

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: dean@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/AQAR2017

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) 2016-17

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 2015-16 _____ (19/09/2016)
- ii. AQAR 2014-15 _____ (21/08/2015)
- iii. AQAR 2013-14 _____ (12/08/2014)
- iv. 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 No

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	<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="1"/>
2.9 Total No. of members	<input type="text" value="20"/>
2.10 No. of IQAC meetings held	<input type="text" value="2"/>

2.11 No. of meetings with various stakeholders:	No.	<input type="text" value="6"/>	Faculty	<input type="text" value="1"/>
	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="1"/>
	Non-Teaching Staff	Students	Alumni	Others

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

Communication and Computing Systems, Electric Power System, Artificial Neural Network and Fuzzy Logic, Network and Cyber Security , Cyber Crime and Forensic Tools, Life Skills , Preparing Students for Job Interviews, Virtual Lab & its Impact, Android App Development , Data Science, Yoga, Entrepreneurship Development Program, Role of Youth in Making Digital India, Robotics Automation & Advanced Embedded Systems , E-Myths, Career Management, Andro – Engine, CISCO Networking, New Technologies, Interview Skills, Advanced Bridge Design Analysis And Fabrication, Career options after Engineering, Invention Cycle, IoT using Raspberry Pi, Design of Hydraulic Structure, Signal Processing, Lean Start-up Machine, Geospatial Technology, Fourier Series - Mathematical Methods, Moving Loads and Influence Lines - Analysis of Structures, Classification of Signals and System - Introduction to Signals and Systems, Vibration - Theory of Vibration, Thermodynamics, Multi variable Calculus, Strength of Materials, Signals and System, Compiler Design, Linear Data Structure, Shear Force, Transformer - Electrical Machines, Software Process and Management - Software Engineering, Operator Overloading - Object Oriented Programming, Public Key Cryptography - Information Security and Cryptography, Highway Geometric Design - Transportation Engineering, Design of Reinforced Concrete Beams - Design of concrete structures, Natural Convection, Boiling and Condensation - Convection Heat Transfer, Electrochemistry and its Applications - Engineering Chemistry, Gradient Divergence and Curl - Engineering Physics, Fundamentals of Laplace Transform - Engineering Mathematics, Digital System Design - Digital Electronics, Differential Amplifiers - Analog Electronic Circuits, Routing Algorithms - Computer Network, Solar DC, Spectroscopy and Applications - Engineering Chemistry, Gradient Divergence and Curl - Engineering Physics, Advance Programming , Advanced Design Software

2.14 Significant Activities and contributions made by IQAC:

- Career oriented technical training programmes for students to improve their technical acquaintance
- ICT-based teaching-learning as well as ICT enabled Administration process is promoted.
- Students are encouraged to apply their innovative projects for technical competitions.
- Campus placements process is strengthening to provide job opportunities for the students.
- Regular Interaction with class coordinators of every department for maintaining and sustaining quality education.
- Lab Equipment's is upgraded to meet with the latest technology across the departments.
- Industrial Visits are organized for students to give practical exposure.
- Development Programmes for Staff, Faculty and Students
- Clubs are functionally active across all departments.
- 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>
To organize International Conference	Organized International Conference on Communication and Computing Systems (ICCCS 2016)
To develop Labs as a nodal centre of Virtual Lab, IIT Delhi.	Set up lab on control system for virtual lab, IIT Delhi under the National Mission on Education through ICT (NMEICT), supported by MHRD, Govt. of India.
To organize workshop & FDPs on virtual lab & its impact	Organized four workshop & FDP on "Virtual Labs and its impact" in association with IIT Delhi.
To initiate more student chapters in campus	Establishment of Student Chapter of American Society of Civil Engineers (ASCE)
More industrial visits for students in good	Industrial Visits to CSIR- CEERI, Centre of e-

core companies	Governance, National Institute of Solar Energy, Gwal Pahari , Huawei, Hero Motor Corp, Maruti Suzuki, Minda, V R ENGINEERS, Brahma Kumaris Om Shanti Retreat Center, Borakala, Network Bulls, Nano Electrotech Pvt. Ltd., Networkers Guru, ,Automation Engineers A.B. Pvt. Ltd., Dudhmanagar Dairy (Amul), Manesar, Gurgaon, Power Grid Corporation of India Limited, Road Over Bridge, Vulcan Forge Pvt. Ltd., IMT Manesar”
More MOUs with leading Industries.	New MOUs are signed with industries
Extra classes & counselling for weak students at more minute level to improve the results.	Extra classes for academically weak students are conducted.
Encourage students to participate in various competitions.	<p>Students won many prizes in technical competitions.</p> <ul style="list-style-type: none"> - Won 3rd position in Smart India Hackathon 2017, MHRD Initiative to Promote innovation. - Won 1st prize in "The Young Entrepreneurs Panel" organized by Faridabad Industries Association (FIA) - 9 out of 30 teams were selected as national finalists in Global competition - Imagine Cup organized by Microsoft. - Won 2nd position for developing an Android application titled Space Survivor in India@75 Hackathon organized by CII. - Project “IOT Based Health Monitoring System” was selected in Top 27 Projects of all over India during FAER-McAfee Scholar Award Program 2016-17 at Bangalore. - Won 1st position in project competition “Young Scientist” organized by IIT Ropar. - Won 2nd position in NES innovations Awards 2017 at Pune. - The Project titled “Smart Farming System” was selected as Best B.Tech Project by ISTE-

