

*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/AQAR2016

1.5 Accreditation Details

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

1.6 Date of Establishment of IQAC :

DD/MM/YYYY

05/12/2005

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

2015-16

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 2014-15 \_\_\_\_\_ (21/08/2015)
- ii. AQAR 2013-14 \_\_\_\_\_ (12/08/2014)
- iii. 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-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	Students	Alumni	Others
1	1	2	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

Advancement in Biometrics Trends and its Applications, Development & Advancement in Smart Grid for Solar Renewable Energy, Sustainable Solid Waste Management, Use of ICT in Education for Online and Blended Learning, Technical Communication, Engineering Physics, Environmental Studies, Introduction to Structural Engineering, Climate Change, Disaster Management and Sustainable Development, Matlab And Its Hardware Interface, Embedded C Programming of Microcontrollers, Building Your Own Smart Phone, Research Methodology, Mobile Computing, Student Evaluation: Instructional Planning and Delivery, Vigilance is a Necessary Aid to Governance, Entrepreneurship, Microsoft Azure, Windows 8.1 and Window 10, Cloud Technology, IT Networking, VLSI Design, IBM DB2, 5G Mobile Network Technology, Internet of Things , Database Management System, Career Counselling, VLSI Design and Embedded Systems, Statistical Signal Processing, Android App Development, STAAD PRO, PLC & Automation, Information Security, Green Power in India, Software Testing On Android Platform, Yoga & Swachh Bharat Abhiyan, Mathematics Olympiad, Social Awareness, Digital Electronics, Nitty-Gritty of Processor Design, Object Oriented Design using UML, Cement Production, Composition and Chemistry - Concrete Technology, Statistics and Probabilty Distribution - Engineering Mathematics, Design of earthquake resistant design of RCC multi-storeyed frames - Design of Concrete Structures.

## 2.14 Significant Activities and contributions made by IQAC

- National Conference on “Advancement in Biometrics Trends and its Applications (NCABTA - 2015)” under seminar symposia scheme of DST, Govt. of India
- National Conference on “Development & Advancement in Smart Grid for Solar Renewable Energy” (NC - DASGSRE - 16) under seminar symposia scheme of DST, Govt. of India
- National Conference on “Sustainable Solid Waste Management- An Innovative Approach (Ncsswm-2016)” under seminar symposia scheme of DST, Govt. of India
- Four week AICTE approved FDP by IIT Bombay on “Use of ICT in Education for Online and Blended Learning”
- ISTE STTP on “Technical Communication” was conducted 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 STTP on Engineering Physics 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.
- ISTE STTP workshop on “Introduction to Structural Engineering” organized by IIT Kharagpur under National Mission on Education through ICT ( NMEICT) sponsored by the Ministry of Human Resource Development, Govt. of India.
- ICT Short Term Course on “Climate Change, Disaster Management and Sustainable Development” was conducted in association with NITTTR Chandigarh through ICT.
- ICT Short Term Course on "MATLAB and Its Hardware Interface" was conducted in association with NITTTR Chandigarh through ICT.
- FDP on “Embedded C Programming of Microcontrollers” was conducted in association with NITTTR Chandigarh through ICT.
- Short term course on “Building Your Own Smart Phone” was conducted in association with NITTTR Chandigarh through ICT.
- Two weeks workshop on “Research Methodology” was conducted in association with NITTTR Chandigarh through ICT.
- Faculty Development Program on “Mobile Computing” was conducted in association with NITTTR Chandigarh through ICT.

- QEEE sessions were organized by IIT, Madras under D2S (Direct to Student) Program at Dronacharya College of Engineering, Gurgaon through ICT.
- Seminar on “Green Power in India” was organized by ISTE Student Chapter to create consciousness about environment and to discuss some significant measures to be adapted for making India cleaner and Greener
- Blood Donation Camp organized in association with Rotary Club
- 2<sup>nd</sup> International Yoga Day on 21 June 16 was celebrated
- Organized Debate and an Elocution Contest on “Vigilance is a Necessary Aid to Governance” in association with GAIL India Limited
- Two Entrepreneurship Awareness Camps in association with EDI Ahmedabad under DST -NIMAT Scheme
- Two Entrepreneurship Development Programs in association with EDI Ahmedabad under DST -NIMAT Scheme
- Seven Days NSS Annual Camp on Yoga & Swachh Bharat Abhiyan
- E - Myth workshop conducted by Footstep at college campus.
- Organized a one-week winter school on “VLSI Design”
- Organized a one-week winter school on the “IBM DB2”
- Microsoft India & Microsoft MVPs across India came together for a social cause "Digital Citizenship" as part of Community Day 2015. Faculty & Students participated in the activity and visited 50 different schools of Delhi NCR

