

Guidelines for the Creation of the
Internal Quality Assurance Cell (IQAC)
and Submission of Annual Quality Assurance
Report (AQAR) in Accredited Institutions
(Revised in October 2013)



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

Part – A

1. Details of the Institution

1.1 Name of the Institution

Dronacharya College of Engineering

1.2 Address Line 1

Village - Khentawas

Address Line 2

Farrukhnagar

City/Town

Gurgaon

State

Haryana

Pin Code

123506

Institution e-mail address

principal@ggnindia.dronacharya.info

Contact Nos.

0124-2375502/3/4

Name of the Head of the Institution:

Prof (Dr.) B. M. K. Prasad

Tel. No. with STD Code:

0124-2275327

Mobile:

9910380104

Name of the IQAC Co-ordinator:

Prof (Dr.) Sri Krishan Yadav

Mobile:

9910236363

IQAC e-mail address:

deanacademics@ggnindia.dronacharya.info

1.3 NAAC Track ID

12459

1.4 Website address:

www.dronacharya.info

Web-link of the AQAR:

www.ggnindia.dronacharya.info/AQAR2015

1.5 Accreditation Details

| Sl. No. | Cycle | Grade | CGPA | Year of Accreditation | Validity Period |
|---------|-----------------------|-------|------|-----------------------|-----------------|
| 1 | 1 st Cycle | B | 07 | 2005 | 2010 |
| 2 | 2 nd Cycle | B | 2.92 | 2012 | 2017 |
| 3 | 3 rd Cycle | | | | |
| 4 | 4 th Cycle | | | | |

1.6 Date of Establishment of IQAC :

DD/MM/YYYY

05/12/2005

1.7 AQAR for the year (for example 2010-11)

2014-15

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011).

- i. AQAR 2013-14 _____ (12/08/2014)
ii. AQAR 2012-13 _____ (18/11/2013)

1.9 Institutional Status

University State Central Deemed Private N.A.

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No **Approved by AICTE**

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.10 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.11 Name of the Affiliating University (for the Colleges)

Maharishi Dayanand University,
Rohtak (Haryana)

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

N.A.

Autonomy by State/Central Govt. / University

| | | | |
|--|----------------------|---------------------|----------------------|
| University with Potential for Excellence | <input type="text"/> | UGC-CPE | <input type="text"/> |
| DST Star Scheme | <input type="text"/> | UGC-CE | <input type="text"/> |
| UGC-Special Assistance Programme | <input type="text"/> | DST-FIST | <input type="text"/> |
| UGC-Innovative PG programmes | <input type="text"/> | Any other (Specify) | <input type="text"/> |
| UGC-COP Programmes | <input type="text"/> | | |

2. IQAC Composition and Activities

| | |
|---|---------------------------------|
| 2.1 No. of Teachers | <input type="text" value="6"/> |
| 2.2 No. of Administrative/Technical staff | <input type="text" value="4"/> |
| 2.3 No. of students | <input type="text" value="2"/> |
| 2.4 No. of Management representatives | <input type="text" value="1"/> |
| 2.5 No. of Alumni | <input type="text" value="2"/> |
| 2.6 No. of any other stakeholder and community representatives | <input type="text" value="2"/> |
| 2.7 No. of Employers/ Industrialists | <input type="text" value="2"/> |
| 2.8 No. of other External Experts | <input type="text" value="2"/> |
| 2.9 Total No. of members | <input type="text" value="21"/> |
| 2.10 No. of IQAC meetings held | <input type="text" value="2"/> |

2.11 No. of meetings with various stakeholders:

| | No. | Faculty |
|--------------------|-----|---------|
| Non-Teaching Staff | 6 | 2 |
| Students | 1 | |
| Alumni | 2 | |
| Others | Nil | |

2.12 Has IQAC received any funding from UGC during the year?

Yes No ✓

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

Computer Networking, Environmental Studies, Introduction to Design Algorithms, Advanced Developments in Mechanical Engineering, Digital Image Processing, Animation and Computer Vision, Open Source Technologies, Biomedical Image Analysis & Processing, Cloud Computing, Robotics, Social Welfare, Latest Technologies, Virtual Labs, STADD PRO V8i, PCB Designing Using Eagle Cadsoft, 4G/LTE Networks-Opportunities and Challenges, Innovative Methods of Research, Automobile Engine Mechanics, Recent Trends and Technologies, Ethical Hacking, Wireless Sensor Network, Recent Digital Marketing, C++ and Java, JOOMLA, Competitive Learning and Programming, IEEE Day, Google Summer Blaze, Advances in Embedded Electronics and Communication Technologies, Industrial Automation using PLC & SCADA, Innovative Ideas, Wireless Communication, Labview, Robotics, Golden Search - Website Development & Digital Marketing, Solid Works, Microsoft Excel, Intel Easy Steps, AdWords, AdSense, Admob and Analytics, Bentley Academic Bundle, Language Skills in English, AndiPop 5.0, GOOGLE, Circuit Designing and Web Designing, Android Technology, Corporate Academic Collaboration, Personality Development, Yoga, Spoken Tutorial, Swachh Bharat Mission, Google Ride, Good Governance Day, Swachha Bharat Swasth Bharat, Golden Tech Bridge, Mobi-Robotics, Entrepreneurship Empowerment, INFORMATICA: Data Integration Tool, Pedagogy for effective use of ICT in Engineering Education, Technological Developments in Electronics Engineering, Problems and Prospects of Inter Linking of Rivers In The Country, Steps 2 Research, PHP and MySQL, Securing Networks through Firewalls, VPN and Intrusion Prevention System

2.14 Significant Activities and contributions made by IQAC

- (a) Organized All India Council for Technical Education, New Delhi sponsored Faculty Development Programme on “Advanced Developments in Mechanical Engineering”.
- (b) Inauguration of Microsoft Innovation Centre
- (c) E-yantra Lab set up in the college
- (d) College has become remote centre of QEEE
- (e) Conducted English proficiency assessment by iTEP (Ministry of HRD, Govt. of India accredited English certification)
- (f) Many students selected as Microsoft Student Program (MSP) that provides better placement opportunity to students.
- (g) College organized a two days technical festival DRONTECH-2K15 with the objective to provide platform for the students to highlight their talent with a competitive spirit.
- (h) College is in constant touch with alumni. Every year in last week of December, college organizes Alumni Meet.
- (i) Organized national seminar on “Problems and Prospects Of Inter Linking of Rivers In The Country” PPILRC-2014 under seminar symposia scheme of DST, Govt. of India
- (j) Organized two National Conferences on Biomedical Image Analysis & Processing (BIAP-2015) and “Technological Developments in Electronics Engineering” (NCTDEE-15) under seminar symposia scheme of DST, Govt. of India.
- (k) Organized National Seminar on 'Steps 2 Research', is through AView in association with Amal Jyothi College of Engineering, Kerala
- (l) Conducted Training Program by Best Koki Automotives Pvt. Ltd
- (m) Conducted Training Programme by Bosch Limited.
- (n) Students are encouraged to apply their innovative projects for technical competitions.
- (o) Strengthening the campus placements process to provide job opportunities for the students
- (p) Regular interaction with class coordinators of every department for maintaining and sustaining quality education.
- (q) Upgradation of Lab equipment's to meet with the latest technology across the departments.
- (r) Organized industrial visits for students to give practical exposure.
- (s) Development Programmes for Staff, Faculty and Students

- (t) All clubs are functionally active across all departments.
- (u) Supplementary encouragement is given to students to participate in events like Sports, NSS and other activities.

2.15 Plan of Action by IQAC / Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

| <u>Plan of action</u> | <u>Achievements</u> |
|--|---|
| <p>1. Academic:-</p> <ul style="list-style-type: none"> a) Sustain the improvements achieved till date and make further improvements b) Train the trainer concept will be continued. c) More industrial visits for students will be organized. d) Encourage faculty to go for outside seminars/workshops/entrepreneurship program. e) Encourage faculty member to publish papers. f) MOU with Industries. | <ul style="list-style-type: none"> (a) Result of this year is better than the result of previous years (b) Many FDPs are organized during this year. (c) Industrial visits organized in companies like NPL, Whirlpool Ltd, Hero Motocorp Ltd., AppMob Technologies, Centre of E-Governance, and many more.... (d) Faculty members participated in conferences / workshops outside college. (e) Many faculty members have published papers in international journals (f) MOU with 41 Industries at National & International Level. |
| <p>1. Development/Improvement in Students Performance:-</p> <ul style="list-style-type: none"> a) Counselling for weak students. b) Extra efforts to improve Results. c) Close mentoring of final year students. d) Encouraging Participation in Seminars. e) Publish in research Journal. f) Students are encouraged to do certification courses g) Active student participation in EDC h) Increase participation of student creative activities/ clubs. | <ul style="list-style-type: none"> a) Overall college pass percentage was better than University pass percentage b) Placement has been increased from last year c) More than 1000 papers published & presented by the students. d) Online Certification were done by students e) Workshops conducted by EDC cell f) Various activities are organized by various clubs. |
| <p>2. Facilities:-</p> <ul style="list-style-type: none"> - New lab set up - Microsoft Innovation Centre - College to become remote centre of QEEE. - Purchase Lab equipment's | <ul style="list-style-type: none"> - E-yantra Lab set up in the college - Microsoft Innovation Centre was inaugurated in the college. - College has become remote centre of QEEE. - Latest equipment's are purchased for various labs. |

| | |
|---|----------------------------|
| 3. More Class rooms/ Tutorial Rooms shall be constructed. | New Class rooms are built. |
|---|----------------------------|

2.15 Whether the AQAR was placed in statutory body

Management Syndicate Any other body

Provide the details of the action taken

| |
|--|
| AQAR was discussed in Academic Council meeting and the suggestions given by the members were incorporated. |
|--|

Part – B

Criterion – I

4. Curricular Aspects

4.1 Details about Academic Programmes

| Level of the Programme | Number of existing Programmes | Number of programmes added during the year | Number of self-financing programmes | Number of value added / Career Oriented programmes |
|------------------------|-------------------------------|--|-------------------------------------|--|
| PhD | | | | |
| PG | 04 | 00 | 04 | |
| UG | 08 | 00 | 08 | |
| PG Diploma | | | | |
| Advanced Diploma. | | | | |
| Diploma | | | | |
| Certificate | | | | 3 |
| Others | | | | 6 |
| Total | 12 | 0 | 12 | 09 |

| | | | | |
|-------------------|--|--|--|--|
| Interdisciplinary | | | | |
| Innovative | | | | |

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
(ii) Pattern of programmes:

| Pattern | Number of programmes |
|-----------|----------------------|
| Semester | 08 UG, 04 PG |
| Trimester | |
| Annual | |

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

***Please provide an analysis of the feedback in the Annexure**

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Syllabi updating is done by the academic council of M. D. University Rohtak. No amendments in syllabus was done by M.D. University Rohtak for this academic session

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

| Total | Asst. Professors | Associate Professors | Professors | Others |
|-------|------------------|----------------------|------------|--------|
| 224 | 152 | 50 | 20 | 2 |

2.2 No. of permanent faculty with Ph.D.

39

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

| Asst. Professors | | Associate Professors | | Professors | | Others | | Total | |
|------------------|----|----------------------|----|------------|---|--------|---|-------|----|
| R | V | R | V | R | V | R | V | R | V |
| 95 | 52 | 15 | 14 | 3 | 3 | 0 | 0 | 113 | 69 |

2.4 No. of Guest and Visiting faculty and Temporary faculty

| | | |
|----|----|-----|
| 00 | 00 | Nil |
|----|----|-----|

2.5 Faculty participation in conferences and symposia:

| No. of Faculty | International level | National level | State level |
|--------------------|---------------------|----------------|-------------|
| Attended Seminars/ | 11 | 198 | 03 |
| Presented papers | 15 | 37 | 04 |
| Resource Persons | 06 | 07 | 01 |

