

2017

# ACHARYA NARENDRA DEV COLLEGE



# **ABOUT THE COLLEGE**

**Acharya Narendra Dev College** is a constituent college of University of Delhi situated in Govindpuri (Kalkaji), Delhi. Established in 1991, it has a unique distinction of being the only college in the University of Delhi that is primarily for science. Though young, Acharya was listed among the ten best colleges in Science in the India Today survey in 2010. In 2014 Acharya Narendra Dev college was ranked 8th among the best science colleges in the university of delhi in the india today nielsen survey. In the 25 years since its inception, the college, guided by its twin philosophies of “Preparing for the future” and “Beyond the Classroom” has gained much recognition for its efforts in various fields, such as theatre, social work, entrepreneurship, research and most of all, its academic rigour and teaching methodologies. This has led to the college receiving various awards and recognitions, such as:

1. OPAL Award, 2011.
2. First Place, “Good Practices Award”, Antardhwani 2015, as well as third place at Antardhwani 2013 and 2014.
3. Ranked as one of the top 10 science colleges in Delhi five years running.
4. Ranked as one of the top 50 science colleges in India.
5. Accredited “A” by NAAC.

The B.Tech CSE and Electronics batches will be graduating from the college in the year 2017. The faculty of the college takes immense pleasure in inviting companies for the recruitment of the students of the college.

The B.Tech courses are AICTE approved.

## ***FROM THE PRINCIPALS DESK***



***“Students are taught not just facts they are exposed to attitudes and approaches that teach them to think independently, the effort is to nurture them to autonomous learners”***

# INSIGHT INTO THE COLLEGE



## ACHARYA NARENDRA DEV COLLEGE (University of Delhi)



Winner of **Award for Good Practices** in all the three editions of University of Delhi's academic and cultural festival ANTARDHWANI: 2015 (First), 2014 (Third) and 2013 (Third)



### Preparing for the Future...

Through unique initiatives...

- **UNDERGRADUATE RESEARCH:** augments the teaching-learning process through various projects funded by Govt. agencies. Has resulted in student-managed labs (CUBE & THINK lab) & over 300 research publications.
- **ANDY** – A student-run in-campus company; honing entrepreneurship skills
- **SPIE USA STUDENT CHAPTER @ ANDC:** supports interdisciplinary scientific endeavour in the field of optics and participation of UG students at National/ International Conferences.
- **BUSINESS INCUBATOR AND IEDC:** A scheme funded by MSME, GOI encourages students to become job-creators and innovators.
- **THEATRE IN EDUCATION: ECPDT** – We implement UNICEF's vision for life-skills using theatre as a medium. Experts attached to NSD. Used as a route for personality development and sensitization
- **HANDS-ON TRAINING WITH STATE-OF-THE-ART INSTRUMENTS IN LABORATORIES:** taking informed decisions about future career in research
- **SUPPORT FOR FOSS AND OPEN INITIATIVES:** Professes, propagates and practices use of open educational materials and open source software

### Exclusive Student-centric Initiatives

- **NSS:** An active unit with thrust on fitness, creating awareness on HIV, AIDS, Thalassemia, disaster management and arranging camps for blood donation, national integration and social harmony. Organisation of Diwali Mela (Sahyog) to support differently-abled and working with internationally recognized NGOs (Goonj etc) are regular activities.
- **ELITE:** Student fellowship for project and research activities during summer vacations.
- **EXPLORE:** Funded solely by the college the scheme allows students to undertake excursions, educational tours or field trips.
- **SAKSHAM:** An inclusive scheme providing economic aid to needy and deserving students to promote holistic education.
- **SASHAKTI:** Society for women empowerment and alleviating gender-based discrimination.
- **EOC:** Provides guidance and counselling to differently-abled students to enable life with dignity and respect in academic, social and other matters



### Best Teacher Awardees (Delhi Govt.)



Dr. SARITA KUMAR

Dr. SUNITA HOODA

Dr. AMIT GARG



Dr. USMI BAJPAI



Dr. GAGAN DHAWAN

## **NAAC RECOGNITION AND GRADE**

The college has been accredited by the National Accreditation Council and has been awarded NAAC grade A. This has not only added stars to the colleges repo but also facilitated its rise from 8 to 2 position in the best Science Colleges of University of Delhi.