### 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>
<b>1. Academic:-</b> 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.	(a) Result of this year is better than the result of previous years (b) Many FDPs have been organized during this year. (c) Advanced Level Telecom Training Centre

<p>d) Encourage faculty to go for outside seminars/workshops/entrepreneurship program.</p>	<p>(ALTTC) BSNL, Sardar Sarovar Dam, Kiki Center of Technology, Pragati Power Corporation Limited, Diesel Loco Shed, Tughlakabad</p> <p>(d) Faculty members have participated in over 100 conferences / workshops at National &amp; International level.</p>
<p><b>2. <u>Development/Improvement in Students Performance:-</u></b></p> <p>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 research Journal.  f) Promote close alumni interaction with current students.  g) Personality Development Programmes.  h) Active student participation in EDC  i) Increase participation of student creative activities/ clubs.</p>	<p>a) Overall College pass percentage was better than University pass percentage  b) Placement has been increased from last year  c) Students attended workshops &amp; seminars.  d) More than 1000 papers published by the students  e) Conducted Alumni Student Connect Programme  f) Microsoft Digital India Hackathon was organized in the college to give students training on Microsoft Azure, Windows 8.1 and Window 10 Development and clouding technologies  g) Workshops conducted by EDC cell  h) Various activities are organized by various clubs</p>
<p><b>3. <u>Facilities:-</u></b></p> <p>(a) Purchase of some latest equipment and software.</p>	<p>a) Latest equipment's have been purchased for various labs.</p>
<p><b>4. <u>Sports Facilities :-</u></b>  Improvement in Sports facilities. More sport equipment's (indoor &amp; outdoor added.)</p>	<p>a) More sports equipment's have been purchased.  b) College is organizing its sports meet twice a year.</p>

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 details in Management's meeting and Academic Council and the suggestions 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				05
Others				02
<b>Total</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>07</b>

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.**

NA.

**Criterion – II**

**2. Teaching, Learning and Evaluation**

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
246	171	52	23	0

2.2 No. of permanent faculty with Ph.D.

43

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
35	18	12	10	14	11	0	0	61	39

2.4 No. of Guest and Visiting faculty and Temporary faculty

01	01	Nil
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/	19	27	NIL
Presented papers	33	23	NIL
Resource Persons	02	08	NIL

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

Virtual Labs, International Level Certification courses, Spoken Tutorial for first year students, On line assignments, Use of NPTEL in teaching, Power point presentation of each subject is available on website

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

203

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

81%

### 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.	584	26.19 %	57.87 %	9.76 %	NIL	93.83%

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

IQAC does frequent meetings with the academic committee of the college and suggests changes in the teaching & learning processes where ever it is required. IQAC has developed a mechanism, in which the Teaching & Learning process is monitored closely and a report is submitted every fortnightly to the chairperson of IQAC. The progress is evaluated by comparing different results on various parameters

### 2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	193
UGC – Faculty Improvement Programme	1
HRD programmes	49
Orientation programmes	3
Faculty Exchange Programme	3
Staff training conducted by the university	5
Staff training conducted by other institutions	11
Summer / Winter schools, Workshops, etc.	17
Others(FDP at College Campus)	50

## 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	88	6	7	Nil
Technical Staff	39	4	4	Nil

## Criterion – III

### 2. Research, Consultancy and Extension

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

- MOU with Kyushu Institute of Technology, Kitakyushu, Japan to promote Joint Collaborative Research Work.
- Research Journal is publishing biannually.
- Students are encouraged to write research papers for various International Journals.
- Students are encouraged to file patents & copyrights

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number			1	
Outlay in Rs. Lakhs			280000/-	Yes

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number			21	
Outlay in Rs. Lakhs			942953/-	Yes

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	31	02	
Non-Peer Review Journals	09	07	
e-Journals	69	84	
Conference proceedings	31	26	

**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	2015-16	MHRD	280000/-	280000/-
Minor Projects	2015-16	SERB, MHRD, IEEE	942953/-	942953/-
Interdisciplinary Projects				
Industry sponsored	2015-16	MOTOROLA FAER, Zamil Infra Private Limited	154748/-	154748/-
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

INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution.