2.6 Innovative processes adopted by the institution in Teaching and Learning:

Virtual Labs, Spoken Tutorial for first year students, International Level Certification courses for 3rd & 4th Year students, On line assignments, Use of NPTEL videos in teaching

2.7 Total No. of actual teaching days during this academic year

208

2.8 Examination/ Evaluation Reforms initiated by the Institution
(for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Double evaluation, on- line assignments

2.9 No. of faculty members involved in curriculum Restructuring /revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

| | | |
|---|---|---|
| 2 | 2 | 2 |
|---|---|---|

2.10 Average percentage of attendance of students

79 %

2.11 Course/Programme wise Distribution of pass percentage:

| Title of the Programme | Total no. of students appeared | Division | | | | |
|------------------------|--------------------------------|---------------|---------|--------|-------|---------|
| | | Distinction % | I % | II % | III % | Pass % |
| B. Tech. | 465 | 14.83 % | 38.06 % | 3.87 % | NIL | 56.77 % |
| | | | | | | |
| | | | | | | |

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

Frequent meetings with the academic committee of the college and suggests changes in the teaching & learning processes and developed a mechanism in which the Teaching & Learning process is monitored closely. The progress is evaluated by comparing the various parameters

2.13 Initiatives undertaken towards faculty development

| Faculty / Staff Development Programmes | Number of faculty benefitted |
|--|------------------------------|
| Refresher courses | 122 |
| UGC – Faculty Improvement Programme | 03 |
| HRD programmes | 206 |
| Orientation programmes | 08 |
| Faculty exchange programme | Nil |
| Staff training conducted by the university | 02 |
| Staff training conducted by other institutions | 44 |
| Summer / Winter schools, Workshops, etc. | 36 |
| Others(AICTE Sponsored FDP) | 55 |

2.14 Details of Administrative and Technical staff

| Category | Number of Permanent Employees | Number of Vacant Positions | Number of permanent positions filled during the Year | Number of positions filled temporarily |
|----------------------|-------------------------------|----------------------------|--|--|
| Administrative Staff | 90 | 8 | 6 | 2 |
| Technical Staff | 38 | 5 | 5 | Nil |

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- College is also publishing its bi-annual research Journal “Dronacharya Research Journal”.
- Faculty provided with On – Duty, Registration fee refunds for participating in conferences, seminars & FDPs
- Experts from reputed institutions are invited for R & D related interactions.
- Students are encouraged to file patents & copyrights
- Students are encouraged to write research papers for various International Journals.
- Organized National Seminar on “Problems and Prospects Of Inter Linking Of Rivers In The Country” PPILRC-2014 under seminar symposia scheme of DST, Govt. of India
- Organized National Conference on “Biomedical Image Analysis & Processing (BIAP-2015)” under seminar symposia scheme of DST, Govt. of India.
- Organized National Conference on “Technological Developments in Electronics Engineering” (NCTDEE-15) under seminar symposia scheme of DST, Govt. of India.
- Conducted National Seminar on “Steps 2 Research” through A -View in association with Amal Jyothi College of Engineering, Kerala.
- Two Faculty members attended a two-month Summer Faculty Research Fellow Program - 2015 at IIT Delhi.
- Four Faculty members attended a five-day workshop on “Design Thinking” organized at IIT Kanpur.
- IEEE student branch organized “TECHFIESTA” - a technical event. Students from every branch took part in the event very enthusiastically.
- One faculty member attended the Faculty Development Programme on the “Recent Advances In Nanoscience And Nanotechnology” sponsored by All India Council for Technical Education, New Delhi at Amal Jyothi College Of Engineering, Kanirappallay, Kerala .

- Six students attended an event: "5 Critical ways to develop Product Innovation mindset" at Royal Orchid Central Bluestone. The speaker at the event was Mr. Pinkesh Shah , Ex. Global Vice President, McAfee R&C BU.
- Two faculty members attended a two- day workshop on 'Emerging Research Trends in Engineering 'sponsored by CSIR, India and organized by 'IET, Ahmedabad University' in association with IEEE Gujarat Section at 'Ahmedabad Management Association'.
- Twenty-nine students attended "The 21st IETF 2015 (International Engineering & Technology Fair) organized by Confederation of Indian Industry (CII) at Pragati Maidan. The motive of the exhibition was India-Japan Partnership in the various fields, such as Environment, Energy, Automotive, Rail, Infrastructure and others.
- Two students attended the lecture on "Atomic Clocks - How do they Work and Why do we need them" organized by The IEEE Communications Society (ComSoc), Delhi Chapter at University of Delhi, New Delhi.
- One student attended one day National Conference on "Recent Trends in Communication and Technology (RTCT-2015)" in collaboration with IEEE student branch & IMS/EMBS (Delhi) .
- Two faculty members attended the International Conference on "Electron Microscopy and XXXV Annual Meeting of the Electron Microscope Society of India(EMSI-2014)". The conference was jointly organized by University of Delhi and Electron Microscope Society of India.
- One faculty member attended a lecture session on "Graph Theoretic approach to Topology Control in Wireless Sensor Networks" at Department of Mathematics, IIT Delhi.
- Two faculty members attended a one-day episode "TechHR 14: A Conference & Exhibition" at The Leela Ambience, on the theme of "Idea for the future" conducted by People Matters.
- Two faculty members attended a seminar on "Recent Innovations in Metallurgical Industries" organized by Micro, Small and Medium Industries (MSME) Technology Development Centre, Agra in collaboration with CSIR - National Metallurgical Lab, Jamshedpur at United Schools Organizations Of India (USO House) Delhi.
- One faculty member along with two students attended a talk on "Innovation" organized by IEEE Delhi Section PES and AUSBI.

- Three faculty members attended a seminar on “Advancing your future on the Cloud” conducted by the “IBM Cloud Innovation Forum” at The Leela Ambience, Gurgaon.
- Two faculty members attended a one-day PHD (Progress Harmony Development) Innovation Summit 2014 on “Enhancing Innovative Capacities of MSME (Micro, Small & Medium Enterprise)”. It was organized by PHD Chamber, New Delhi in Association with MOFPI (Ministry of Food Processing Industries, Government of India).
- One faculty member along with two students attended an International Conference on “Emerging Trends in Science and Cutting Edge Technology (ICETSCET)” at YMCA, Connaught place, New Delhi.
- One faculty member attended two day workshop on “Interdisciplinary Emerging and Converging Research and Academia in Semiconductor Technologies” organized by IIT Mandi in association with TU9, University of Stuttgart, Germany.
- Two faculty members along with twenty-five students attended OPEN HOUSE 2015 at Indian Institute of Technology (IIT-Delhi). Collection of innovative research and product development projects were displayed in its annual open house, 2015. The platform of Open House is venture to bring in education, research, innovation and competent designs into the monarchy of market and slake the desire of young minds to know more about technology.
- One faculty member attended an International Conference on “Science, Technology and Innovation Policy” was jointly organized by Zaheer Science Foundation and UNESCO, New Delhi at Indian National Science Academy (INSA), New Delhi.
- One faculty member attended the “Distinguished Lecture Colloquia” organized by IEEE SSCS Delhi Chapter at STMicroelectronics, Greater Noida.
- Five students participated in the IUCEE-SPEED workshop on “Engineering Education without Borders” held at Dronacharya Group of Institutions, Greater Noida.
- One faculty member along with seven students attended the workshop titled “How to publish a Technical Paper with IEEE” conducted by IEEE Delhi Chapter at IIT-Delhi.
- Organized a one-day extension lecture on “Art of Research Paper Writing and Publication”. The lecture was delivered by Dr. Sanjay Sen Gupta, Principal Scientist Journal of Scientific & Industrial Research Periodical Division NISCAIR, New Delhi.
- One faculty member attended an event “Adobe Creative Cloud 2014” organized by Adobe at Eros Hotel, Nehru Place, New Delhi.

- One faculty member was the speaker at 2nd National workshop on Citation Analysis, Impact factor, Patent and Copyrights for Maximizing Research Impact, organized by PHD House, New Delhi.
- Two faculty members attended a “Workshop on Cognitive Radio using USRP” at Indian School of Mines, Dhanbad. The workshop was organized with an objective to introduce recent research aspects in the field of cognitive radio.
- One faculty member attended a seminar at Hans Hotel, Connaught Place, New Delhi on “RF and wireless Communications”. The objective of the seminar is to discuss how latest technologies can be used for enhancing student learning and research in the fields of RF and Wireless Communications.
- Two faculty members attended a seminar on “Design and Implement Signal Processing, Communication and Computer Vision Systems Using MATLAB and Simulink”, organized by The MathWorks India Private Limited at Le Meridian, New Delhi.
- The Director’s Meet program was attended by Professor .A program on Creativity and Innovation was initiated by Prof. S.K. Atreya, Chief Design Engineer (S.G.) IDD Centre, IIT Delhi .
- One faculty member attended IETE's 47th World Telecommunication and Information Society Day celebrations on the theme "Telecommunications and ICTs: drivers of Innovation" at IETE Delton Hall, New Delhi.
- One faculty member attended & delivered an invited talk in the Indian Science Congress Association [ISCA] at University of Mumbai, Maharashtra.
- One faculty member was invited to deliver keynote talk in “The International Conference on Advances in Computer Science, Electronics and Communication Technologies (ACSECT 2015)”, held at Bangkok, Thailand.
- One faculty member was invited to chair a technical session in the 3rd International Conference on “Parallel, Distributed and Grid Computing (PDGC-2014)” organized at Jaypee University of Information Technology, Wagnaghat, Solan, Himachal Pradesh.
- One faculty member attended an International Conference in Bangkok, Thailand as a Conference Secretary. He delivered the inaugural speech.
- One faculty member was invited as Chief Guest at the International Conference on Recent Innovations In Science, Engineering And Management (ICRISEM-2015) at YMCA, New Delhi.

- Two faculty members attended a one day Conference on “Manufacturing conducted by CII (Confederation of Indian Industry)” at The Leela, Ambience, Gurgaon.
- One faculty member attended the talk on “Technology Needs for Future Human Space Missions” by Dr. Kumar Krishen , organized by IEEE Delhi Section Chapter, in association with CSI, IETE and ISTE Delhi.
- Four faculty members attended a technical talk on “New Technologies in Solar Photo-Voltaic and Software Applications”, organized by CSI Delhi Chapter.
- One faculty member attended IEEE Lecture on “History of development of Microelectronics in India” at IIT Delhi organized by Department of Electrical Engineering, IIT Delhi in association with IEEE CAS-CS Delhi section.
- One faculty member along with three students attended the “2nd R. K. Vir Memorial Lecture (Theme: Solar Energy: opportunities in Rail sector)” at Engineers Bhawan, New Delhi .The event was organized by Institution of Railway Electrical Engineers (IREE), The Institution of Engineering and Technology (IET) Delhi Local Network and Institution of Electrical & Electronics Engineers (IEEE).
- Five students attended “Microsoft Imagine Cup Boot Camp” organized at NGF College of Engineering and Technology. It witnessed speakers from Microsoft along with participants with innovative ideas from different colleges of NCR.