	<p>BBSBEC National Award 2016</p> <ul style="list-style-type: none"> - Project Titled “Advance Medicine Dispensary” was selected in Top Ten Projects of India by Space kidz “i4India 2017” at Russian Centre for Science and Culture, Chennai.
Close mentoring of final year students for better placements.	<p>Aptitude classes were organized for final year students for better placements.</p> <p>Nine sessions were organized on carrier guidance & placements</p>
Promote close alumni interaction with current students.	Conducted interactive sessions for students with Alumni
Increase participation of student creative activities/ clubs.	<ul style="list-style-type: none"> - SAEINDIA Collegiate Club organized National Student Convention. - CSI Student Chapter organized the CSI State Student Convention (SSC - 2017) - IEEE Student chapter organized Guest Lectures & workshops
To conduct summer schools internship on latest technology at college campus	<ul style="list-style-type: none"> - Organized Summer School on Android App Development. - Organized Summer School on Data Science

*** Attach the Academic Calendar of the year as Annexure.**

2.15 Whether the AQAR was placed in statutory body Yes No

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

1. Curricular Aspects

1.1 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				67
Others				8
Total	12	0	12	75

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.

Amendments were done in syllabus by M.D. University Rohtak and F Scheme become effective from 2016-17 academic session.

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

N.A

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
257	182	51	24	0

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
20	12	18	15	10	10	0	0	48	37

2.4 No. of Guest and Visiting faculty and Temporary faculty

00	00	Nil
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/	57	19	NIL
Presented papers	25	09	NIL
Resource Persons	04	05	NIL

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

Virtual Labs, International Level Certification courses, Spoken Tutorial (workshops, certifications) for first year students, Use of NPTEL videos, On Line assignments, Power point presentation of each subject is available on website

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

197

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.	650	22.46 %	42.92%	5.69 %	NIL	71.08 %

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

Frequent meetings with the academic committee of the college is convened for assessment & analysis. Suggestions for the teaching & learning processes are implemented A mechanism is

evolved to closely monitor the process adopted and progress is evaluated by various parameters on comparative basis.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	71
UGC – Faculty Improvement Programme	02
HRD programmes	27
Orientation programmes	04
Faculty exchange programme	04
Staff training conducted by the university	02
Staff training conducted by other institutions	13
Summer / Winter schools, Workshops, etc.	29
Others(Training Programme by CDC)	04

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	86	5	6	Nil
Technical Staff	39	4	5	Nil

Criterion – III

3. Research, Consultancy and Extension

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

- Applied for research projects funding from agencies like DST, AICTE
- Faculty members are motivated to attend FDPs, STTPs for enhancement of knowledge in advance areas.
- Encouraged faculty member to register for Ph.D.
- Project exhibition conducted within the department for students to display their prototypes and it was evaluated by external experts
- Students are encouraged to write research papers for various International Journals.
- Students are encouraged to file patents & copyrights

- Students are motivated to participate in National level/State level project competition.
- A workshop was organized by CII & MSME at MSME-DI, New Delhi pertaining to “IPR and Commercialisation of Technology for Start -Ups and Incubatees”. Faculty and students attended the programme.
- College motivates students for attending Summer School at national level institutions. Three students were being selected for summer school in IISC Bangalore organized by CSA undergraduate department.
- SAEINDIA Collegiate Club in association with SAEINDIA Northern Section organized National Student Convention 2017. The event in the convention was Project Competition, Paper Presentation, Poster Presentation and Guest lectures by Industrial Experts.
- Faculty with two students attended a workshop on “Research Methodology” at PGI, Gwalior.
- Confederation of Indian Industry (CII) in partnership with Dr. APJ Abdul Kalam International Foundation organized the 1st Dr. APJ Abdul Kalam Memorial Lecture and a session on Technology Trends and Future Research Directions for India at Taj Mahal Hotel, New Delhi. Six students attended the lecture.
- MIC, Shaanxi hosted Microsoft Innovation Centre (MIC) Global Summit - 2016 organized by Microsoft (China) Pvt. Ltd at Xian Sheraton, Xi’an, Shaanxi, People’s Republic of China. One student attended the Summit.
- Ministry of Human Resource Development, Govt. of India launched Smart India Hackathon 2017 at Teen Murti Bhawan. Three faculty members attended the program.
- 27th International Conference was held at Hotel Suncourt Corporate, New Delhi by IAARHIES governed by the society for academic research. 1 Student attended the conference.
- Three students presented the paper in the 3rd International Conference on “Recent Developments in Science, Engineering and Technology – ‘REDSET-2016’”
- The Grand Finale of Smart India Hackathon-2017 was hosted on 1st & 2nd April 2017. Two teams were selected to present their solution to the problems under the respective ministries:
 - First team “Detect & Direct” comprising of six students under Ministry for Development of North Eastern Region (DoNER) at GIMT, Guwahati.