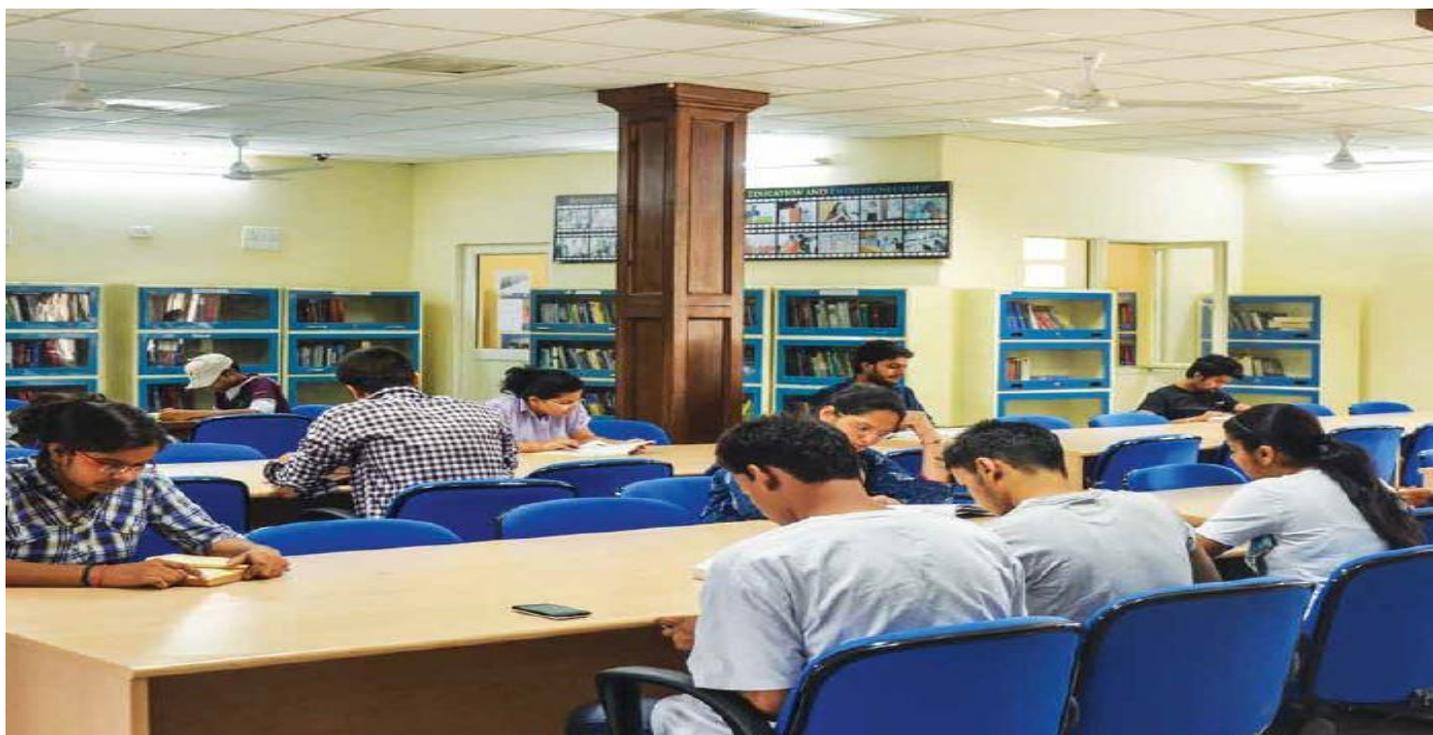
### **14<sup>th</sup> Meeting of the Standing Committee (29<sup>th</sup> March 2016) List of Institutions Recommended For Accreditation by NAAC**

#### **1<sup>st</sup> Cycle**

<b>Sl. No.</b>	<b>NAME OF THE INSTITUTION</b>	<b>STATE</b>	<b>CGPA</b>	<b>GRADE</b>
1.	Government Degree College, Amadalavalasa, Srikakulam - 532185	Andhra Pradesh	2.02	B
2.	Siddartha Institute of Science and Technology, Chittoor - 517583	Andhra Pradesh	3.03	A
3.	Vasireddy Venkatadri Institute of Technology, Guntur - 522508	Andhra Pradesh	3.09	A
4.	National Institute of Technology, Itanagar - 791112	Arunachal Pradesh	2.34	B
5.	Acharya Narendra Dev College, Kalkaji - 110019	Delhi	3.31	A
6.	Starex Institute of Education, Gurgaon - 122413	Haryana	2.36	B
7.	BIRDS Bachelor of Social Work College, Belgaum - 591224	Karnataka	2.08	B
8.	Government First Grade College, Channarayapatna, Hassan - 573116	Karnataka	2.51	B
9.	Government First Grade College, Kudugarhally, Sakleshpur, Hassan - 573134	Karnataka	2.14	B
10.	New Horizon College of Engineering, Bangalore - 560103	Karnataka	3.23	A
11.	PES College of Pharmacy, Bangalore - 560050	Karnataka	2.76	B
12.	T. John Institute of Management and Science, Bangalore - 560083	Karnataka	1.52	C
13.	Government College, Kariavattom, Thiruvananthapuram - 695581	Kerala	2.47	B
14.	Kannur University, Kannur - 670002	Kerala	2.19	B