3.2 Details regarding major projects

| | Completed | Ongoing | Sanctioned | Submitted |
|---------------------|-----------|---------|------------|-----------|
| Number | 1 | | | |
| Outlay in Rs. Lakhs | 335,717/- | | | |

3.3 Details regarding minor projects

| | Completed | Ongoing | Sanctioned | Submitted |
|---------------------|-----------|---------|------------|-----------|
| Number | | | 16 | |
| Outlay in Rs. Lakhs | | | 1757706/- | |

3.4 Details on research publications

| | International | National | Others |
|--------------------------|---------------|----------|--------|
| Peer Review Journals | 59 | 06 | |
| Non-Peer Review Journals | 18 | 08 | |
| e-Journals | 66 | 12 | |
| Conference proceedings | 30 | 50 | |

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

| Nature of the Project | Duration Year | Name of the funding Agency | Total grant sanctioned | Received |
|--|---------------|----------------------------|------------------------|-----------|
| Major projects | 2009-2014 | DST | 25 Lacs | 25 Lacs |
| Minor Projects | 2014-15 | MHRD | 1757706/- | 1757706/- |
| Interdisciplinary Projects | | | | |
| Industry sponsored | 2014-15 | IEEE, CDC | 35000/- | 35000/- |
| Projects sponsored by the University/ College | | | | |
| Students research projects (other than compulsory by the University) | | | | |
| Any other(Specify) | | | | |
| Total | | | | |

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from **N.A.**

UGC-SAP

CAS

DST-FIST

DPE

DBT Scheme/funds

3.9 For colleges

Autonor

CPE

DBT Star Scheme

INSPIRE

CE

Any Other (specify)

DST, AICTE,
MHRD, SERB

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

| Level | International | National | State | University | College |
|---------------------|---------------|----------|-------|------------|---------|
| Number | | 4 | 1 | | 3 |
| Sponsoring agencies | | SERB | CSI | | College |

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From Funding agency

From Management of University/College

Total

3.16 No. of patents received this year

| Type of Patent | | Number |
|----------------|---------|--------|
| National | Applied | 12 |
| | Granted | NIL |
| International | Applied | NIL |
| | Granted | NIL |
| Commercialised | Applied | NIL |
| | Granted | NIL |

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

| Total | International | National | State | University | Dist. | College |
|-------|---------------|----------|-------|------------|-------|---------|
| | | 6 | 7 | | | 6 |

3.18 No. of faculty from the Institution
who are Ph. D. Guides
and students registered under them

3

4

3.19 No. of Ph.D. awarded by faculty from the Institution

NA

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones) **NIL**

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level

National level International level

3.22 No. of students participated in NCC events:

University level State level

National level International level

3.23 No. of Awards won in NSS:

| | | | |
|------------------|--------------------------------|---------------------|----------------------|
| University level | <input type="text" value="2"/> | State level | <input type="text"/> |
| National level | <input type="text"/> | International level | <input type="text"/> |

3.24 No. of Awards won in NCC:

Nil

| | | | |
|------------------|----------------------|---------------------|----------------------|
| University level | <input type="text"/> | State level | <input type="text"/> |
| National level | <input type="text"/> | International level | <input type="text"/> |

3.25 No. of Extension activities organized

| | | | | | |
|------------------|--------------------------------|---------------|--------------------------------|-----------|--------------------------------|
| University forum | <input type="text" value="4"/> | College forum | <input type="text" value="9"/> | | |
| NCC | <input type="text" value="0"/> | NSS | <input type="text" value="7"/> | Any other | <input type="text" value="2"/> |

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- National Seminar on “Problems and Prospects of Inter Linking of Rivers In The Country” PPILRC-2014 under seminar symposia scheme of DST, Govt. of India
- National Conference on “Biomedical Image Analysis & Processing (BIAP-2015)” under seminar symposia scheme of DST, Govt. of India.
- National Conference on “Technological Developments in Electronics Engineering” (NCTDEE-15) under seminar symposia scheme of DST, Govt. of India.
- National seminar on 'Steps 2 Research', is organized through A -View in association with Amal Jyothi College of Engineering, Kerala.
- AICTE (All India Council for Technical Education) sponsored Faculty Development Programme organized on “Advanced Developments in Mechanical Engineering”.
- Two-week ISTE workshop on “Computer Networking” organized by IIT Bombay under National Mission on Education through ICT (NMEICT) sponsored by the Ministry of Human Resource Development, Govt. of India.

- Two week ISTE workshop on “Environmental Studies” organized by IIT Bombay under National Mission on Education through ICT (NMEICT) sponsored by the Ministry of Human Resource Development, Govt. of India.
- Two week ISTE workshop on “Introduction to Design Algorithms” organized by IIT Kharagpur under National Mission on Education through ICT (NMEICT) sponsored by the Ministry of Human Resource Development, Govt. of India.
- Conducted Coordinator workshop on “Pedagogy for effective use of ICT in Engineering Education” organized by IIT Bombay through A-View.
- Conducted Short Term Course on PHP and MySQL organized by NITTTR, Chandigarh, MHRD, Govt. of India through ICT.
- Conducted Short Term Course on “Securing Networks through Firewalls, VPN and Intrusion Prevention System” organized by NITTTR, Chandigarh, MHRD, Govt. of India through ICT.
- Conducted ICT based STC on “Open Source Technologies” organized by NITTTR, Chandigarh MHRD, Govt. of India.
- Conducted a one-day workshop on “Cloud Computing” in association with NITTTR Chandigarh through ICT for students.
- Industrial Visits to Centre For E-Governance, Air Force Station, National Physical Laboratory (NPL) CETPA ,Hero Moto Corp, Maruti Suzuki India Ltd ,Whirlpool, Huawei Telecommunications, Honda Cars India Limited , Infotech Pvt. Ltd. Noida, AppMob Technologies, Enrich Agro Food Products Pvt. Ltd., Om Shanti Retreat Centre, Yakult Milk Plant, Cognitel – Gurgaon, Associated Electronics Research Foundation (Aerf), Xinoe Systems, Pvt. Limited, Aksh Optifiber Limited, Institute of Telecom Technology & Management, MTNL, Advanced Level Telecom Training Centre (ALTTC), National Small Industries Corporation Limited (NSIC), TERI- The Energy and Resources Institute, Network Guru, Multisoft Systems, Kiki Centre of Technology, CETPA Infotech Pvt. Ltd, Ashimori Pvt. Limited, to Sherlock Institute of Forensic Science (SIFS) INDIA, Mother Dairy Plant
- Inauguration of E-Yantra Lab. E-Yantra is a project by IIT Bombay with the avowed objective to spread education in Robotics & Embedded Systems. The Ministry of Human Resource Development (MHRD) sponsored E-Yantra under the National Mission on Education through ICT.
- Launched Microsoft Innovation Center (MIC) in the college campus.
- The Entrepreneurship Development Cell (EDC) organized an Entrepreneurship Empowerment Program in association with National Institute for Entrepreneurship &

Small Business Development (NIESBUD), Noida. NIESBUD is an autonomous institute under the Ministry of Micro, Medium and Small Enterprises, Government of India.

- Organized a one-day workshop on INFORMATICA: Data Integration Tool in collaboration with Consultancy Development Centre (CDC), an Autonomous Institution of the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India.
- Coordinated two day National level E-Seminar on Steps 2 Research as being Remote Centre and the seminar is organised by Amal Jyothi College of Engineering.
- Organized a motivational lecture on “CAREER OPPORTUNITIES IN INDIAN AIR FORCE” by Sqn. Ldr. Jitesh Kumar of Air Force Station Rajokri, New Delhi
- Organized a one-day Red Hat Linux Seminar in association with Red Hat Academy
- Conducted Training Programme by Bosch limited at college campus.
- Conducted Training Program by Best Koki Automotives Pvt. Ltd at college campus
- Organized a 4-week training program on “Robotics & Advanced Embedded Systems”
- Zonal workshop on “Mobi-Robotics” in association with IIT Delhi and Robosapiens Technologies Pvt. Ltd.
- Conducted a one day workshop on “Virtual Labs” in association with IIT Delhi
- Organized a one-day Orientation Programme for International Test of English Proficiency (iTEP)
- Organized a three-day National Level workshop cum Championship on STADD PRO V8i in association with Robo Edutech India Pvt. Ltd. and Indian Institute of Technology Bhubaneswar.
- Organized a two days workshop on PCB Designing Using Eagle Cadsoft in association with “Uvsofts Technologies Pvt. Ltd. & IIT BHU, Varanasi”
- Organized an expert lecture on “4G/LTE Networks-Opportunities and Challenges” in association with IETE
- IEEE student branch organized “TECHFiesta” - a technical event. Students from every branch took part in the event very enthusiastically.
- Organized guest lecture on ‘Innovative Methods of Research’. The resource person was Dr. Shatendra Sharma, eminent Professor at Jawaharlal Nehru University, New Delhi.

- Organized a two-day workshop on “Automobile Engine Mechanics” the zonal round of International Automobile Championship “Robo Tryst 2015” in association with Robosapiens Technologies Pvt. Ltd. and IIT Delhi.
- Organized a one-day seminar in association with GATE Academy Private Ltd. to create awareness about the GATE Exam among the students.
- Organized guest lecture on “Recent Trends and Technologies”, conducted by Webswastech Pvt. Ltd.
- Organized guest lecture on “Ethical Hacking”, conducted by Lucideus Technologies, New Delhi.
- Organized guest lecture on Wireless Sensor Network. The Speaker was D.K. Lobiyal , Professor at JNU, New Delhi.
- Organized guest lecture on “Recent Digital Marketing”, conducted by Webswastech Pvt. Ltd., Faridabad.
- Organized a seminar on C++ and Java conducted by NIIT.
- Organized a one day workshop on JOOMLA by TOFL Technologies Ltd. Gurgaon
- Organized a session on “Competitive Learning and Programming” delivered by the team of CODECHEF from Mumbai.
- Google Developer Group of DCE organized a one-day workshop “Google Summer Blaze”.
- Organized one-day seminar on “Advances in Embedded Electronics and Communication Technologies” in association with Resistive Technologies, Gurgaon
- Organized a two-day workshop on “Industrial Automation using PLC & SCADA” in association with Cetpa Infotech Pvt. Ltd.
- Organized a talk on “Innovative Ideas” by **Mr. Vijay Sethi**, CIO of Hero MotoCorp Ltd.
- Organized one-day technical seminar on “Wireless Communication” in association with Huawei
- Organized a one-day workshop on Labview, conducted by the National Instruments (NI)
- Organized a two days’ technical festival DRONTECH-2K15
- Organized a technical seminar on "Golden Search - Website Development & Digital Marketing" by Abbotron Technologies.

- Hosted National Level Examination of Srinivasa Ramanujan Mathematical Competitions 2014 - 15 (SRMC 2014 - 15) ,organized by Indian Society for Technical Education (ISTE)
- International Forum for Excellence in Higher Education (IFEHE) conducted National Creativity Aptitude Test (NCAT) 2015 at college.
- The Entrepreneurship Development Cell (EDC) celebrated E-Week
- ISTE Student Chapter organized a Regional Level Technical Event: DEX-TECH 2014.
- Organized a one day workshop on SOLID WORKS, conducted by Drona Dynamics.
- Organized a one day Certification Boot Camp on Microsoft Excel conducted by Cyber Learning.
- Organized All India Level Test “Intel Easy Steps” conducted by Econs Solution Pvt. Ltd.
- Organized a one-day seminar on “International Internships” in association with AIESEC.
- Google Student Club organized the Second AdClass session of the series to introduce students to Online Marketing using Google's platform, such as AdWords, AdSense, Admob and Analytics.
- Organized one-day presentation “Bentley Academic Bundle”. Mr. Ranjeet Singh from CETPA Infotech Private Ltd. and Mr. Rakesh Barthwal from Advance Educare Training Pvt. Ltd. gave presentations on Bentley Academic Bundle.
- IEEE DCEG Student Branch organized **Robotics Workshop** and conducted by IEEE Delhi chapter.
- Organized a two-day workshop (under the Faculty Development Program) on “Language Skills in English”. The objective of the workshop was to provide resources for enhancing the academic attributes of faculty members particularly in English Language.
- Google Developer Group (GDG) of DCE organized a one-day workshop on AndiPop 5.0 on. The objective of the workshop was to spread awareness about the upcoming features in Android Lollipop 5.0, Android Wear and various technologies introduced during Google I/O.
- Organized a National Level Fresher’s Hunt -Engage Mirchi Freshers in collaboration with Radio Mirchi 98.3 FM. The event was sponsored by Engage Deo Sprays, Eveready, Casio Scientific Calculators, Nataraj (Stationery) and Anne French.