- Second team “Mind Bloggers” comprising of six students under Ministry of Environment, Forest & Climate Change (MoEFCC) at Sri Krishna College of Engineering, Coimbatore.
- Natarajan Education Society (NES) organized the NES Innovation Award Workshop - 2017 at Natarajan Education Society, Viman Nagar, Pune on 9th January 2017. Eight Team were selected in top 50 teams from all over the country.
- The Innovation Festival was celebrated at National Science Centre, New Delhi. Faculty members along with 13 students presented their project in the Innovation Fair Exhibition.
- Three students along with faculty member participated in "i4India 2017" organized by SpaceKidz India at the Russian Centre for Science and Culture, Chennai.
- Microsoft Innovation Centre organized Invention Cycle Workshop. 53 students attended the workshop.
- National Level Project Competition “VIVID 2017” for the Engineering students was organized by SSN College of Engineering, Chennai. Six students participated in the competition.
- IIT Ropar organized a competition “Young Scientist” during its annual techno - management festival Advitiya 2017. The competition was organized to provide a competitive platform for students in the field of development. Four students team secured first position in the competition.
- Twelve students presented their research papers in an international conference “IEEE IndiaCom 2017”.
- Microsoft, India organized the Fifteenth edition of the Global competition - Imagine Cup at New Delhi, Nine Teams out of Twenty seven National finalist’s were from college.
- Seven students attended a workshop on "Technical Paper Writing and Publishing" organized by Institute of Electrical and Electronics Engineers (IEEE) at Ambedkar Institute of Advanced Communication Technologies and Research.
- The project "IoT Based Health Monitoring System" was selected for presentation and demonstration during the "McAfee Scholar Award Program 2016 - 17" organized by the Foundation for Advancement of Education and Research (FAER). The event held at M.S. Ramaiah Institute of Technology, Bengaluru.

- Faculty presented the research paper Molecular Polarizability and thermodynamic parameters of 2-Chloro-5-(tri fluoromethyl) pyridine in 19th International Conference of International Academy of Physical Sciences (CONIAPS-XIX).
- Faculty presented the research paper in Silver Jubilee International Conference on “Interdisciplinary Mathematics, Statistics and Computational Techniques (IMSCT 2016 - FIM XXV)” of Forum for Interdisciplinary Mathematics (FIM) organized by Department of Mathematics and Statistics, Manipal University Jaipur.
- Two faculty members presented the research paper in International Conference on Computational Mathematics & Statistics (ICCMS - 2017) organized by Department of Mathematics & Statistics, Banasthali University, India and co-organized by Department of Mathematics, University Putra Malaysia.
- Two faculty members presented their research paper in the National Conference on "Statistics and optimization Techniques NCSOT 2017" in conjunction with 2nd convention of Indian Association for Reliability and Statistics (CIARS - 2017) was organized by Department of Statistics, M.D.U. Rohtak.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number			1	
Outlay in Rs. Lakhs			2465892/-	

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number			11	
Outlay in Rs. Lakhs			595479/-	

3.4 Details on research publications

	International	National	Others
Peer Review Journals	35	04	
Non-Peer Review Journals	21	06	
e-Journals	92	03	
Conference proceedings	38	01	

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	2016-18	DST	2465892/-	2465892/-
Minor Projects	2016-17	DST, SERB, MHRD	595479/-	595479/-
Interdisciplinary Projects				
Industry sponsored				
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 Autonomy CPE DBT Star Scheme

NSPIRE CE ny Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	1		2		
Sponsoring agencies	SERB		CSI, SAE		

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	NIL
	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
15		4	4	2		5

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

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

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

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 State level
National level International level

3.24 No. of Awards won in NCC: **Nil**

University level
National level State level
International level

3.25 No. of Extension activities organized

University forum College forum
NCC NSS Any other

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

- Organized “International Conference on Communication and Computing Systems (ICCCS 2016)” under seminar symposia scheme of DST, Govt. of India
- Five - day short term course on “Artificial Neural Network and Fuzzy Logic” was conducted in association with NITTTR, Chandigarh MHRD, Govt. of India through ICT.
- Five - day short term course on "Cyber Crime and Forensic Tools” was conducted in association with NITTTR, Chandigarh MHRD, Govt. of India through ICT.
- ICT Training Programme on Coaching of Teachers in Life Skills was conducted in association with NITTTR, Chandigarh MHRD, Govt. of India.
- ICT workshop - III on “Preparing Students for Job Interviews" organized by NITTTR, Chandigarh MHRD, Govt. of India.
- ICT workshop - II on “Preparing Students for Job Interviews" was conducted in association with NITTTR, Chandigarh MHRD, Govt. of India.
- ICT workshop on “Preparing Students for Job Interviews" was conducted in association with NITTTR, Chandigarh MHRD, Govt. of India.
- One - Week Faculty Development Programme on “Network and Cyber Security” was conducted in association with NITTTR, Chandigarh MHRD, Govt. of India.
- One - day workshop on “Virtual Labs was conducted in association with IIT Delhi
- Online panel discussion on “Virtual Lab and its Impact” was conducted in association with IIT Delhi, under the aegis of National Mission on Education through Information and Communication Technology (NMEICT)
- QEEE sessions were conducted by IIT, Madras under D2S (Direct to Student) Program at college campus through ICT.
- Student attended Microsoft Innovation Centre (MIC) Global Summit - 2016 organized by Microsoft (China) Pvt. Ltd at Xian Sheraton, Xi’an, Shaanxi, People ’s Republic of China
- Two faculty members attended Tech Summit 2016 organized by Microsoft Innovation Center, Hainan at Hotel Langham, Haikou, China. The event focused on the policy "All the Way along the Way"
- SAEINDIA Collegiate Club in association with SAEINDIA Northern Section organized National Student Convention 2017. The event in the convention was Project Competition, Paper Presentation, Poster Presentation and Guest lectures by Industrial Experts.