Level	International	National	State	University	College
Number		4			3
Sponsoring agencies		SERB, Amal eJyothi College of Engineering			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	6
	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
		08	05	02		07

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

3

3

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  State level   
National level  International level

3.24 No. of Awards won in NCC: Nil

University level  State level   
National level  International level

### 3.25 No. of Extension activities organized

University forum	<input type="text" value="4"/>	College forum	<input type="text" value="08"/>		
NCC	<input type="text"/>	NSS	<input type="text" value="5"/>	Any other	<input type="text" value="2"/>

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

- To study about the latest trends in the field of Image Processing, three faculty members visited **Kyushu Institute of Technology, Kitakyushu, Japan** under Joint Collaborative Research Work,
- National Conference on Advancement in Biometrics Trends and its Applications (NCABTA - 2015) under seminar symposia scheme of DST, Govt. of India
- National Conference on “Development & Advancement in Smart Grid for Solar Renewable Energy” (NC - DASGSRE - 16) under seminar symposia scheme of DST, Govt. of India
- National Conference on “Sustainable Solid Waste Management- An Innovative Approach (NCSSWM-2016)” under seminar symposia scheme of DST, Govt. of India.
- National Conference on “Research in Emerging Areas (NACORE-16)” was organized in association with Amal Jyothi College of Engineering
- Four week AICTE approved FDP by IIT Bombay on “Use of ICT in Education for Online and Blended Learning”
- ISTE STTP on Technical Communication was conducted 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 STTP on Engineering Physics 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.
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- FDP on “Embedded C Programming of Microcontrollers” was conducted in association with NITTTR Chandigarh through ICT.
- Short term course on “Building Your Own Smart Phone” was conducted in association with NITTTR Chandigarh through ICT.
- Two weeks workshop on “Research Methodology” was conducted in association with NITTTR Chandigarh through ICT.
- Faculty Development Program on “Mobile Computing” was conducted in association with NITTTR Chandigarh through ICT.
- Five-day workshop on “Student Evaluation: Instructional Planning and Delivery” in association with NITTTR Chandigarh through ICT
- 2<sup>nd</sup> International Yoga Day on 21 June 16 was celebrated.
- Organized Debate and an Elocution Contest on “Vigilance is a Necessary Aid to Governance” in association with GAIL India Limited
- Two Entrepreneurship Awareness Camps in association with EDI Ahmedabad under DST -NIMAT Scheme
- Two Entrepreneurship Development Programs in association with EDI Ahmedabad under DST -NIMAT Scheme
- Organized Microsoft Digital India Hackathon to provide training to students on Microsoft Azure, Windows 8.1 and Window 10 Development and clouding technologies.
- Industrial Visits to KR Network Cloud Technologies Pvt. Ltd., SKH Metals Limited, Manesar, Indian Market Research Bureau (IMRB), Sahasra Electronics Pvt. Ltd, CSIR CRRI - Central Road Research Institute, Centre for e-Governance, 7 BRD Air Force Station, Sandhar Automotives, Yakult Milk Plant, Kiki Centre for Technology, Networker Guru Technologies Pvt. Ltd., CETPA INFOTECH Pvt. Ltd., FRICK India ltd. , Apron Solutions, Pragati Power Corporation Limited, C# Corner, Panasonic India Pvt. Ltd.
- One - day workshop on “Virtual Labs was conducted in association with IIT Delhi.
- Organized Microsoft Ideation Festival - 2016 in association with Microsoft Innovation Centre (MIC).
- An Automation Exhibition was conducted by FESTO, Bangalore at college campus