- Google Student Club organized a quiz about Google titled “DO YOU KNOW GOOGLE”.
- Celebrated IEEE DAY and organized TECHNOBUZZ 14 wherein project and poster competitions held to celebrate the day with great enthusiasm.
- IEEE student branch organized an event ‘Circuit Designing and Web Designing’ with the goal of imparting creativity among students and to develop new skills and making them aware of the recent technologies.
- Google Developers Group of DCE organized a two-day event on Android Technology “HACKATHON”. The objective of the technical event was to provide hands-on experience on android technology manifesting imagination into reality in the world of applications.
- Organized a one-day seminar on Corporate Academic Collaboration by C3 Services
- Session on Competitive Learning and Programming
- Conducted interactive session on personality Development for students with Alumni.
- Organized the Seventeenth Fresher’s Welcome Function "Diksha Samaroh" extending a red-carpet welcome to the budding Engineers. Cultural events were organized.
- The 1st International Yoga Day on 21st June 2015 at Boat Club, India Gate, New Delhi was organized by Ministry of Youth Affairs & Sports Government of India. NSS volunteers along with 16 faculty coordinators participated in the event.
- Visit to 30 schools for Awareness Program on Spoken Tutorials which is an initiative by the National Mission on Education through Information and Communication Technology (ICT) launched by the Ministry of Human Resources and Development (MHRD), Government of India and is being developed by IIT Bombay.
- Cleanliness Awareness Program as a part of “Swachh Bharat Mission”
- NSS Volunteers’ in Clean Up The River Drive
- Blood Donation Camp organized by Rotary Club at college campus.
- GDG of DCE organized a one-day workshop “Google Ride” at Sh. S. N. Sidheshwar Sr. Sec. Public School, Sec – 9A, Gurgaon with an objective to spread awareness about the various Google products like Gmail, YouTube, Drive, Books, and Android etc.
- Celebration of Republic Day
- Celebration of Independence Day

- GOOD GOVERNANCE DAY celebrated
- FICCI CASCADE (Committee Against Smuggling and Counterfeiting Activities Destroying the Economy) organized a slogan writing competition on “Fight Against Counterfeiting and Smuggling” at FICCI CASCADE Facebook page in December 2014.
- Seven - Day NSS Special Camp on “Swachha Bharat ,Swasth Bharat”
- Organized CSI-Golden Tech Bridge Programme for imparting technical knowledge to school students.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

| Facilities | Existing | Newly created | Source of Fund | Total |
|--|--------------|---------------|----------------|--------------|
| Campus area | 10.4 Acre | - | Institution | 10.4 Acre |
| Class rooms | 54 | 6 | Institution | 60 |
| Laboratories | 72 | 11 | Institution | 83 |
| Seminar Halls | 11 | - | Institution | 11 |
| No. of important equipment's purchased (\geq 1-0 lakh) during the current year. | | | Institution | |
| Value of the equipment purchased during the year (Rs. in Lakhs) | 35.06 | | Institution | |
| Others | 5.21 | | Institution | |

4.2 Computerization of administration and library

- College is using DCORE software package for managing information across various departments and administration.
- All offices are having dedicated computer systems with peripherals like printers, scanners etc.
- Membership of N-List is added
- DELNET Membership has been renewed
- Membership of British Council of India has been renewed

4.3 Library services:

| | Existing | | Newly added | | Total | |
|------------------|----------|---------|-------------|--------|-------|---------|
| | No. | Value | No. | Value | No. | Value |
| Text Books | 28882 | 7268294 | 6402 | 100975 | 35284 | 7369269 |
| Reference Books | 11984 | 1296247 | 850 | 84350 | 12834 | 1380597 |
| e-Books | - | - | 97000 | 5000 | 97000 | 5000 |
| Journals | 150 | 1128731 | - | - | 150 | 1128731 |
| e-Journals | 2415 | 80590 | 6000 | 5000 | 8415 | 85590 |
| Digital Database | - | - | - | - | - | - |
| CD & Video | - | - | - | - | - | - |
| Others (specify) | - | - | - | - | - | - |

4.4 Technology up gradation (overall)

| | Total Computers | Computer Labs | Internet | Browsin g Centres | Computer Centres | Office | Depart -ments | Other s |
|------------------|-----------------|---------------|----------|-------------------|------------------|--------|---------------|---------|
| Existing 2013-14 | 894 | 17 | 20 MBPS | | 1 | | 8 | |
| Added 2014-15 | 87 | - | 10 MBPS | | NIL | NIL | | |
| Total | 981 | 17 | 30 MBPS | | | | 8 | |

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- All labs are connected with LAN
- Entire campus is having Wi-Fi environment
- Training programs for faculty members were organized by IIT Bombay (Spoken Tutorial), NITTTR, Chandigarh through ICT at college campus.
- Conducted Short Term Course on “Securing Networks through Firewalls, VPN and Intrusion Prevention System” organized by NITTTR, Chandigarh, MHRD, Govt. of India through ICT.

- IIT Bombay organized the coordinators workshop on “Pedagogy for effective use of ICT in Engineering Education” through A-View at college campus.
- One faculty member attended one day workshop of all QEEE Phase III Coordinators organized at IIT Madras. The purpose of the workshop was to make all the QEEE Coordinators familiar with the new software for QEEE Phase III by giving them hands-on session and to inform them about how to create class rooms and other facilities for the program.
- Twenty-one faculty members attended five days ISTE - PTU Sponsored Faculty Development Programme on “Digital Image Processing, Animation and Computer Vision”.
- Two faculty members attended a one - day awareness program on National Mission on Education through Information & Communication Technology (NMEICT) organized by National Institute of Technology, Kurukshetra in association with National Institute of Technical Teacher’s Training & Research, Chandigarh under the aegis of MHRD, Govt. of India.
- Two faculty member attended the workshop on “CISCO Networking Academy Conference and Instructor Retooling” conducted by Cisco Networking Academy. The objective of the workshop was to train the faculty and instructors regarding the applications of Information & Communication Technology (ICT) for imparting technical knowledge.
- The pilot testing of new Online Test Interface on Inkscape by IIT Bombay was organized for the students. Twenty-five students appeared in the pilot test.
- Three students attended the talk on “Evolving Fifth Generation Cellular Networks” at IIT Delhi organized by IEEE Communications Society (ComSoc), Delhi Chapter.
- Two faculty members attended an event the launch of ‘.bharat’ domain in the Devanagari script covering eight languages including Hindi, Konkani and Marathi. The event was conducted by “National Internet Exchange of India (NIXI)” at the India International Centre, Max Mueller Marg, Delhi.
- Fifty-Five students visited Networker Guru, Gurgaon with an objective to familiarize with several Cisco Certification programs which include CCNA, CCNA Security, CCNA voice, CCNP, CCNP Security/CCSP, CCNP Voice/CCVP, CCIP, CCIE Routing & Switching, CCIE Security, CCIE Voice, CCDA, CCIE Service Provider.
- Three faculty members attended a session on “Virtual Labs” in association with IIT Delhi.

- One faculty member along with two students attended a workshop on “5G Standardization: WISDOM” organized by Global ICT standardization Forum for India (GISFI) at Hotel Taj Palace, New Delhi.
 - One faculty member attended a seminar on “Make in India: Electronics” at PHD House, New Delhi.
 - Two faculty members attended a one-day seminar on “Leveraging Pro-AV Communications Technology in Propelling India’s Digital Future” at FICCI Auditorium, New Delhi organized by FICCI in association with InfoComm International.
- One faculty member attended a seminar on “Data Analytics and Machine Learning with MATLAB organized by MathWorks.
- Three Faculty members attended a session on “India and the Emerging World order” organized by Ananta Aspen Centre at WWF India Auditorium, Lodhi Estate, New Delhi.
 - Three faculty members attended a Microsoft Technology Enriched Instruction workshop conducted by “Microsoft”.
 - Two faculty members attended a Pearson’s Business Conference on "International Alliance Partnerships for Indian Institutions" held at The Royal Plaza Hotel, New Delhi
 - Twelve students attended a workshop on “Ethical Hacking & Cyber Forensic”, organized by IEEE Hamdard Student Branch at Jamia Hamdard University, New Delhi. Two students got Letter of Appreciation at the event and got an opportunity to do an Internship Training Program and Project Based Summer Training Program at Bytecode Cyber Security Private Limited, Delhi.
 - Two faculty members attended three-day workshop on “Cyber Crime and Forensic Tools” which was organized by National Institute of Technical Teachers Training & Research (NITTTR) at Chandigarh.
 - Three faculty members attended a two day conference on Digital Bharat 2015, a “Conversations for Advancing ‘Digital India’ and ‘Make in India’ ” organized by FICCI at FICCI Federation House, New Delhi
 - Two faculty members along with three students attended an event on the topic “SQL SERVER DAY” at Microsoft Corporation (India), DLF Cyber City, Gurgaon, organized by SQLSeverGeeks.Com.
 - Seventeen students attended workshop on Cyber Security & Pen Testing organized by IEEE GTBIT Student branch at GTBIT, New Delhi.

- Two faculty members along with 48 students attended National Conference and Annual Session 2015 at New Delhi. The theme of the conference was “Building India: A Shared Responsibility” and organized by Confederation of Indian Industry (CII).
- Three faculty members attended Higher Education Technology Conference 2015 organized by EdTech Review at The Leela, Gurgaon. The aim of the event was to connect the early adopters of technology and 21st century education initiatives to experienced leaders and practitioners.
- Two faculty members along with three students attended an Event IT Camp - Implementing a mobile-first enterprise device strategy organized by Microsoft at Radisson Blu - Dwarka , New Delhi.
- One student attended a conference organized by FICCI at FICCI, Federation House, Tansen Marg, New Delhi . The conference was being organized with a noble agenda to make Indian cities smarter through technology.

Four students attended TechEd India (Microsoft Cloud Dev Camp), an annual conference for developers and IT professionals organized by Microsoft India organized the event at Hotel City Park, New Delhi

- Four students attended an event “Web Dev Camp” to introduce with new languages for building innovative websites organized by Microsoft at Microsoft Corporation (India), DLF Cyber City, Gurgaon.
- One student attended the “2nd Open Policy Meeting of IRINN (Indian Registry for Internet Names and Numbers) at Indian Habitat Center, New Delhi.
- Five students attended two days’ national conference on “Internet Governance and Internet Security (IGIS 2015)” organized by CSI Gurgaon Chapter & NIXI.

4.6 Amount spent on maintenance in lakhs:

| | |
|--|--------------|
| i) ICT | 15.44 |
| ii) Campus Infrastructure and facilities | 39.98 |
| iii) Equipments | 6.87 |
| iv) Others | 32.04 |
| Total: | 94.33 |

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Academic calendar is uploaded on the college website in the beginning of the session
- Notices regarding various activities and student support programs are prominently displayed on notice boards.
- Marks of internal sessional are displayed on the college website.
- E-mail to all students regarding various student support services are sent frequently.
- SMS to all students regarding various student support services are sent frequently.

5.2 Efforts made by the institution for tracking the progression

- Regular interaction with parents
- Complete information of every student is maintained at the department level
- Detailed analysis of the sessional examinations is done at department level and corrective actions are initiated wherever required.