- Establishment of Student Chapter of American Society of Civil Engineers (ASCE)
- NSS Wing of DCE celebrate 3rd International Yoga Day
- Summer School was organized on Android App Development.
- Summer School was organized on Data Science.
- Participation in Run for Rio - Khelo or Jiyo organised by Sports Authority of India, Ministry of Youth Affairs and Sports.
- Organized Alumni Interaction Program
- Organized two Entrepreneurship Awareness Camp in association with EDI Ahmedabad under DST -NIMAT Scheme
- Mock Placement Preparatory Sessions conducted by Aon, Nucleus Software & Channelplay.
- International Forum for Excellence in Higher Education (IFEHE) conducted National Creativity Aptitude Test (NCAT) 2017 at college.
- Industrial Visits to CSIR- CEERI, Centre of e-Governance, National Institute of Solar Energy, Gwal Pahari , Huawei, Hero Motor Corp, Maruti Suzuki, Minda, V R ENGINEERS, Brahma Kumaris Om Shanti Retreat Center, Borakala, Network Bulls, Nano Electrotech Pvt. Ltd., Networkers Guru, , Automation Engineers A.B. Pvt. Ltd., Dudhmansagar Dairy (Amul), Manesar, Gurgaon, Power Grid Corporation of India Limited, Road Over Bridge, Vulcan Forge Pvt. Ltd., IMT Manesar”
- Three days faculty development program on “Robotics Automation & Advanced Embedded Systems”
- Three days faculty development program on “Advance Programming”.
- Three days faculty development program on “Advanced Design Software” .
- CSI Student Chapter organized the CSI State Student Convention (SSC - 2017)
- Workshop on E-Myths conducted by Footsteps at college campus.
- Entrepreneurship Development Cell organized guest lecture on Entrepreneurship. The speaker at the event was Mr. Salil Agrawal (Alumni of IIM Ahmedabad)
- Computer Society of India (CSI) Student Chapter and KARD India, Delhi jointly organized workshop on “Career Management”
- Workshop on Andro – Engine was conducted by Techtron Technologies in association with the IIT Hyderabad.

- IEEE Student Chapter organized guest lecture on “Basics of Network Theory”
- Computer Society of India (CSI) Student Chapter and Network Bulls Gurgaon jointly organized workshop on “CISCO Networking”.
- CSI Chapter in collaboration with NIIT Ltd. organized guest lecture on “Adopting New Technologies”
- Guest Lecture on “Interview Skills” was conducted in association with Transformeon, Gurgaon.
- A live streaming session was conducted by Google on Special Problem Solving Session on Google APAC.
- One Day Faculty Development Programme on “Virtual Lab” was organized in association with IIT, Delhi.
- Workshop on “Advanced Bridge Design Analysis And Fabrication” was organized by Bharat Auto Solutions & SPM Hydraulics
- SAE Collegiate Club in association with Engineers Academy Pvt. Ltd. organized a seminar on "Career options after Engineering"
- Workshop on “Python” conducted in association with EDC-IIT Delhi under the banner of UTKRAANTI-2017
- Workshop on “Virtual Labs” was organized in association with IIT, Delhi.
- Microsoft Innovation Centre organized “Invention Cycle Workshop”
- Organized Special programme to celebrate the 22nd International Women’s Day
- Annual Sports Meet 2017
- CSI Student Chapter organized a guest lecture on “Introduction to IoT using Raspberry Pi”.
- AGI (Association of Geospatial Industries) Chapter organized a workshop on “Design of Hydraulic Structure”
- IEEE Student Chapter organized a guest lecture on “Introduction to Signal Processing”
- Microsoft Innovation Centre organized a workshop on “ Lean Startup Machine “
- AGI Chapter organized one day workshop on “Geospatial Technology”
- Celebrated Martyrs Day- Shaheedi Diwas
- Celebrated Republic Day

- Celebrated Independence Day
- Celebrated Governance Day
- “Blood Donation Camp” organized in association with Rotary Club
- Ten days NSS Integration Camp at Pong Dam, Himachal Pradesh
- 7 Days NSS Special Camp on theme “Role of Youth in Making Digital India”

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	59	-	Institution	59
Laboratories	83	-	Institution	83
Seminar Halls	9	-	Institution	9
No. of important equipment’s purchased (≥ 1-0 lakh) during the current year.			Institution	
Value of the equipment purchased during the year (Rs. in Lakhs)	1.57		Institution	
Others	12.70		Institution	

4.2 Computerization of administration and library

- Payroll is completely automated.
- College is using DCORE software package to manage teaching, learning, students details, academic performance of the students and staff details
- Library is using e-Granthalaya Software and is fully computerized
- Membership of N-List is renewed
- DELNET Membership is renewed
- Membership of British Council of India is renewed