- Organized a National Level Project Competition “Dronspark”
- Organized a workshop on “IT Networking” conducted by Milestone Achievers OPC Pvt. Ltd.
- E - Myth workshop conducted by Footstep at college campus
- College organized a week Winter School on “VLSI Design”
- Organized Winter School on the “IBM DB2”
- Conducted guest lecture on "5G Mobile Network Technology"
- Celebration E-Week 2016 by The Entrepreneurship Development Cell.
- Conducted a one-day workshop on “The Great Mind Challenge 2015-16” in association with IBM
- A two-day Faculty Development Program on Microsoft Azure and Internet of Things was conducted
- Organized a guest lecture on Database Management System (DBMS) in association with “WeBind”
- Organized the “CSI State Student Convention (SSC - 2016)”.
- Organized a guest lecture on the topic “How to Crack Group Discussion and Personal interviews” by Prof. Nidhi Tak, from IBS, Gurgaon
- Organized a seminar on “VLSI Design and Embedded Systems” in association with DKOP Labs, Noida
- Organized a visit to 505 Army Base Workshop Camp, Delhi Cantt, New Delhi
- Organized seminar on “Statistical Signal Processing” was delivered by Prof. (Dr.) S.D Joshi .
- Organized a counselling session by the team of “Quantum of Excellence”
- Organized a two-day workshop on “Introduction to the Internet of Things” in event TRONAXIOM 2016
- Conducted Summer School on “Advanced VLSI Design”
- Conducted Summer School on “Android App Development
- Organized two-day workshop on Quad-Copter in collaboration with Robosapiens Technologies Pvt. Ltd
- Organized a training program on “STAAD PRO” for final year Civil Engineering

- Organized one day Cisco Networking workshop conducted by Network Bulls
- Organized workshop on Entrepreneurship in association with EzSwype Business Solutions (P) Ltd
- Organized a two day workshop on “PLC & Automation” in association with Siemens authorized Industrial Automation Training Center ATC North
- Organized a seminar on “How to Crack Coding Interview”
- Organized workshop “WINGS TO FLY” conducted by Footsteps
- Organized a workshop on “Information Security”.
- Organized a three days workshop on “IUCEE SPEED Regional Student Forum 2015”
- Organized a one-day seminar on “Green Power in India”
- Organized a one-day seminar on Telecom Evolution from 1G to 5G in association with Huawei Network Academy and Indovision.
- Organized a one-day workshop “Software Testing On Android Platform”, conducted by “SKY TESTERS
- Organized Guru Dron Mathematics Olympiad - 2016 (GDMO – 2016)
- Celebrated Annual Sports Day
- Organized “The Digital India Week” at college campus.
- Microsoft India & Microsoft MVPs across India came together for a social cause "Digital Citizenship" as part of Community Day 2015. Faculty & Students participated in the activity and visited 50 different schools of Delhi NCR
- Blood Donation Camp organized in association with Rotary Club
- Celebrated Independence Day
- Celebrated Republic Day
- Celebrated Good Governance Day
- Organized Seven Days NSS Annual Camp on the theme Yoga & Swachh Bharat Abhiyan
- Organized an event “proud to be a voter - ready to vote” to celebrate the 6th National Voters’ Day

## **Criterion – IV**

### **3. 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	60	2	Institution	62
Laboratories	83	-	Institution	83
Seminar Halls	9	-	Institution	9
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)	74.56		Institution	
Others (Rs. in Lakhs)	39.51		Institution	

#### **4.2 Computerization of administration and library**

- All offices are having dedicated computer systems with peripherals like printers, scanners etc.
- MOU with Ted consulting- For development and deployment of Cloud based services
- Digital Library- e-Granthalaya Library Management Software
- 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	35284	7369269	937	401590	36221	7770859
Reference Books	12834	1380597	201	13250	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 Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing 2014-15	981	11	30 MBPS		1	1	8	
Added 2015-16	30		40 MBPS		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 lectures are available at college library for faculty & students.
- Training programs for faculty members & students are organized by Spoken Tutorials, IIT Bombay, NITTTR Chandigarh,
- One faculty attended a one-day Faculty Development Program on Cloud Computing at Huawei Academy, Gurgaon organised by Huawei Network Academy.
- Two faculty attended a one - week Faculty Development Programme on “Network and Cyber Security” organized by JNU, New Delhi in association with NITTTR, Chandigarh
- Organized two-day Faculty Development Program on “Microsoft Azure and Internet of Things” conducted by the Microsoft Innovation Centre.
- Organized a workshop on “Information Security”.