5.3 (a) Total Number of students

| U. G. | P. G. | Ph. D. | Others |
|-------|-------|--------|--------|
| 2511 | 30 | NIL | Nil |

(b) No. of students outside the state

1106

(c) No. of international students

NIL

| No | % |
|------|-------|
| 2058 | 80.99 |

Men

| No | % |
|-----|-------|
| 483 | 19.01 |

Women

| Last Year | | | | | | This Year | | | | | |
|-----------|----|----|-----|-----------------------|-------|-----------|----|----|-----|-----------------------|-------|
| General | SC | ST | OBC | Physically Challenged | Total | General | SC | ST | OBC | Physically Challenged | Total |
| 1793 | 98 | 0 | 595 | 0 | 2486 | 1922 | 93 | 0 | 526 | 0 | 2541 |

Demand ratio

Dropout % 2.11

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Organized GATE preparation classes for pre-final and final year students
- Organized a one-day seminar in association with GATE Academy Private Ltd. to create awareness about the GATE Exam among the students.
- Hosted National Level Examination of Srinivasa Ramanujan Mathematical Competitions 2014 - 15 (SRMC 2014 - 15) organized by Indian Society for Technical Education (ISTE)
- Conducted National Creativity Aptitude Test (NCAT) organized by IIT Delhi in association with International Forum for Excellence in Higher Education (IFEHE) annually.
- Online iTEP (International Test of English Proficiency) Test was organized in collaboration with iTEP. iTEP is an English assessment body for EdCIL India Limited, a public sector enterprise under the Ministry of HRD, Government of India.
- Conducted on- line exam for Microsoft Office Specialist (MOS) Expert Certification with an objective to test advance skills of the students in Microsoft Technologies and Products.
- Conducted Cisco Certified Network Associate Routing & Switching (CCNA) certification to increase the knowledge of the students in Networking.

No. of students beneficiaries

1271

5.5 No. of students qualified in these examinations

| | | | | | | | |
|-------------|----------------------|-----------|----------------------|------|----------------------|--------|----|
| NET | <input type="text"/> | SET/SLET | <input type="text"/> | GATE | 9 | CAT | 1 |
| IAS/IPS etc | <input type="text"/> | State PSC | <input type="text"/> | UPSC | <input type="text"/> | Others | 19 |

5.6 Details of student counselling and career guidance:

- Career guidance cell guides students about various options after B. Tech.
- All final year's students are mentored in small groups.
- Organized a motivational lecture on "Career Opportunities in Indian Air Force" by Sqn. Ldr. Jitesh Kumar of Air Force Station Rajokri, New Delhi.

- Conducted AMCAT Assessment for final Year Students.
- Conducted eLitmus Placement Assessment for final Year Students.
- Conducted Cocube Diagnostic Assessment for final Year Students.
- One Faculty attended the 15 days Faculty Development Program at Entrepreneurship Development Institute (EDI), Ahmedabad for guiding and motivating students for taking entrepreneurship as their career. The program was supported by National Science & Technology Entrepreneurship Development Board Department of Science & Technology, Government of India.
- Final year students attended a talk by Mr. Gautam Puri known as the “aptitude guru”, co-founder of Career Launcher on “GPkaFunda”.
- One faculty member along with 25 students attended a lecture on “Entrepreneurship” at The Entrepreneurship School, Gurgaon.
- Three students attended the I-talk Series at NSIT, New Delhi organized by IEEE NSIT Chapter to make the students aware of the various opportunities in the professional world.
- Four students attended an extension lecture on “Upcoming Opportunities” at IETE Headquarters, Lodhi Road, New Delhi.
- Six students along with one faculty member attended the Global Entrepreneurship Summit at IIT Kharagpur organized by its E-Cell.
- One faculty member attended the Training of Trainers Program on “Employability Skills through Life Skill Approaches” organized by Rajiv Gandhi National Institute of Youth Development (RGNIYD), Regional Centre, Chandigarh.
- Nine students attended the National Level Symposium on “Growth and Prospects of MSME Sector in Emerging Scenario” organized by Ministry of Micro, Small and Medium Enterprises (MSME), Govt. of India along with Confederation of Indian Industry (CII) at India Habitat Centre, Lodi Road, New Delhi.
- Two students attended an event GEEKEST'15 at 91Springboard, Gurgaon India's largest co working hub for startups, organized by Hack4India.
- Four students attended the event “Web Dev Camp”. Event was to introduce with new languages for building innovative websites organized by Microsoft at Microsoft Corporation (India), DLF Cyber City, Gurgaon.

- One faculty member along with two students attended DGR National Corporate Conclave 2014 which aims to create awareness among the corporate sector about the availability of a vast multitude of experienced veterans of the services who possess attributes and skills of a highly refined quality, for placement in the Industry at Manekshaw Centre, Khyber Lines, New Delhi.
- One faculty member along with one student attended the “Third C.K Prahalad Memorial Lecture 2014 - My Journey Beyond Business” conducted by Ananta Aspen Center and CII- Young Indians(Yi) at the WWF India Auditorium, Lodhi Estate, New Delhi.
- One faculty member attended The Micro, Small and Medium Enterprises (MSME) programme of GIZ, Ministry of Micro, Small and Medium Enterprises, Small Industries Development Bank of India, Indo-German Chamber of Commerce and Federation of Indian Chambers of Commerce and Industry (FICCI) jointly organized the 2nd Indo-German SME Forum at Hotel Lalit, New Delhi.
- One faculty member attended a one-day Conclave on Entrepreneurship Education organized by All India Council for Technical Education (AICTE) at Hotel Ashok, Chankyapuri, New Delhi.
- Two faculty member along with two students attended the Global SME Business Summit-2014 organized by Confederation of Indian Industry (CII) in partnership with the Ministry of MSME, Government of India at the India Habitat Centre, New Delhi.
- Two faculty members along with thirty students attended the 10th FICCI Higher Education Summit 2014: a Global Conference organized by Federation of Indian Chambers of Commerce & Industry (FICCI) at FICCI New Delhi. The Summit was supported by the Ministry of Human Resource Development (MHRD) and the Planning Commission, Government of India. The theme of the Conference was Internationalization of Higher Education and Implementation Framework for ‘Higher Education Vision 2030: Making it Happen in India.
- Twenty-one students trained by BOSCH Limited. The Training program was related to Fuel Injection System and Engine Management.
- One faculty member along with six MSP attended the MSP Summit at Bhopal. Microsoft India organized Microsoft Student Partner (India) Summit 2014 for all Microsoft Student Associates (MSA) and Microsoft Student Partners (MSP) from 29 different states of India.
- Three faculty members attended the inauguration program and 04th AICTE - CII Global University Congress Knowledge Expo organized by Confederation of Indian Industry

(CII) in collaboration with Department of Science & Technology (DST), Ministry of Human Resource Development (MHRD), Department of Industrial Planning & Promotion (DIPP), All India Council of Technical Education (AICTE) & India Design Council and Intellectual Property India at Indo Expo Centre, Greater Noida.

- Three faculty members attended India-US Technology Summit at India Expo Centre Greater Noida.
- Organized a Pre Placement talk with an objective to provide placement tips particularly related to skills, data interpretation modules, aptitude, personality traits etc. The lecture was delivered by Mr. Virendra Sharma, Founder & Director, INTEGER Innovation.
- Organized a workshop on Personality Development. A Team from NIIT Gurgaon Centre visited college.
- Two faculty members attended a conference on Contours of Higher Education Policy for Bharat organized against the backdrop of Union Government's ongoing review of national educational policy at the Commission Hall, 3rd Floor, FICCI Federation House, New Delhi.
- One faculty member represented college in the launch of Wadhvani Centre of Excellence with a vision to accelerate and scale the creation of entrepreneur & support community entrepreneurs at Greater Noida.
- Faculty coordinator attended a meeting on proposal of Short Term Training Programmes 2015-16 for Engineering Colleges faculty & students conducted by NITTTR Chandigarh.

No. of students benefitted

| |
|-----|
| 587 |
|-----|

5.7 Details of campus placement

| Number of Organizations Visited | On campus | | Off Campus |
|---------------------------------|---------------------------------|---------------------------|---------------------------|
| | Number of Students Participated | Number of Students Placed | Number of Students Placed |
| 193 | 264 | 251 | 13 |

5.8 Details of gender sensitization programmes

- One girl student attended the National seminar on “Gender Discrimination in India” which was organized by National Service Scheme at Maharshi Dayanand University, Rohtak (Haryana).
- IEEE Women in Engineering Student Branch of DCE, Gurgaon was inaugurated.
- One female faculty attended the 15 days Faculty Development Program at Entrepreneurship Development Institute (EDI), Ahmedabad for guiding and motivating students for taking entrepreneurship as their career. The program was supported by National Science & Technology Entrepreneurship Development Board Department of Science & Technology, Government of India.
- Eight female students attended WIE (WOMAN IN ENGINEERING) Meet organized by IEEE Student Branch at New Delhi.
- Two female faculty members along with 49 girl students attended the Live TV show of Women Rock- IT. The event was organized by Shaheed Rajguru College of Applied Sciences for Women, Vasundhra Enclave, New Delhi in collaboration with Cisco Networking Academy.
- Two female faculty members visited 30 schools with an objective to broaden awareness regarding Spoken Tutorials which is an initiative by the National Mission on Education through Information and Communication Technology (ICT) launched by the Ministry of Human Resources and Development (MHRD), Government of India and is being developed by IIT Bombay.
- One female faculty member attended the 15 days Faculty Development Program, conducted by Entrepreneurship Development Institute (EDI), Ahmedabad for guiding and motivating students for taking entrepreneurship as their career. The program was supported by National Science & Technology Entrepreneurship Development Board Department of Science & Technology, Government of India.
- One female faculty member attended a one week coordinators’ workshop conducted by NMEICT, MHRD Govt. of India at IIT Kharagpur.
- One female faculty member attended a one week short term course on Integrated Automation Technologies under the scheme of Technical Education Quality Improvement Programme (TEQIP - II) held at IIT Delhi .
- One female faculty member attended a Faculty Development Program on “Modeling & Simulation of Signal processing & Mechatronics systems and Implementation on DSP kits/ Microcontrollers with MATLAB”.

- One girl student attended a conference organized by FICCI at FICCI, Federation House, Tansen Marg, New Delhi - The conference was being organized with a noble agenda to make Indian cities smarter through technology.
- One female faculty member along with two girl students attended the Exhibition Festo Didactic, organized at WORLD DIDAC INDIA, Pragati Maidan, New Delhi. The exhibition showcased all the Hardware, and Product Technologies Exhibition.
- One female faculty member along with two girl students attended an “International Conference on Emerging Trends in Science and Cutting Edge Technology (ICETSCET)” at YMCA, Connaught place, New Delhi.
- One female faculty member attended two day workshop on “Interdisciplinary Emerging and Converging Research and Academia in Semiconductor Technologies” organized by IIT Mandi in association with TU9, University of Stuttgart, Germany.
- One female faculty member attended the Training of Trainers Program on “Employability Skills through Life Skill Approaches” organized by Rajiv Gandhi National Institute of Youth Development (RGNIYD), Regional Centre, Chandigarh
- One female faculty member attended a lecture session on “Graph Theoretic approach to Topology Control in Wireless Sensor Networks” at Department of Mathematics, IIT Delhi.
- One girl student attended one Day National Conference on “Recent Trends in Communication and Technology (RTCT-2015)” in collaboration with IEEE student branch PDMCE & IMS/EMBS (Delhi)
- Three girl students attended a technical talk on Applications of Dynamic Ratings in Real - Time Operation of Grid by N. D. R. Sharma at IIT Delhi, organized by IEEE Delhi Chapter.
- Two girl student attended a seminar on “Advancing your future on the Cloud” conducted by the pk“IBM Cloud Innovation Forum” at The Leela Ambience, Gurgaon.
- One female faculty member attended a Xinoe Techway Program(Product Demo: Embedded Hardware & Software Technologies) at Xinoe, Electronic City Gurgaon.
- Two female faculty member attended a two- day workshop on ‘Emerging Research Trends in Engineering ’sponsored by CSIR, India and organized by ‘IET, Ahmedabad University’ in association with IEEE Gujarat Section at ‘Ahmedabad Management Association’.
- One female faculty member attended an event the launch of ‘.bharat’ domain in the Devanagari script covering eight languages including Hindi, Konkani and Marathi. The event was conducted by “National Internet Exchange of India (NIXI)” at the India International Centre, Max Mueller Marg, Delhi.
- Two female faculty members attended a Session on Virtual Labs.