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	36221	7770859	-	-	36221	7770859
Reference Books	13035	1393847	-	-	13035	1393847
e-Books	97000	5000	-	-	97000	5000
Journals	150	1128731	-	-	150	1128731
e-Journals	8415	85590	-	-	8415	85590
Digital Database	-	-	-	-	-	-
CD & Video	-	-	-	-	-	-
Others (specify)	-	-	-	-	-	-

4.4 Technology up gradation (overall)

	Total Computer s	Compute r Labs	Internet	Browsin g Centres	Compute r Centres	Offic e	Depart - ments	Othe rs
Existin g 2015- 16	1011	11	70 MBPS		1	1	8	
Added 2016- 17	NIL		NIL		NIL	NIL		
Total	1011	11	70 MBPS		1	1	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
- College is having 70 MBPS bandwidth for internet usage.
- NPTEL videos are available at college library
- Industrial Visit to Centre of e-Governance, New Delhi

- Four faculty members attended a two day Training Programme on ‘IT consulting’, organized by Consultancy Development Centre, New Delhi at India Habitat Centre, New Delhi.
- Faculty member attended the workshop on “Medical Imaging Techniques, Post Processing and Clinical Applications” organized by Centre for Biomedical Engineering, Indian Institute of Technology, Delhi (IITD)
- National Workshop on Open Source Technology for Library Automation & Content Management sponsored by The Indian Council of Social Science Research (ICSSR), Govt. of India, New Delhi held at DIT University, Dehradun, Uttarakhand. Librarian attended the workshop.
- Faculty member attended 3 - days workshop on “Virtual Labs Development” organized by Nodal Center, at Vidyalankar Institute of Technology (VIT), Mumbai in association with India Institute of Technology (IIT, Bombay).
- Faculty member attended the FDP on “The Image Processing and Machine Learning for Pattern Recognition”, organized by UIET, Punjab University, sponsored by TEQIP – III.
- Faculty member attended Instructor Training Program CCNA 1&2 (Routing & Switching) held at Cisco Networking Academy, Instructor Training Centre, Amrita University, Coimbatore.
- Faculty member attended the 5-day workshop on “Artificial Intelligence in Engineering Applications” organized at NSIT, Delhi.
- Global Initiative of Academic Networks (GIAN) organized a short term course on Spatial Data Analytics at School of computer and Systems Science, JNU New Delhi. Two Faculty members attended the short term course.
- NITTTR, Chandigarh conducted a five - day short term course on "Cyber Crime and Forensic Tools” under the National Mission on Education through ICT (NMEICT) at college campus. 23 Faculty members & staffs attended the short term course.
- Faculty member attended a five day short term course (STC) on “R Programming” conducted by Computer science Department, NITTTR Chandigarh.
- NITTTR, Chandigarh conducted a five - day short term course on “Artificial Neural Network and Fuzzy Logic” under the National Mission on Education through ICT (NMEICT) at college campus. Twenty - two faculty members attended the STC.

- Faculty member attended one week coordinators workshop on " CMOS, Mixed Signal and Radio Frequency VLSI Design" under the National Mission on Education through ICT (NMEICT), supported by MHRD, Govt. of India organized by IIT Kharagpur .
- Thirteen faculty members attended two week ISTE STTP on" CMOS, Mixed Signal and Radio Frequency VLSI Design" under the National Mission on Education through ICT (NMEICT), supported by MHRD, Govt. of India and organized by IIT Kharagpur .

4.6 Amount spent on maintenance in lakhs :

i) ICT	16.43
ii) Campus Infrastructure and facilities	41.47
iii) Equipments	3.27
iv) Others	31.91
Total :	93.08

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 and website.
- E-mail to all students regarding various student support services.
- SMS to all students regarding various student support services.
- The college has a Facebook page where the information about latest activities is updated.
- Marks of internal sessional are displayed on the college website.
- In case of any student related problem the parents are directly contacted.
- Mailer to all students regarding competitions & Call for papers.

5.2 Efforts made by the institution for tracking the progression

- Online Assignments
- Project competitions
- Detailed analysis of sessional examination is being done at department level and corrective actions are initiated wherever required.
- Conducting extra classes for up gradation of academically weak students
- Attendance record of every individual student is shared to parents through SMS everyday.

5.3 (a) Total Number of students

U. G.	P. G.	Ph. D.	Others
1922	11	NIL	NIL

(b) No. of students outside the state 1251

(c) No. of international students NIL

No	%
1625	84.41

Men

No	%
308	15.59

Women

Last Year						This Year					
General	SC	S T	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1543	98	0	688	0	2329	1306	78		549		1933

Demand ratio

Dropout % 2.62

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

- Organize GATE preparation classes for pre-final and final year students
- Expert from Gateforum, visited the campus to make students aware about "Indian Engineering Olympiad (IEO - 2017)"
- National Creativity Aptitude Test (NCAT) 2017 is organized by International Forum for Excellence in Higher Education (IFEHE) at college campus.