# ***INFRASTRUCTURE***

As of 2016, there are 30 classrooms, all of which are equipped with projectors and screens to aid in presentations and teachings. The college also has 27 labs. These labs are not only used to teach the students, but there are dedicated labs for carrying out various projects funded by or in collaboration with various organisations, such as HBCSE, TIFR, DST, SPIE etc. The college also organises various talks regarding various topics in fields such as genetics, computer science, tax, business etc. by prominent personalities such as Mr. Sheikh Faraz Osmani and Mr. Richard Stallman, housed in the college's Conference or Seminar room, with seating capacities of 120 and 200, respectively. The college also houses a robust library, which has over 26,000 books, ranging from research papers and journal to course textbooks to novels. The library is also connected online with the DU Library System.





## *Resources*

- *Over 300 computers*
- *24x7 100 mbps wifi*
- *Well-equipped rooms with projectors and screens*
- *Conference rooms*
- *Seminar halls*
- *Fields*
- *Well maintained laboratories*
- *Latest technology equipment*
- *Connected with the national knowledge network*
- *Entrepreneurship lab and Society*

## **CULTURE AND PROJECTS**

Acharya Narendra Dev College along with Wikimedia India and Centre for Internet and Society have been recognized as Affiliates of Creative Commons in India. On November 12, 2013, the Union Minister, Dr Shashi Tharoor launched Creative Commons India in New Delhi for Human Resources Development.

The college believes in promoting open-source software and open education resources. It is the first college in the University of Delhi to migrate to Linux. Having 80 computers in the Web Centre and all the computer labs run on Linux OS. Use of proprietary software is kept minimal and only when required by the course material.

The principal, Savithri Singh, is an elected member of the International Community Council of the Wikieducator and its Vice Chair.

Acharya Narendra Dev College promotes research by students and faculty. One of these research projects is the Innovation and Entrepreneurship Development Cell.<sup>[3]</sup> The cell also coordinates six projects aimed at promoting innovation and entrepreneurship. To promote research by students the college offers ELITE (Education in a Lively Innovative Training Environment) scholarships to 200 students for summer training and projects.

The Society of Photo-Optical Instrumentation Engineers (SPIE),<sup>[4]</sup> an international society advancing an interdisciplinary approach to the science and application of light, has formally approved "University of Delhi at Acharya Narendra Dev College SPIE Student Chapter."<sup>[5]</sup> The college SPIE chapter<sup>[6]</sup> is highly prominent on the International scale and gets annual funding for members to attend International conferences most notably SPIE Optics+Photonics in San Diego, USA and SPIE Photonics West in San Francisco, USA.

Acharya Narendre Dev College also offers extra-curricular activities for students. Student-run societies include ones on, sports, social outreach, technology, robotics and others.

## The Bachelor of Technology courses

The curriculum of the B.Tech program can be divided into two facets: First year and the remaining three years.

The first year focuses on the basics of engineering as well as personal and inter-personal growth with focus on real world abilities such as teamwork, speaking and social skills, confidence et al. This was achieved through the uniquely designed Foundation Courses, where debates, group discussions, presentations, workshops etc. were used to achieve these goals.

<b>SEMESTER WISE</b>		
<b>YEAR 1</b>	<b>YEAR 2 AND 3</b>	<b>YEAR 4</b>
<b>FOUNDATION COURSE</b>	<b>DISCIPLINE COURSE</b>	<b>DISCIPLINE COURSE</b>
<b>FOUNDATION COURSE</b>	<b>DISCIPLINE COURSE</b>	<b>DISCIPLINE COURSE</b>
<b>DISCIPLINE COURSE</b>	<b>DISCIPLINE COURSE</b>	<b>DISCIPLINE COURSE</b>
<b>DISCIPLINE COURSE</b>	<b>DISCIPLINE COURSE</b>	<b>PROJECT</b>

Second year onwards the focus is shifted from character growth to imparting proper industry based skills to the students so they are proficient enough to face the needs of the industry with various subjects such as Artificial intelligence, Data Security, Operating Systems, Communications etc. in the core subjects and Strategic Human Resource Management, Operational Research in the Allied Courses.