- One female faculty member attended a workshop on “5G Standardization: WISDOM” organized by Global ICT standardization Forum for India (GISFI) at Hotel Taj Palace, New Delhi.
- One female faculty member attended the 2nd Indo-German SME Forum at Hotel Lalit, New Delhi, jointly organized by The Micro, Small and Medium Enterprises (MSME) programme of GIZ, Ministry of Micro, Small and Medium Enterprises, Small Industries Development Bank of India, Indo-German Chamber of Commerce and Federation of Indian Chambers of Commerce and Industry (FICCI).
- One female faculty member attended a one-day conclave on Entrepreneurship Education organized by All India Council for Technical Education (AICTE) at Hotel Ashok, Chanakyaपुरi, New Delhi. The Conclave was inaugurated by Smt. Smriti Zubin Irani, Minister of Human Resource Development, Govt. of India.
- One female faculty member attended a one - day Technical Symposium organized by National Instruments, New Delhi. The objective of the symposium was to showcase the National Instruments Graphical System Design Approach.
- One female faculty member attended a one-day workshop on “EMC Forum-2014” at Hotel JW Marriott, Aerocity New Delhi.
- Two female faculty members attended a five-day workshop on Design Thinking organized at IIT Kanpur.
- One female faculty member attended a one-day seminar on “Leveraging Pro-AV Communications Technology in Propelling India’s Digital Future” at FICCI Auditorium, New Delhi. The seminar was organized by FICCI in association with InfoComm International. The objective of the seminar was to disseminate the ways and means making India digital.
- Two female faculty members attended workshop “Women entrepreneurs in technology” in India-US Technology Summit at India Expo Centre Greater Noida. Leading Indian and U.S. women tech. entrepreneurs addressed aspiring women professionals on building career in science & technology.
- One female faculty member attended a one-day International Conference on “Creating a Second Green Revolution in India” at Hotel The Lalit New Delhi.
- One female faculty member along with six MSP attended the MSP Summit at Bhopal. Microsoft India organized Microsoft Student Partner (India) Summit 2014 for all Microsoft Student Associates (MSA) and Microsoft Student Partners (MSP) from 29 different states of India.

- One female faculty member along with two students attended the conference on Health & Safety Aspects of Mobile Telecommunications at The Ashoka Hotel, New Delhi organized by ASSOCHAM.
- Two female faculty members attended a Microsoft Technology Enriched Instruction workshop conducted by “Microsoft”.
- One female faculty member attended the conference “Bridging the Gap: Building Ecosystem for Inclusive Value Creation” at Indian Habitat Centre, New Delhi, organized by Confederation of Indian Industry (CII).
- One female faculty member attended a seminar on “Make in India: Electronics” at PHD House, New Delhi.
- One female faculty members attended the workshop on “National Skill Qualification Framework (NSQF: The Framework & its application in Sector Skills Council)” organized by confederation of Indian Industries(CII) Gurgaon Branch at the CII Centre, Udyog Vihar, Gurgaon.
- Two female faculty members attended the conference on “Contours of Higher Education Policy for Bharat”, organized against the backdrop of Union Government’s ongoing review of national educational policy at the Commission Hall, 3rd Floor, FICCI Federation House, New Delhi.
- Two female faculty members attended an interactive session on Corporate Happiness organized by All India Management Association (AIMA), at AIMA, New Delhi.
- Two female faculty members attended a two day conference on Digital Bharat 2015, a “Conversations for Advancing ‘Digital India’ and ‘Make in India’” was organized by FICCI at FICCI Federation House, New Delhi.
- One female faculty member attended a one-day “Conference on Manufacturing” conducted by CII (Confederation of Indian Industry) at The Leela, Ambience, Gurgaon.
- Three female faculty members along with girl students attended the National Summit on CSR, organized by Confederation of Indian Industry (CII) in cooperation with National Foundation for Corporate Governance (NFCG) at Vigyan Bhawan, New Delhi.
- One female faculty member attended a technical talk on “New Technologies in Solar Photo-Voltaic and Software Applications”, organized by CSI Delhi Chapter.
- Two female faculty members along with 10 girl students attended National Conference and Annual Session 2015 at New Delhi. The theme of the conference was “Building India: A Shared Responsibility” and organized by Confederation of Indian Industry (CII).
- One girl student attended a one-day Entrepreneurship event, organized by BW Business World at Le Meridian, New Delhi.

- One female faculty member along with two girl students attended an Event on the topic “SQL SERVER DAY” at Microsoft Corporation (India), DLF Cyber City, Gurgaon, organized by SQLSeverGeeks.Com.
- Two female faculty members attended a session on “India and the Emerging World order” organized by Ananta Aspen Centre at WWF India Auditorium , Lodhi Estate , New Delhi.
- Two female faculty members presented a paper entitled “Analysis of Cardiac Health Using Chaotic Theory” in the International Conference on Recent Trends in Engineering Science and Management (ICRTE SM) organized at Jawaharlal Nehru University, New Delhi.
- Two female faculty members attended a Pearson’s Business Conference on "International Alliance Partnerships for Indian Institutions" held at The Royal Plaza Hotel, New Delhi .
- One female faculty member attended “Higher Education Technology Conference 2015” organized by EdTech Review at The Leela, Gurgaon. The aim of the event was to connect the early adopters of technology and 21st century education initiatives to experienced leaders and practitioners.
- One female faculty members attended IEEE lecture on “History of development of Microelectronics in India” at IIT Delhi organized by Department of Electrical Engineering, IIT Delhi in association with IEEE CAS-CS Delhi section.
- Two female faculty members along with one girl student attended an event IT Camp - Implementing a mobile-first enterprise device strategy organized by Microsoft at Radisson Blu - Dwarka , New Delhi
- Two female faculty members attended the 28th Foundation Day of Technology Information, Forecasting and Assessment Council (TIFAC), New Delhi.
- Two female faculty members along one girl student attended the IEEE lecture on “Issues associated with implementation of Embedded Generation and Microgrids” at Jamia Millia Islamia, New Delhi, organized by IEEE-JMI Delhi Chapter.
- One female faculty member attended IEEE Technical Activities Volunteer Workshop at Hotel Hyatt Regency, New Delhi.
- One female faculty member along with eight students attended IEEE All India Student Congress (AISC) at DTU, New Delhi
- One female faculty member attended a “Workshop on Cognitive Radio using USRP” at Indian School of Mines, Dhanbad. The workshop was organized with an objective to introduce recent research aspects in the field of cognitive radio.
- One female faculty member attended an event “GDayX” at JW Marriott Hotel Chandigarh organized by Google Business Group.

- One female faculty member attended a one-day event “COMSOL 5.0 Launch” organized by COMSOL India Ltd. at Hotel Hans, New Delhi.
- One female faculty member attended an Advance Training Programme on “Smart Grid Technology”, organized by India Smart Grid Forum at Jaypee Siddartha Hotel, New Delhi.
- One female faculty member attended the “Distinguished Lecture Colloquia” organized by IEEE SSCS Delhi Chapter at STMICROELECTRONICS, Greater Noida. The event was sponsored by IEEE-SSCS, STMICROELECTRONICS, Free -scale Semiconductor, Keysight Technologies, Synopsys and IIT Delhi.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

| | Number of students | Amount |
|--|--------------------|--------|
| Financial support from institution | 4 | 1.35 |
| Financial support from government | 9 | .68 |
| Financial support from other sources | | |
| Number of students who received International/ National recognitions | | |

5.11 Student organised / initiatives

Fairs : State/ University level National level International level
Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed : Nil

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision – To be a renowned name in the field of Education and Academic Excellence while maintaining International Standards, Integrity and Ethics.

Mission – To provide innovative & quality education with high standards to achieve academic excellence.

To Respect and Comply with University and AICTE Norms, International Quality Standards and Legal requirements.

To continually improve our competitive edge through innovations, motivation, suggestion schemes and Student Feedbacks.

6.2 Does the Institution has a management Information System

Yes- College has **DCORE**- College's customized Management Information System

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

College is affiliated to M. D. University Rohtak and the change in curriculum is being done by the university. Representatives of the college put their point of view in all meetings held at MD University, Rohtak regarding the development of curriculum.

6.3.2 Teaching and Learning

- All the class rooms are equipped with LCD Projectors
- High Speed Internet connectivity through Wi-Fi.
- Online assignments
- PPTs, notes, lab manuals and other information related with subject are available on college website.
- Encouraging students to work on e-Yantra experimental set ups
- Remedial classes are held for the students requiring additional support.
- Well-equipped library for both faculty and students.
- Regular feedback from students to improve teaching and learning methods.

6.3.3 Examination and Evaluation

- University exams are conducted by M. D. University Rohtak,
- Three internal sessional are conducted by the college every semester to judge the performance of students at various intervals.
- College is also one of the very few spot evaluation centres of M. D. University where answer sheets of university exams are evaluated.

6.3.4 Research and Development

- Faculty presented a paper in the International Conference on “Communication, Information & Computing Technology (ICCICT-15)” organized at Global Institutes, Amritsar (Punjab). The title of the paper was “An Empirical Study of Mobile Software Engineering to Improve Cloud Computing Environment”.
- Faculty member presented a paper titled “Role of Financial Inclusion in Socio - Economic Development in Rural India” in International Conference on “Innovative Strategies for Competitiveness and Sustainability in Global Business Environments (ISCSGBE)”
- Faculty presented her paper entitled “Crosstalk Analysis in Photonic Crystal Based Heterostructure Coupled Waveguide” in International Conference on “Computing for Sustainable Global Development” technically supported by IEEE Delhi Section and co supported by IETE, IET, ISTE & CSI.

- Faculty presented a paper titled “Role of Microfinance in Attaining Financial Inclusion & Women Empowerment: An Overview” in International Conference on Microfinance and Micro entrepreneurship: “A Paradigm shift for skill Development.” organized by joint efforts of Department of Economics, Bhagat Phool Singh Mahila Vishwavidyalaya (BPSMV) Sonapat, India (First State Women University in North India) and Banque Populaire Chair in Microfinance of the Burgundy School of Business, France.
- Faculty presented a paper entitled “Cost-Benefit Analysis of a Computer System with Arbitrary Distributions for H/W Failure and S/W Up-Gradation Subject to Inspection” in a three-day National Conference on Recent Trend and Developments in Statistics (NCRTDS)” with 1st Convention of Indian Association for Reliability and Statistics (IARS).
- Faculty presented a research paper titled “A Hybrid PAPR Reduction Technique based on Wavelet & PTS Scheme in OFDM System Using QPSK Modulator” in IEEE International Conference on “Signal Processing and Integrated Networks (SPIN-2015)”.
- Faculty presented a research paper on the topic “Observational and Analysis Techniques for Studying the Ionosphere-a precursor Zone for Detection of Earthquakes” in the International Conference on “Applied Sciences, Environmental Engineering and Energy Technology for Sustainable Development (ASET-2015) held at Jawaharlal Nehru University, New Delhi.
- Faculty along with three students presented the research paper titled “Analysis and Evaluation of Wireless Communication in Industrial Automation” in IEEE Conference on “Computational Intelligence & Communication Technology (ICCICT 2015)”
- Faculty along with two students presented the research paper titled “Analysis of Noise Abatement Major Source of Pollution: Technical Remedies” in IEEE Conference on “Computational Intelligence & Communication Technology (ICCICT 2015)”.
- Faculty presented her paper titled “Make a Website at higher ranking in search using search engine optimization technique” in a two day International Conference on Quality Management Practices for Global Excellence at Prestige Institute of Management & Research, Indore (M.P). The conference was in collaboration with Siam University, Thailand and International Latin University, Argentina.
- Faculty presented the research paper titled “Antifungal and Antibacterial activities of 2, 3, 5-tricholoro pyridine on growth of Aspergillius flavus, Aspergillius nigar, Aspergillius fumigatus and Rizopus fungi” in 17th International Conference of “International Academy of Physical Sciences (CONIAPS-XVII) On Emerging Trends in Physical Sciences & Technology” at University of Rajasthan, Jaipur.