No. of students beneficiaries

1194

5.5 No. of students qualified in these examinations

NET	<input type="text"/>	SET/SLET	<input type="text"/>	GATE	<input type="text" value="10"/>	CAT	<input type="text" value="2"/>
IAS/IPS etc	<input type="text"/>	State PSC	<input type="text"/>	UPSC	<input type="text"/>	Others	<input type="text" value="22"/>

5.6 Details of student counselling and career guidance

- Counselling of final year students is being done at a very minute level.
- Career guidance cell guides students about various options after B. Tech
- Organized an expert session on “Career Opportunities in Indian Air Force” for final year students of all the branches.
- Guest Lecture on “Interview Skills” was conducted by Transformeon, Gurgaon at college campus.
- Faculty member attended a meeting on Focused Discussion Regarding Making Graduates Job Ready held at AICTE Auditorium, Nelson Mandela Marg, Vasant Kunj, New Delhi.
- Mock Placement Preparatory Session for the Final Year students was conducted by AON, Nucleus Software & Channelplay at college campus.

- Three workshops on “Preparing Students for Job Interviews” were organized in collaboration with NITTTR Chandigarh through ICT.
- KARD India, Delhi conducted a workshop on “Career Management” at college campus.
- One day Pilot Programme on the topic “College to Corporate” was organized by IIT Bombay through ICT.
- Conducted AMCAT Assessment for final Year Students.
- Conducted Cocube Diagnostic Assessment for final Year Students.
- Engineers Academy Pvt. Ltd. conducted a seminar on “Career options after Engineering” at college campus.

No. of students benefitted

670

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
133	425	209	12

5.8 Details of gender sensitization programmes

- Microsoft Innovation Centre organized a special programme to celebrate the 22nd International Women’s Day.
- Two female faculty members attended Tech Summit 2016 at Hotel Langham, Haikou, China organized by Microsoft Innovation Center, Hainan. The event focused on the policy "All the Way along the Way”.
- Eighty-one girls’ student & four female faculty member attended conference on the theme “Women in Technology”, sponsored by American Express at Taj Palace Hotel, New Delhi.

- One female faculty member attended one week coordinators workshop at IIT Kharagpur on "CMOS, Mixed Signal and Radio Frequency VLSI Design" under the National Mission on Education through ICT (NMEICT), supported by MHRD, Govt. of India.
- One female faculty attended 3-days national workshop on "A Multi-Dimensional Smart Energy Grids Analysis for Indian Scenario" organized at IIT, Mandi
- One female faculty member attended one week coordinators workshop at IIT Kharagpur on "Electric Power System" under the National Mission on Education through ICT (NMEICT), supported by MHRD, Govt. of India.
- One female faculty member set up lab on control system for virtual lab, IIT Delhi under the National Mission on Education through ICT (NMEICT), supported by MHRD, Govt. of India.
- One female faculty member attended the 6th AITMC-AICTE Annual Global Summit 2017 at AICTE Headquarters, VasantKunj, New Delhi.
- One female faculty member (Virtual Lab Nodal Coordinator) attended 3 - days workshop on "Virtual Labs Development" organized by Nodal Center, at Vidyalkar Institute of Technology (VIT), Mumbai in association with India Institute of Technology (IIT, Bombay)
- One female faculty member attended a meeting on "Focused Discussion Regarding Making Graduates Job Ready" held at AICTE Auditorium, Nelson Mandela Marg, Vasnt Kunj, New Delhi.
- One female faculty member attended a one day workshop on "Emerging Technologies in Electronics and Communication" organized by IIIT, Delhi.
- One female faculty member (CSI Head) attended Two-day Annual Academic Conference and awards for Academia TechNext India 2017 organized by Computer Society of India-Mumbai (CSI) in association with FOSSEE and Spoken Tutorial, IIT Bombay at IIT Bombay.
- Girl students participated in 7 Days NSS Special Camp on theme "Role of Youth in Making Digital India".
- Female faculty member is also a coordinator for NSS Programs
- Head of Microsoft Innovation centre is female faculty member.
- Panel discussion on "Women Empowerment" was organized

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	17	9.41
Financial support from government	5	2.23
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.
- Above than University curriculum, NPTEL, Spoken Tutorial & QEEE online certifications done in every semester

6.3.2 Teaching and Learning

- All the class rooms are equipped with LCD Projectors
- High Speed Internet connectivity through Wi-Fi.
- 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

- Interaction between students and faculty members which continues beyond the classrooms.
- Learning beyond curriculum. (NPTEL, QEEE, Spoken Tutorial)
- Remedial classes are held for the students requiring additional support.
- Well-equipped library for both faculty members and students.
- Regular feedback from students to improve teaching and learning methods.
- Faculty members are encouraged to use eLearning resources like NPTEL
- Appraisal of staff performance.
- Online assignments.

6.3.3 Examination and Evaluation

- University exams are conducted by M. D. University Rohtak,
- Spot evaluation centre of M. D. University where answer sheets of university exams are evaluated.
- The practical examination is conducted with internal and external examiners.
- Industrial Project work evaluated through mid-term progress report and also through panel of external examiners.
- Three internal sessional are conducted by the college every semester to judge the performance of the students at various intervals.
- Weak students are counselled and extra classes are organized for those students.
- Student progress report sent thrice a semester to parents.