4.6 Amount spent on maintenance in lakhs:

i) ICT	13.51
ii) Campus Infrastructure and facilities	21.70
iii) Equipments	4.80
iv) Others	33.21
<b>Total :</b>	<b>73.22</b>

**Criterion – V**

**5. Student Support and Progression**

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Notices regarding various activities and student support programs are prominently displayed on notice boards.
- E-mail to all students regarding various student support services are sent frequently.
- Mailer to all students regarding competitions & call for papers.
- SMS to all students regarding various student support services.

5.2 Efforts made by the institution for tracking the progression

- Online Assignments
- 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
2306	23	NIL	Nil

(b) No. of students outside the state

1086

(c) No. of international students

Men	No	%	Women	No	%
	1919	82.39		410	17.61

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1922	93	0	526	0	2541	1543	98	0	688	0	2329

Demand ratio

Dropout % -3.04 %

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

- Summer & Winter Training Programs are organized for GATE preparation
- National Creativity Aptitude Test (NCAT) 2016 is organized by International Forum for Excellence in Higher Education (IFEHE) at College Campus
- National Level Examination of Srinivasa Ramanujan Mathematical Competitions 2015 - 16 (SRMC 2015 - 16) is organized by Indian Society for Technical Education (ISTE).

No. of students beneficiaries

#### 5.5 No. of students qualified in these examinations

NET  SET/SLET  GATE  CAT   
IAS/IPS etc  State PSC  UPSC  Others

#### 5.6 Details of student counselling and career guidance

- Counselling of final year students is being done at minute level.

- Career guidance cell guides students about various options after B. Tech
- Organized a seminar on “Bridging the Skills Gap” by the team of “Ofssam”. The objective of the seminar was to train the students through project based programme and make them job-ready for the industry.
- Conducted AMCAT Assessment for final Year Students.
- Conducted eLitmus Placement Assessment for final year students.
- Conducted Cocube Diagnostic Assessment for final year students.
- Organized a seminar on “How to Crack Coding Interview” by Mr. Kamal Rawat, Computer Scientist, of Bodhn.
- Organized a guest lecture on the topic “How to Crack Group Discussion and Personal Interviews” by Prof. Nidhi Tak, from IBS, Gurgaon.
- Mock Placement Preparatory Session for the final year students was conducted by IGATE global solutions, Amdocs Private Ltd, Aircel, Atos Origin
- Students attended the seminar on “Career in Investment Strategy “organized by EIFS Pvt. Ltd at India International Centre, Lodhi Road, New Delhi.

No. of students benefitted

656
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#### 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
213	548	316	23

#### 5.8 Details of gender sensitization programmes

- One female faculty members visited **Kyushu Institute of Technology, Kitakyushu, Japan** under Joint Collaborative Research Work to study about the latest trends in the field of Image Processing.

- Three female faculty members attend a roundtable discussion on “Economic Empowerment of Women in India”, organized by Confederation of Indian Industry at the CII Headquarters, New Delhi.
- Panel discussion on “Women Empowerment” was organized.
- Seminar on Beti Bachao, Beti Padhao was organized.
- Forty girls’ student & one female faculty member attended conference on the theme “Networking reception for women in technology”, sponsored by American Express at ITC Maurya, New Delhi.
- One female faculty member attended a one - week Faculty Development Programme on “Network and Cyber Security” organized by JNU, New Delhi in association with NITTTR, Chandigarh.
- One female faculty member delivered a webinar entitled “Change Detection Techniques in Remote Sensing (satellite) Images” on 1st July 2015 3:30 pm. The webinar was conducted by IUCEE (Indo - US Collaboration for Engineering Education).
- One female faculty member attended five - day workshop on “MATLAB and Its Hardware Interface” organized at NITTTR, Chandigarh.
- Two female faculty member attended National workshop on Power Electronics (NWPE - 2015) under the umbrella of National Mission on Power Electronics Technology (launched by the Department of Electronics and Information Technology (DeitY) Govt. of India)
- One female faculty member attended three - day National workshop on “Sample Surveys and Data Analysis (Using Software-SPSS, MINITAB and R)”.
- One female faculty member attended workshop on “Entrepreneur development, Innovation and Patenting”.
- One female faculty member attended 5 - day workshop on “Make in India: Innovative Product Design” organized at IIT Delhi.
- One female faculty member attended “3<sup>rd</sup> International Conference on Transformations in Engineering Education (ICTIEE)” organized by College of Engineering, Pune in collaboration with Indo - US Collaboration for Engineering Education (IUCEE).
- One female faculty member attended one day workshop on ‘COMSOL for Electrical Applications’ organized by COMSOL Multiphysics Pvt. Ltd.