- Faculty presented a paper titled "Role of Microfinance Fostering Financial Inclusion in Poverty Alleviation: An Overview" in the 7th International Conference on "Managing Organizations of tomorrow by capitalizing Generation Next". The event was sponsored by the Indian Council for Social Science Research and Association of Indian Management Schools and co-sponsors by Indian Oil Corporation and Oriel India Group of Companies.
- Faculty chaired the session for the event on Fundamental and Applied Sciences .He also presented his paper on "Anomalous Dispersion of Microstructure Fiber Laser Based on Intracore High-Energy Femtosecond" in Tokyo International Conference on Engineering and Applied Sciences (TICEAS-2014) was organized by Higher Education Forum, Japan at Tokyo.
- Faculty presented the paper in National Conference on "RF and Wireless Communication and Networks NCRWCN- 2014". The conference was sponsored by ISST India, DST India, Indraprastha University Delhi and Central bank of India.
- Faculty presented a paper titled English Language in Global Perspective in a two-day National Seminar on Relevance of Inter-Disciplinary Approach in Higher Education (RIAHE-2014) held at Chaudhary Ranbir Singh University, Jind, Haryana. The seminar was sponsored by Directorate of Higher Education, Haryana.
- Two faculty members presented their paper in two - day National Conference on "Higher Education and Civil Society on 21st Century (Expansion-Equity and Excellence)" at Punjabi University, Patiala.
- Faculty presented his Research paper in the International Conference on "Innovative Approach in Applied Physical, Mathematical/Statistical, Chemical Sciences and Emerging Energy Technology for Sustainable Development (APMSCSET-2014)" at Jawaharlal Nehru University, New Delhi.
- Faculty along with student presented a research paper titled "Podcast: A Tool for Educational Advancement" in a three- day 9th International & 45th Annual ELT@I Conference on 'English - From Classes to Masses', organized by English Language Teachers' Association of India (ELT@I) and Vivekanand Global University (VIT Campus), Jaipur.
- Two faculty members presented a paper entitled "Analysis of Cardiac Health Using Chaotic Theory" in the International Conference on "Recent Trends in Engineering Science and Management (ICRTE SM)" organized at Jawaharlal Nehru University, New Delhi.
- Student presented a research paper entitled "Reading and Understanding for professionals through E-Learning" in conference "International Research symposium on Recent Strategy for Development and Information Technology", organized

by International Association of Academicians and Researchers (INAAR) held at India International Centre, Lodhi Road, New Delhi.

- One student has been selected as the reviewer in the International Conference on “Digital Information, Networking, and Wireless Communications (DINWC2014)” held at VSB-Technical University of Ostrava, Czech Republic.
- A research paper entitled “EDUCAPP: Learning Models through Gesture Control” , by student has been accepted in The 5th International Conference on Industrial Engineering & Operations Management (IEOM) at Dubai, United Arab Emirates. The paper will be published in the IEEE Xplore.
- Students have been shortlisted for the National Finals in Microsoft Imagine cup 2015.
- Students were listed in top 20 in Ericsson Innovation Awards 2015 at Global Level.
- Student secured 1st Position and a cash prize of Rs. 2000/- in Project Presentation in annual fest, Sangtaraash 2015, held at SPM College, Delhi University
- Students won the first prize in the IEEE Technical Project Exhibition for their project entitled “Bank Account Transaction Management”
- Project "Bloodspill" was listed in top 32 excellent entries in Al Jazeera Innovation Challenge.
- Student bagged a cash prize of Rs. 5000/- and 4th position in the IBETO EXCEL 2014 Project Competition for the project entitled “Missing Ones”. IBETO EXCEL 2014 Project Competition is sponsored by IEEE and organized by the Govt. Model Engineering College Kerala on 27th September 2014.
- Project “Intelligent [Real time] Traffic Routing” won 1st Prize at "The Young Entrepreneurs Panel" projects competition organized by Faridabad Industry Association (FIA).
- Project “Intelligent [Real time] Traffic Routing” exhibited in the GridTech-15, Students Innovation Pavilion, conferred 3rd prize (with a tag of Rs. 1 Lakh).
- Student’s bagged 1st position for their project titled ‘Self Defence Gun’ in the one day project competition held at ITM University, Gurgaon in November 14.
- Project "Wireless Gesture Robotics Arm” got 2nd position in Techno-Avishkar 2014 organized by Rawal Institute of Engineering and technology (RIET) on 11th September 2014.

- Project "Hydrogen Hybrid Vehicle System" won 1st Prize at "The Young Entrepreneurs Panel" projects competition organized by Faridabad Industry Association (FIA).
- One student has been awarded Rs.10000 and a certificate for his project "Hybrid Hydrogen Car" by Deptt. of Science and Technology.
- Winner of Zonal Round of Robo - Tryst 2015 was selected for participating in the final rounds of Automobile Engine Design Competition to be held at IIT Delhi.
- Students were awarded runner - up position for their project Robo Rotating on Car with Robotic Arm in Innotech 2014.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Library is having the Digital Section.
- Facilities of Portal and Learning Management System for all faculty and students are provided.
- All class rooms, tutorials rooms, seminar halls, laboratories pertaining each department is enabled with ICT tools.
- Remote centre of IIT Bombay for conducting ICT Workshops
- Nodal Centre of IIT Delhi for virtual labs.
- Resource Centre of Spoken Tutorial of IIT Bombay for online certifications
- Faculty members prepare power point presentation for better explanation of topics to the students
- All labs are having latest machines and software. Classrooms and labs are spacious and comfortable.

6.3.6 Human Resource Management

- College is having its separate human resource department for addressing the grievances of the staff members.
- Arranging various orientation programmes for both teaching and non-teaching staff for upgradation of their skills in their respective fields using latest technology.

- Incentives are given to the faculty members for presenting research papers in reputed Journals / International and National Conferences.

6.3.7 Faculty and Staff recruitment

- Before the beginning of semester, all HODs are requested to give the requirement for next semester. Advertisements in two leading News Papers are published and eligible candidates are called for interview by the Human Resource Department.
- Interview is conducted by an expert committee which also included subject experts. All terms & conditions and service rules are explained to the selected candidates.
- Appointment letter is offered to all selected candidates.

6.3.8 Industry Interaction / Collaboration

- **iTEP Education India**- For English language proficiency test
- **Consultancy Development Centre (CDC)** is an Autonomous Institution of the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India. - For the Programme “Building Capacities for Consultancy Development & Knowledge Management with Partner Institution (KMPI).
- **QEEE an initiative of MHRD** – For D2S (Direct to Student) Program
- **C++ Institute Authorized Academy Program**- For e-learning system to deliver C/C++ courses
- **IIT Bombay**- Remote Centre for conducting workshops & FDPs
- **IIT Kharagpur**- Remote Centre for conducting workshops & FDPs
- **IIT Delhi (Virtual Lab)**-Nodal Centre for virtual lab
- **Spoken Tutorial(IIT Bombay)** - Resource Centre for Faculty Development Program, Online Certification, Awareness Session
- **NPTEL Local Chapter**- for Online Certification, Workshops & FDPs
- **Bosch India Ltd**- Training Programme for Students
- **Best Koki Automative Pvt. Ltd.**-Seminars, Training Program
- **Cocube .-** For pre-employment assessment skills & Aptitude Test.
- **eLitmus Evaluation Pvt. Ltd**- For Pre-Employment Assessment for placement.
- **Monster.com India Pvt. Ltd** - For online recruitment solution
- **Aspiring Minds (AMCAT)**- For Pre-Employment Skill Assessment Program

- **Ted consulting**- For development and deployment of Cloud based services
- **IBM** - IBM Centre of Excellence
- **Microsoft** - Microsoft IT Academy
- **Prometric** – Prometric Testing Centre
- **ORACLE** - for Oracle IT Academy
- **CISCO** - for CISCO Networking Academy
- **Nicco Venture Ltd.**- For pre-employment assessment skills & Aptitude Test
- **Huawei** - Industrial Visit of students
- **Maruti** - Industrial Visit of students
- **Network Bulls** - Industrial Visit of students
- **National Institute for Entrepreneurship & Small Business Development (NIESBUD)**, Noida is an autonomous institute under the Ministry of Micro, Medium and Small Enterprises, Government of India - Entrepreneurship Empowerment Program
- **Amal Jyothi College of Engineering**- For E-Seminar on STEPS 2 RESEARCH for Faculty Development
- **Confederation of Indian Industry (CII)**- For interaction with industry experts
- **International Forum for Excellence in Higher Education (IFEHE)**- For conducting National Creativity Aptitude Test (NCAT) for students.
- **IUCEE**- Mini Course for Research Methodology
- **National Entrepreneurship Network (NEN)**
- **Franciscan Solutions Pvt Ltd**- For online panel for managing college information & SMS & Mailing services
- **XLRI Xavier School of Management**- For conducting online XAT exam
- **TCS** - MOU for Online Exam
- **N-LIST (INFLIBNET)**, Ahemdabad
- **American Centre Library**, New Delhi
- **British Council Library**, New Delhi
- **National Science Library**, NISCAIR, New Delhi
- **Developing Library Network (DELNET)**, New Delhi
- **Symbiosis**- MOU for Online Exam
- **Xentaqsys Technologies PVT LTD** - For DCORE software package for managing

6.3.9 Admission of Students

- Admission is based on the merit of JEE rank and counselling is being conducted by Haryana State Counselling Society, Govt. of Haryana

6.4 Welfare schemes for

| | |
|--------------|---|
| Teaching | 2 |
| Non teaching | 2 |
| Students | 5 |

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done

Yes No

6.7 Whether Academic and Administrative Audit (AAA) have been done?

| Audit Type | External | | Internal | |
|----------------|----------|--------|----------|-----------|
| | Yes/No | Agency | Yes/No | Authority |
| Academic | Yes | ISO | Yes | Committee |
| Administrative | Yes | ISO | Yes | Committee |

6.8 Does the University/ Autonomous College declare results within 30 days? N.A.

For UG Programmes Yes No

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

N.A.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?
N.A.

6.11 Activities and support from the Alumni Association

- Conducting interactive sessions
 - Alumni entrepreneurs motivate students for entrepreneurship as a career option
 - Alumni conduct placement technical training as well as placement technical mock interviews.

6.12 Activities and support from the Parent – Teacher Association

- Two parent-teacher meetings are held in every semester in college. Parents are given brief about the progress of their ward and discussion the scope of the improvement.
 - Suggestions and feedback from parents are also taken into consideration.

6.13 Development programmes for support staff

- Skilled Development Programs are conducted for enhancement of their skills.
 - Motivational lectures are conducted for non-teaching staff.
 - Awards & certificates are also being issued for best performers.
 - Training in fire safety, emergency situation handling
 - Librarian attended the International Symposium on “Emerging Trends and Technologies in Libraries and Information Services - ETTLIS 2015”, technically sponsored by IEEE in association with King’s College, London

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Tree Plantation
- Recycling of waste papers
- Water harvesting system in the college.
- Separate bins are kept in the campus for segregating waste.
- Solar Heating System in hostel for heating water in winter.
- Use of plastic items is prohibited in college.
- College bagged 1st Position in a two-day Annual Flower Festival - 2015 organized by Haryana Urban Development Authority at Leisure Valley Park, Sector-29, Gurgaon.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the Functioning of the institution. Give details.