6.3.4 Research and Development

- College has R&D Lab with latest equipment's.
- Students are encouraged for filing Patents & copyrights
- Final year student has been selected for 6 Months Research Internship at IIT Bombay (Department of Physics) under guidance of Prof. Punit Parmananda between December 2016 and June 2017.
- Organized Annual Project Idea Contest to provide the opportunities to the students to showcase their capabilities.

- The team Detect & Direct won 3rd Position with Cash award of Rs 50,000/- in Smart India Hackathon 2017, an MHRD Initiative to Promote innovation In India under the Ministry of Development of North Eastern Region.
- Hosted an event “ELAN- 2017”, a national level technical festival conducted by IIT Hyderabad in association with Techtron Technologies.
- Faridabad Industries Association (FIA) organized the engineering project competition "The Young Entrepreneurs Panel" at the FIA Headquarters, Faridabad. The Project "Healthcare Monitoring System using Internet of Things" won 1st prize in ECE/EEE Category.
- Microsoft India organized the Fifteenth edition of the Global competition - Imagine Cup at New Delhi, bringing 30 finalists teams together from all over India among which 9 teams were from the college.
- Students won 2nd Position for developing an Android application titled Space Survivor and received a cash prize of Rs.7500 in India@75 Hackathon organised by CII.
- Project “IOT Based Health Monitoring System” was selected in Top 27 Projects of all over India during FAER-McAfee Scholar Award Program 2016-17 at Bangalore.
- Four students team won 1st position in project competition “Young Scientist” organized by IIT Ropar.
- Students won 2nd prize in NES innovations Awards 2017 at Pune for the project titled Electricity Saver and received cash prize of ₹ 30,000.
- The Project titled “Smart Farming System” has been selected as Best B.Tech Project by ISTE-BBSBEC National Award 2016
- Project Titled “Advance Medicine Dispensary” is selected in Top Ten Projects of India by Space kidz “i4India 2017” at Russian Centre for Science and Culture, Chennai.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Library has digital section
- e-Granthalaya Library Management Software to provide built-in Web OPAC interface to publish the library catalog over Internet.
- Remote centre of IIT Bombay for conducting ICT Workshops
- Remote centre of NITTTR Chandigarh for conducting ICT Workshops

- Nodal Centre of IIT Delhi for virtual labs.
- Resource Centre of Spoken Tutorial of IIT Bombay for online certifications
- e-Yantra Lab
- Microsoft Innovation Centre
- Auditorium having capacity of 500 person
- All class rooms, tutorials rooms, seminar halls, laboratories pertaining each department is enabled with ICT tools.
- All labs are having latest machines and software. Class rooms and labs are spacious.

6.3.6 Human Resource Management

College is having its separate human resource department for addressing the grievances of the staff members. The department also takes care of all activities related with human resource management in the college.

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 includes 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

- Microsoft - Microsoft IT Academy
- Pearson- Pearson Testing Centre
- ORACLE - for Oracle IT Academy
- IIT Bombay- Remote Centre for conducting workshops & FDPs
- IIT Kharagpur- Remote Centre for conducting workshops & FDPs
- NPTEL- Local Chapter for Online courses
- IUCEE- Mini course for research methodology
- CISCO - for CISCO Networking Academy

- Huawei - Industrial Visit of students
- Maruti - Industrial Visit of students
- Network Bulls - Industrial Visit of students
- Android ATC - Authorized Training center
- Spoken Tutorial (IIT Bombay) - Resource Centre for Faculty Development Program, Online Certification, Awareness Session
- TCS - MOU for Online Exam
- XLRI- MOU for Online Exam
- Symbiosis- MOU for Online Exam
- iTEP Education India- For English language proficiency test
- Kyushu Institute of Technology, Japan- For Joint research, exchange of academic & publication, exchange of faculty members for research, discussion and lectures.
- 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 Delhi (Virtual Lab)-Nodal Centre for virtual lab
- Bosch India Ltd- Training Programme for Students
- Cocube .- For pre-employment assessment skills & Aptitude Test
- Monster.com India Pvt. Ltd - For online recruitment solution
- Talent Grid- For skill assessment process for placement.
- Nicco Venture Ltd.- For pre-employment assessment skills & Aptitude Test
- Ted consulting- For development and deployment of Cloud based services
- Xentaqsys Technologies PVT LTD - For DCORE software package for managing information across various departments and administration. And for maintaining website
- Franciscan Solutions Pvt. Ltd- For online panel for managing college information & SMS & Mailing services
- 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.
- Indian Institute of Remote Sensing, Indian Space Research Organization (IIRS), Dehradun- to provide training and research in various applications of Remote Sensing , GIS and GPS for natural resource management and associated technologies
- CSIR-CEERI-To promote academic and research cooperation for the enhancement of knowledge and vision.
- Association of Geospatial Industries (AGI)
- American Society of Civil Engineers (ASCE)
- National Entrepreneurship Network (NEN)
- American Centre Library, New Delhi

- British Council Library, New Delhi
- National Science Library, NISCAIR, New Delhi
- Developing Library Network (DELNET), New Delhi
- N-LIST (INFLIBNET), Ahemdabad

6.3.9 Admission of Students

Admission process for all the engineering colleges in Haryana is through on-line process by Haryana State Counselling Society, Govt. of Haryana on the basis of ranking in JEE (Mains) results.