The combination of the two allows the students to grasp all opportunities that come their way.

The broad objectives of DC-I course of 4-Year Undergraduate Programme in Computer Science are to provide necessary theoretical background and practical experience to the Undergraduate Computer Science students. In order to fulfil the requirements of education in Computer Science, there are main DC-I papers and two Research and Project oriented papers. Out of main papers, there are two papers of Mathematics, namely “Linear Algebra for Computer Science” and “Probability Theory and Statistical Computing”. These papers are indispensable for the Computer Science students to enhance their Mathematical abilities in terms of computational skills and performance analysis. The remaining main papers are core Computer Science papers which touch all gamut of computer Science and Engineering. No Computer Science Programme goes successful without adequate hands on practical components. Accordingly, depending on the course requirements, there are requisite numbers of practical hours. Keeping in mind, the practical requirements of papers and also that the work-loads of students do not increase beyond their bearable limits, the practical periods for DC-I papers are kept zero/two/ four periods per student per week.

To give impetus to research in Computer Science and to develop the research skills of the students, two papers relating to Research work have been included in the Fourth year of the curriculum.

In the “Research Methodology and Project Work” paper of seventh semester, the students shall be taught about the necessary theoretical aspects of carrying out research along with a minor project work to apply the afore said research principles in practice. In the “Research” paper of eighth semester, the students shall carry out a major project to apply the knowledge gained through the DC-I papers. The DC-I course in Computer Science aims to develop core competence in Computer Science and application and prepare the students to carry out application development in almost every field of Computer Science and Engineering as well as in inter-disciplinary areas. The students shall also learn how to carry research.

The courses in DC-I have been ordered semester wise not only based on pre-requisites but On exit after four years, a student will become a professional in IT and will become fit for all types of jobs in IT field like software Developer, Analyst, Manager and Researcher.

### *Add onns of B-tech CSE*

- *Open source based [linux, ubuntu]*
- *Android application development*
- *Web technology*
- *Industrial Project*

### *Add onns of B-tech electronics*

- *Robotics*
- *Knowledge of programming*
- *Embedded systems*
- *Material Science lab*

## FACULTY



## FACULTY MEMBERS

A good teacher can inspire hope, ignite the imagination,  
and instill a love of learning

The faculty of ANDC is highly skilled and highly reputed in the university, with 115 faculty members, most of whom hold a PhD in their respective fields as well as having won various awards for their teaching skills and methodologies.

Besides getting '**Meritorious Teachers Award**', for last FIVE years, the Faculty of the college had a watershed moment for having rendered yeoman service to the society. No less than three faculty members, **Dr. Sarita Kumar, and Dr. Seema Makhija from Department of Zoology** and **Dr. M. S. Rajeswari** from Department of Botany brought pride to college. They were felicitated by University of Delhi as Distinguished Teacher on Teachers' Day by Former President Dr. A. P. J. Abdul Kalam. The event that attracted extensive press coverage and was the talk of the town, helped develop a sense of pride amongst students and colleagues of the college

.

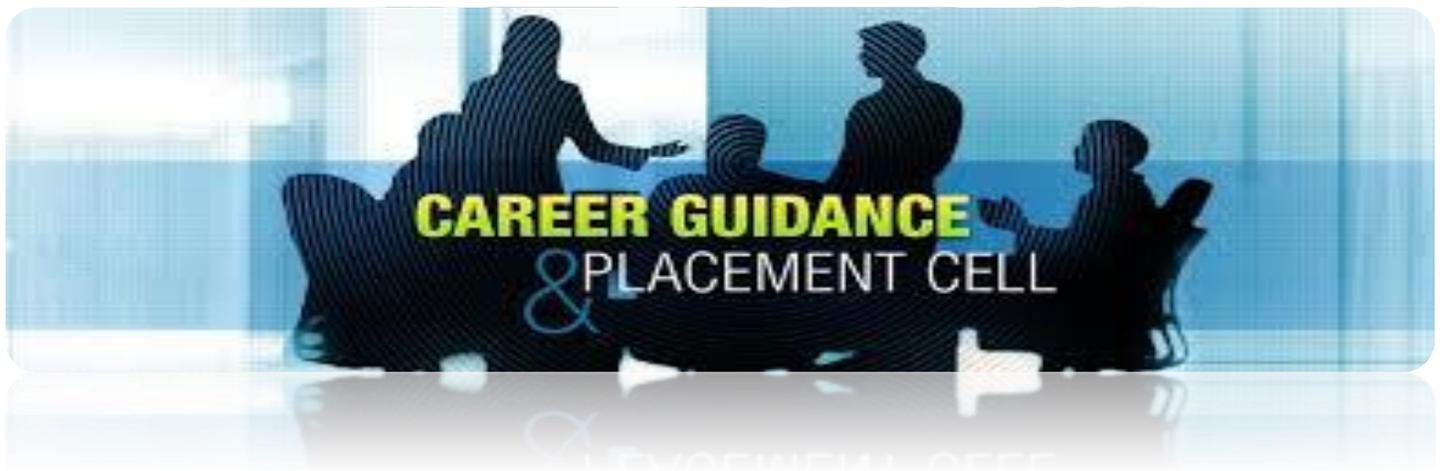
The college has also been running a number of Research Projects funded by various agencies viz. University Grants Commission, Department of Science and Technology, Department of Biotechnology, Ministry of Environment and Forests, Council of Scientific and Industrial Research and University of Delhi, of the tune of Rs. 4 crores. Many of the Research Projects have been successfully completed.