Innovations:

- a) Summer Internship Training Programme conducted regularly. Topics are based on industry requirement.
- b) The project work is started from 2nd year onwards.
- c) Industrial visits are organized to give industry exposure.
- d) QEEE an initiative of MHRD – For D2S (Direct to Student) Program
- e) Students are encouraged to participate in Technical competitions.
- f) Students are encouraged for paper presentation & paper publication.
- g) Spoken Tutorial certification from IIT Bombay for all the students.
- h) Faculty members are using NPTEL Videos in their classes for better understanding of the concepts.
- d) Facility of virtual labs for the students to give them more practical concept.
- e) Assignments are given on-line and PPT of all lectures, lab manuals are available on college website for the ready reference.
- f) Organized guest lectures on latest Technology

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- Inauguration of Microsoft Innovation Centre
- Set up of e-Yantra lab
- National Conferences and Seminars are organized under seminar symposia scheme of DST, Govt. of India
- FDPs organized by AICTE, IIT Bombay, IIT Kharagpur, NITTTR Chandigarh
- Many faculties presented paper in International Conference
- Awareness camp for students is organized by Entrepreneurship Development Cell.
- Students published papers in International Research Journals.
- Students enrolled for International Level on-line certification courses.
- Students register for NPTEL courses and get certificates from IIT Madras.
- Aptitude classes are organized for final year students for better placements.
- Students are encouraged for attending many conferences & seminar
- More class rooms/ tutorial rooms constructed.

7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)

- Introductory classes by the experts as a bridge to enter into the learning
- The projects work starts 2nd year onwards.
- Online assignments
- Parents Teacher Meeting

***Provide the details in annexure (annexure need to be numbered as i, ii,iii)**

7.4 Contribution to environmental awareness / protection

- Encouraged the students to submit the assignments online.
- The college is working towards implementing a completely paperless policy.
- Celebration of World Environment Day
- Planted more than 100 trees in the campus.

- Cleanliness Awareness Program conducted as a part of Swachh Bharat Mission
- Faculty members attended “Delhi Environment Summit 2015” organized by Confederation of Indian Industry (CII) on World Environment Day: “Towards a Clean and Green Society” at The Leela Palace Hotel, New Delhi.
- One faculty member along with two students attended the conference on Health & Safety Aspects of Mobile Telecommunications at The Ashoka Hotel, New Delhi organized by ASSOCHAM.
- One faculty member attended a one-day International Conference on “Creating a Second Green Revolution in India” held at Hotel The Lalit New Delhi.
- One faculty member attended “Regional Social Enterprise Ecosystems in India” at WWF India Auditorium, Lodhi Estate, New Delhi , organized by Villgro and Ananta Center.
- One faculty member attended the conference “Bridging the Gap: Building Ecosystem for Inclusive Value Creation” at Indian Habitat Centre, New Delhi, organized by Confederation of Indian Industry (CII).
- Four students attended the seminar on “Water Risk and Water Stewardship” organized by FICCI at Tansen Marg, New Delhi.
- Organized Cleanliness Awareness Program as a part of “Swachh Bharat Mission” 2014. The program was an initiated by NSS Centre
- Three NSS volunteers attended A Youth Leadership Training Camp held organized by NSS unit of Maharishi Dayanand University Rohtak.
- The 1st International Yoga Day on 21st June 2015 at Boat Club, India Gate, New Delhi was organized by Ministry of Youth Affairs & Sports Government of India. More than 400 NSS volunteers along with 16 faculty coordinators of college participated in the event.
- Faculty member and students attended an IEEE Event “EARTH ACTIVITY DAY” at Select City Walk, Saket . This was the 3rd Earth day organized by IEEE Delhi Section. The motive of the event was to serve the mother earth. There was emphasis on “how to serve our planet” to promote the thinking of preserving the planet by controlling various things around us.
- Two faculty members along with 48 students attended National Conference and Annual Session 2015 at New Delhi. The theme of the conference was “Building India: A Shared Responsibility” and organized by Confederation of Indian Industry (CII).

- SWACHH BHARAT ABHIYAAN is an initiative by the Honourable Prime Minister of India, Swachh Bharat, Swasth Bharat is an initiative to create awareness among the general public of the necessity for cleanliness and healthy living. The NSS Unit of college carried out an awareness drive at the adopted village Patali, Haryana.
- Swachh Bharat Abhiyan (Clean India Campaign) was being executed by the MSA's and MSP under the guidance of Microsoft Faculty Coordinator. The Ministry of Information & Broadcasting (I&B) initiated an animation and video contest on the theme of 'Swachh Bharat'.
- Four faculty members attended the talk on "GREEN - THE COLOUR OF GROWTH: The Business Case for Climate Action" by Mr. Richard Verma (United States Ambassador to India at Taj Palace Hotel, Mumtaz Hall, New Delhi organized as part of the Climate Education Week.
- One faculty received the Best Essay Award in the Essay Writing Competition event for his essay on "No more Degradation of Environment". Haryana Vigyan Manch and Haryana Gyan Vigyan Samity celebrated the National Science Day at Rohtak.
- A group of ten NSS student volunteers along with NSS Program Officer attended a ten day Adventure Camp organized and sponsored by Ministry of Youth Affairs & Sports, NSS Regional Centre New Delhi.
- Fifteen NSS Volunteers went to Jawaharlal Nehru stadium's Sai auditorium on account of volunteering for the event organized by the central ministry of youth affairs and the state sports ministries. The conference mainly emphasized on financing sports, youth and cultural affairs of different states in India. The state commerce and industry ministers along with the ministers of youth affairs represented the issues related to youth and sports of their states.
- Four NSS Volunteers participated in the twelve-day NSS Mega Camp in Assam. Ministry of Youth Affairs and Sports and the NSS regional centre, organized the camp.
- On the occasion of International Volunteers Day-2014 at Kudsia Ghat, New Delhi. 24 NSS volunteers along with the NSS Program Officer and two faculty coordinators participated in the Clean Up River Drive named as "Yamuna Shramdaan".
- Twelve students participated as NSS volunteers at the event The NSS MEGA CAMP 2014 organized by the Ministry of Youth Affairs And Sports and the NSS regional centre, Jaipur.
- Four faculty members attended a technical talk on "New Technologies in Solar Photo-Voltaic and Software Applications", organized by CSI Delhi Chapter.
- Two faculty members attended a conference on "Smart Urbanization" at Hotel Leela Ambience, Gurgaon, organised by Confederation of Indian Economy (CII).

- One faculty member attended a workshop on Energy Efficiency Technology for MSMEs at CII headquarters, New Delhi organised by Ministry of Micro, Small and Medium Enterprises (MSME), Government of India and Confederation of Indian Industry (CII).
- One faculty member along with three students attended the “2nd R. K. Vir Memorial Lecture (Theme: Solar Energy: opportunities in Rail sector)” at Engineers Bhawan, New Delhi .The event was organized by Institution of Railway Electrical Engineers (IREE), The Institution of Engineering and Technology (IET) Delhi Local Network and Institution of Electrical & Electronics Engineers (IEEE).
- Two faculty members attended an Advance Training Programme on “Smart Grid Technology”, organized by India Smart Grid Forum at Jaypee Siddartha Hotel, New Delhi. The objective of the program was to disseminate the knowledge of “Grid network stabilization solution of Renewable Energy Integration” through case studies, discussion and field visits.
- Two faculty members along with five students attended the 28th Foundation Day of Technology Information, Forecasting and Assessment Council (TIFAC), New Delhi.

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

SWOT Analysis:

Strengths:

- College is accredited by NBA , NAAC , Permanent Affiliation with Maharishi Dayanand University and certified by ISO.
- Students hold top ranks in University exams (In the last 3 years’ students have grabbed maximum University ranks in M. D. University).
- Development of students through various programs like online certifications (International level).
- Well-equipped laboratories & digitally enabled classrooms for effective learning.
- Qualified & experienced faculty.
- Fully computerised library
- Having good number of placement.
- More linkages with Industry and National/International Research institutions.

SWOT Analysis:

Weaknesses

- Even though good number of research projects is undertaken by the institute, there is unequal contribution from all the departments.
- No Consultancy received against projects.

SWOT Analysis:

Opportunities

- Entrepreneur Development Cell. The growing interface between entrepreneurship and education is bridging the chasms which make entrepreneurship a distant career option. Entrepreneur Development Cell of the college provides awareness to students about entrepreneurship and its scope for young technocrats.
- Consultancy development Centre. CDC is an Autonomous Institution of the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India set up for promotion, development and strengthening of consultancy skills and capabilities in the country including enhancement of export of consultancy and professional services. College in collaboration with CDC deliver certificate course of CDC in Technical Consulting & Management.
- Industrial Visit- Students are provided industrial exposure to give practical knowledge.
- Student Club- Various activities under different clubs are introduced to channelize the talents of students like Google Developer Club, Photography Club, Robotics and Adventure Club, IEA Club

SWOT Analysis:

Threats

- To equip the students to meet the standards expected by the engineering professionals.
- Motivating students to seek long-term benefits by going for core job placements rather than short term monetary benefits in software-related jobs.

8. Plans of institution for next year

Academic:-

- a) Sustain the improvements achieved till date and make further improvements
- b) Encourage faculty to go abroad for joint research, exchange of academic & publication, exchange of faculty members for research, discussion and lectures.
- c) National Conference will be organized
- d) More industrial visits for students in good companies will be organized.
- e) More in-house AICTE/ UGC/ IEEE/ ISTE/ CSI Sponsored Seminars and Workshops.
- f) Encourage faculty to enrol for Ph.D
- g) More MOUs with leading Industries.

Development/Improvement in Students Performance:-

- a) Extra classes & counselling for weak students at more minute level to improve the results.
- b) International Level on-line certification courses for all students.
- c) More use of ICT in Teaching Learning
- d) Organize summer / winter school at college camp in semester break
- e) Close mentoring of final year students for better placements.
- f) Publish more papers in good research Journals
- g) Encouraging students for participation in Seminars/Conferences
- h) Promote close alumni interaction with current students.
- i) Active student participation in EDC
- j) Increase participation of student creative activities/ clubs.

Facilities:-

- a. New lab set up for Civil Engineering & EEE Branch
- b. New Classrooms & Tutorial rooms will be constructed

Sports Facilities: - More sport equipment's (indoor & outdoor shall be added.)

Name Dr. SRI KRISHAN YADAV

SACHIN KUMAR

Signature of the Coordinator, IQAC

Name

Prof (Dr.) B.M.R. Prasad

Signature of the Chairperson, IQAC

Principal

**Dronacharya College of Engg
Farukh Nagar-12350**

Annexure A

Abbreviations:

| | | |
|------|---|--|
| CAS | - | Career Advanced Scheme |
| CAT | - | Common Admission Test |
| CBCS | - | Choice Based Credit System |
| CE | - | Centre for Excellence |
| COP | - | Career Oriented Programme |
| CPE | - | College with Potential for Excellence |
| DPE | - | Department with Potential for Excellence |
| GATE | - | Graduate Aptitude Test |
| NET | - | National Eligibility Test |
| PEI | - | Physical Education Institution |
| SAP | - | Special Assistance Programme |
| SF | - | Self Financing |
| SLET | - | State Level Eligibility Test |
| TEI | - | Teacher Education Institution |
| UPE | - | University with Potential Excellence |
| UPSC | - | Union Public Service Commission |