6.4 Welfare schemes for

Teaching	2
Non teaching	4
Students	3

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 for students
- Information about job openings
- Internships for students
- Industrial visits
- Support for projects

6.12 Activities and support from the Parent – Teacher Association

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

6.13 Development programmes for support staff

- Motivational lectures are conducted for non-teaching staff.
- Awards & certificates are also being issued for best performers.
- Skilled Development Programs are conducted for enhancement of their skills.
- Organized a yoga session to celebrate the "3rd International Yoga Day (IYD)" on 21st June 2017.

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

- Water Harvesting System.
- Solar Heating System in hostel for heating water in winter
- Use of plastic items is prohibited in college campus.
- Tree plantation activity was organized by Paryavaran Club of the college.
- All official communication is done through email to save papers
- Recycling of waste papers

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) QEEE an initiative of MHRD – For D2S (Direct to Student) Program. Conducted 27 courses for students.
- b) Spoken Tutorial Certification from IIT Bombay for all the students.
- c) The project work starts from 2nd year onwards.
- d) Industrial visits are organized to give practical exposure.
- e) Summer Internship Training Programme conducted. Topics are based on industrial requirement.
- f) Students are encouraged to participate in Technical competitions.
- g) Students are encouraged for paper presentation & paper publication.
- h) Faculty members are using NPTEL Videos in their classes for better understanding of the concepts.
- i) Facility of virtual labs for the students to give them more practical concept.
- j) Assignments are given on-line
- k) PPT of all lectures, lab manuals are available on college website.

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

- Organized “International Conference on Communication and Computing Systems (ICCCS 2016)”
- Set up lab on control system for virtual lab, IIT Delhi under the National Mission on Education through ICT (NMEICT), supported by MHRD, Govt. of India.
- Organized workshop on “Virtual Labs and its impact” in association with IIT Delhi
- FDP have been organized in collaboration with IIT Bombay, IIT Kharagpur, IIT Madras, NITTTR Chandigarh under the National Mission on Education through ICT (NMEICT), supported by MHRD, Govt. of India
- Establishment of Student Chapter of American Society of Civil Engineers (ASCE)
- Industrial Visits to CSIR- CEERI, Centre of e-Governance, National Institute of Solar Energy, Gwal Pahari , Huawei, Hero Motor Corp, Maruti Suzuki, Minda, V R ENGINEERS, Brahma Kumaris Om Shanti Retreat Center, Borakala, Network Bulls, Nano Electrotech Pvt. Ltd., Networkers Guru, , Automation Engineers A.B. Pvt. Ltd., Dudhmansagar Dairy (Amul), Manesar, Gurgaon, Power Grid Corporation of India Limited, Road Over Bridge, Vulcan Forge Pvt. Ltd., IMT Manesar”
- New MOUs are signed with industries.
- Extra classes for academically weak students are planned in off hours.
- Aptitude classes are organized for final year students for better placements.
- Conducted interactive sessions for students with Alumni
- Students are encouraged for attending many conferences & seminar
- Organized summer school on Android App Development.
- Organized summer school on Data Science.

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

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

7.4 Contribution to environmental awareness / protection

- Encouraging students to submit the assignments online.
- The college is working towards implementing a complete paperless policy.
- Planted trees in the campus.
- Water harvesting system in the college.
- Use of plastic items is prohibited in college

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, certified by ISO and permanent affiliation with Maharishi Dayanand University
- Quality of faculty
- Student environment -learning communities, programs, student organizations and clubs.
- Produce knowledgeable graduates from rural areas with high earning power
- Workforce has a commitment to quality, dedication, positive morale, and work ethic
- Students, faculty, and staff are committed to the college and community
- Close proximity to industries and R&D organizations

SWOT Analysis:

Weaknesses

Not all the staff members have Ph.D

- Limited number of courses offered
- Greater number of behavioural problems in students
- Geographically distant from a large urban area

SWOT Analysis:

Opportunities

- Development of leaders in engineering
- Increase and strengthen internal and external collaborations
- Online certifications course from NPTEL, QEEE. Spoken Tutorials
- Online International Certification courses from Android ATC, C++ institute
- Increased focus on Inter Multi-disciplinary approach for better learning
- Students are provided industrial exposure to give practical knowledge through Industrial visits.

SWOT Analysis:

Threats

- Unchecked student behaviour
- Alternative providers, i.e., on-line universities and community colleges
- Declining interest in technical subjects by students

8. Plans of institution for next year

- FDP: Maximum FDP will be organized
- Industrial Visit: More industrial visit will be conducted to understand practical concept of the topics
- Spic Macay Chapter: For overall development of students and to enhance cultural activities in college, Spic Macay Chapter will be formed
- Placements: College will emphasize to conduct more placement drive of Core Company.
- Chapter Activities: College plan to organize CSI Regional Convention. More activities will be conducted under student chapter.
- Entrepreneurship: Awareness Camp will be organized under Entrepreneurship Cell.

Name Dr. Sri Krishan Yadav.

Saanuud

Signature of the Coordinator, IQAC

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

[Signature]

Signature of the Chairperson, IQAC

Principal
Dronacharya College of Engg.
Farrukh Nagar-123506

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