- One female faculty member attended the iBharat 2016 organized at FICCI, New Delhi in partnership with the Department of Electronics & IT, Government of India.
- One female faculty member attended the workshop on Virtual Labs organized by Indian Institute of Technology Delhi (IITD).

## 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	1.32
Financial support from government	2	0.68
Financial support from other sources		
Number of students who received International/ National recognitions		

5.11 Student organized / 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 certification is being 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 which also goes 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 and students.
- Regular feedback from students to improve teaching and learning methods.
- Faculty are encouraged to use e-Learning resources like NPTEL,
- 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**

- To study about the latest trends in the field of Image Processing, three faculty members visited **Kyushu Institute of Technology, Kitakyushu, Japan** under Joint Collaborative Research Work.

- The project titled “Design and Development of a Highly Efficient Graphene Based Photovoltaic Device” is shortlisted under INUP Programme of IIT Bombay (Indian Nanoelectronics Users Programme) which is duly funded by DeitY (Department of Electronics & Information Technology), MCIT (Ministry of Communication and Information Technology) Government of India
- 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 start the Project work from 2nd year onwards.
- 6 Patents are filed by students & Faculty members
- One team selected as National Finalist in Microsoft Imagine Cup 2016 and become a part of elite International Community of Students who have shown remarkable creativity and Innovation to push technology forward.
- Project idea of "Electromagnetic Wave Extraction of Human Eye" has been selected under top 100 projects of 2015 in International Project Development competition organized by I.P.D. France
- Students secured top 10th rank in National Level Competition “e-Yantra Robotics Competition (eYRC)” conducted by IIT Bombay
- One student secured 9<sup>th</sup> rank for project titled ‘Electricycle’ which was all about converting mechanical energy produced by peddling a cycle to electrical energy for running home appliances in Tech Fest at IIT Kanpur.
- Two students secured 2<sup>nd</sup> position in a competition named “Appathon” conducted by IIT Roorkee
- Three students won 2<sup>nd</sup> prize in the “Smart E: The Apprentice Challenge #3” organized by National Entrepreneurship Network (NEN) and awarded a cash prize of Rs. 10,000/-.
- Two students have secured 17th and 33rd rank in India respectively and 232 and 303 rank respectively in entire Asia Pacific and Japan Region In NetRiders competition organized by CISCO.
- Faridabad Industries Association (FIA) organized the engineering project competition "The Young Entrepreneurs Panel" at the FIA Headquarters, Faridabad. Student won 1<sup>st</sup> & 2<sup>nd</sup> position in FIA to showcase their novel idea with Project titled: “Self Sustainable Hybrid Model for Rural Electrification” and Project titled: “Medicine Dispenser”

- Students got 1<sup>st</sup> position with cash prize of Rs. 20,000 in Endurance round and overall 2<sup>nd</sup> position with cash prize of Rs. 35000/- in National Level Project Competition "Ultra Golf Kart Championship".
- Project titled "Indoor Pollution Control Plant for Industry and Domestic Purpose" received a Project funding worth Rs 5000/- in FAER-McAfee Scholar Award Program 2015-16 at Bangalore.
- Students got 3<sup>rd</sup> Prize in " National Level Project competition INNOVISION 2016 (SCIENCE EXPO)" held at Netaji Subhash Institute of Technology (NSIT)
- Students won the 1<sup>st</sup> prize in the competition "Internet of Things" organized by Microsoft Most Valuable Professional (MVP)

### **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
- 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. This 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

