology	207	Laboratory	No AC	03	Maintenance of instruments and performing undergraduate practicals	Email received from Dr. Lathika Nair dt Feb 24, 2019
Zoology	209	Museum	No AC	02	Maintenance of instruments and performing undergraduate practicals	Email received from Dr. Lathika Nair dt Feb 24, 2019
Zoology	211	Research Laboratory	No AC	02	Maintenance of instruments and performing undergraduate practicals	Email received from Dr. Lathika Nair dt Feb 24, 2019
Humanities	512	Library	No AC	01		Letter from Teacher-in-Charge Humanities
Girls Common Room	311	Girls Common Room	No AC	02	Newly Created facility	GCR Recommendation
Bioinformatic Centre	Sixth Floor		No AC	02	Newly Created facility	IQAC Recommendation
Innovation and Incubation Centre	Sixth Floor		No AC	02	Newly Created facility	IQAC Recommendation
IQAC Secretariat	Sixth Floor		No AC	02	Shifted from Ground Floor as Medical Room is to be created for students	IQAC Recommendation
Library Server Room			No AC	01		Recommendation of Librarian received via email dt May 08, 2019
Chemistry Lab	Ground Floor		No AC	03		Recommendation of TIC Chemistry received via email dt May 08, 2019
				40		