Dr. Savithri Singh, Principal of the college while striving to build an institution par excellence continues to contribute substantially in her role as an educationalist and a FOSS and OER evangelist. As the Vice-Chair and elected member of the International WikiEducator Community Council, she is instrumental in using the wiki platform to propagate Open Educational Resources (OERs) organizing a number of workshops on OERs and Wikieducator throughout the year both in college, in the south campus, at NCERT and some schools.

Her efforts in this pursuit took her to Dhaka, Bangladesh where she conducted an International Workshop on 'Creating local content using WikiEducator and EasyNow' from 12 -15 December 2009.

Quality is a major issue whenever content is created for mass dissemination; this is also true of e-content. Commonwealth Educational Media Centre for Asia (CEMCA) of the Commonwealth of Learning set up a Core team consisting of experts from India and Malaysia for developing quality parameters for multimedia of which Dr Savithri Singh was selected a member. The first formal version of the document titled 'Quality Assurance in Multimedia Learning Materials' was presented at the meeting of the Core Group on Quality Assurance of Multimedia Learning Materials (QAMLM) at the India International Center, New Delhi on 2 April 2009.

## **Career counselling and Placement Cell**



The College has an active Career Counselling & Placement Cell (CC & PC) that understands the career objectives of students keeping in mind the current trends in corporate world. The scope of the Career Counselling & Placement Cell extends from coordinating job-hiring activities to organizing interactive career counselling seminars. Many reputed companies such as HCL ,TCS, Convergys, Tech Mahindra, Wipro, Genpact, IBM, HDFC, Ernst & Young, Indigo Airlines, Advent Medical Technologies, along with other companies have visited the college for the recruitment in the previous years.

The college provides all necessary infrastructural facilities required for the placement drive such as Seminar room for pre-placement talk, group discussion and interview; Lab equipped with computers enabled with Wi-Fi internet connection. Notices regarding placement activities are regularly placed on the wooden and digital Notice Boards of the College.



**We Place where you should be**



The Career Counselling & Placement Cell provides registration forms, which every year the final year student fills to avail the placement services of the cell. The Career Counselling & Placement Cell is truly a platform “of the students, by the students and for the students”. Every year, the Placement Committee has one student coordinator from each course. One of them is selected as the main student placement coordinator. The names, contact number and email ids of all these student coordinators are accessible to the final year students who register themselves with the Cell. These student coordinators are well versed about the needs of the students and act as connecting link between the Career Counselling & Placement Cell and eligible students of their course. Under the care of a dedicated Placement Officer the Career Counselling & Placement Cell of the college has emerged as a professional entity establishing linkages with prospective employers, industry associations and other such placements cells of institutes in Delhi



## List of visiting companies



## **Contact Information**

**Placement officer-----Mr Sanjay Wohra**

**Contact-----09868229322**

**Mail-----placement-andc@andc.du.ac.in**

**Placement Convenor-----Dr Harita Ahuja**

**Contact-----9818511338**

**Mail-----haritaahuja@andc.du.ac.in**

**Placement co-ordinator-----Ravi Kant Pandey**

**Contact-----9711728386**

**Mail-----placement.andc.du@gmail.com**

**Department-----Computer Science Engineering**

**Co-ordinator-----Anuj Gupta**

**Contact-----8447960032**

**Mail-----placement.andc.du@gmail.com**

**Department-----Electronical Engineering**