- Kyushu Institute of Technology, Japan- For Joint research, exchange of academic & publication, exchange of faculty members for research, discussion and lectures.
- Microsoft - Microsoft IT Academy
- IBM - IBM Centre of Excellence
- Pearson- Pearson Testing Centre
- ORACLE - for Oracle IT Academy
- CISCO - for CISCO Networking Academy
- Huawei - Industrial Visit of students
- Maruti - Industrial Visit of students
- Network Bulls - Industrial Visit of students
- TCS - MOU for Online Exam
- XLRI- MOU for Online Exam
- Symbiosis- MOU for Online Exam
- CADD Centre – For AUTOCAD designing workshops
- 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
- Android ATC - Authorized Training centre.
- Spoken Tutorial (IIT Bombay) - Resource Centre for Faculty Development Program, Online Certification, Awareness Session
- Electronics For You (EFY)- to enable students to upgrade their skill by developing passion for DIY Electronics.
- IIT Delhi (Virtual Lab)-Nodal Centre for virtual lab
- Bosch India Ltd- Training Programme for Students
- eLitmus Evaluation Pvt Ltd- For Pre-Employment Assessment for placement.
- Cocube .- For pre-employment assessment skills & Aptitude Test
- Monster.com India Pvt. Ltd - For online recruitment solution
- Aspiring Minds (AMCAT)- For Pre-Employment Skill Assessment Program
- 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 maintaing website
- Franciscan Solutions Pvt Ltd- For online panel for managing college information & SMS & Mailing services
- IUCEE- Webinars for Research Methodology
- 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.
- 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), Ahmedabad
- IIT Bombay- Remote Centre for conducting workshops & FDPs
- IIT Kharagpur- Remote Centre for conducting workshops & FDPs
- NPTEL- Local Chapter for Online courses

### 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).

6.4 Welfare schemes for

Teaching	2
Non-teaching	2
Students	4

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**

- Alumni made students aware about the differences between present education system and actual demands of Industries. They also disseminated significant tips on **Aptitude Test, Technical Test, HR Interview** etc in Alumni Connect Programme.
  - Alumni are coming regular to the campus and give many valuable suggestions on the future direction for projects, research and teaching approaches were also shared.

**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 discussed 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 "2nd International Yoga Day (IYD)" on 21<sup>st</sup> June 2016.
  - Librarian attended a short term programme on Digital Library Management. Programme, organized by NITTTR, Chandigarh
  - Organized an awareness session on Eye Care.

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

- Recycling of waste papers
- Tree Plantation
- 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.
- Organized a one-day seminar on "*Green Power in India*" to create awareness on the present day expectations in regard to various concepts of green power.

### 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) Spoken tutorial certification from IIT Bombay for all the students.
- b) QEEE an initiative of MHRD – For D2S (Direct to Student) Program
- c) The projects have been started from 2nd year onwards.
- d) Industrial visits are organized to give practical knowledge.
- e) Summer Internship Training Programme conducted regularly. Topics are based on industry requirement.
- f) Students are encouraged for participating 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.
- 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.

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

- Three faculty members visited Kyushu Institute of Technology, Kitakyushu, Japan under Joint Collaborative Research Work.
- National Conference on Advancement in Biometrics Trends and its Applications (NCABTA - 2015) under seminar symposia scheme of DST, Govt. of India
- National Conference on “Development & Advancement in Smart Grid for Solar Renewable Energy” (NC - DASGSRE - 16) under seminar symposia scheme of DST, Govt. of India
- National Conference on “Sustainable Solid Waste Management- An Innovative Approach (NCSSWM-2016)” under seminar symposia scheme of DST, Govt. of India
- Industrial Visits to KR Network Cloud Technologies Pvt. Ltd., SKH Metals Limited, Manesar, Indian Market Research Bureau (IMRB), Sahasra Electronics Pvt. Ltd, CSIR CRRI - Central Road Research Institute, Centre for e-Governance, 7 BRD Air Force Station, Sandhar Automotives, Yakult Milk Plant, Kiki Centre for Technology, Networker Guru Technologies Pvt. Ltd., CETPA INFOTECH Pvt. Ltd., FRICK India Ltd. , Apron Solutions, Pragati Power Corporation Limited, C# Corner, Panasonic India Pvt. Ltd.
- Four week AICTE approved FDP by IIT Bombay on “Use of ICT in Education for Online and Blended Learning”
- ISTE STTP on Technical Communication was conducted 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 STTP on Engineering Physics organised 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” organised by IIT Bombay under National Mission on Education through ICT ( NMEICT) sponsored by the Ministry of Human Resource Development, Govt. of India.
- ISTE STTP Workshop on Introduction to Structural Engineering organised by IIT Kharagpur under National Mission on Education through ICT ( NMEICT) sponsored by the Ministry of Human Resource Development, Govt. of India.
- Existing two faculty members are enrolled for Ph.D
- New MOUs has been signed.
- Number of students increased in online certification courses in all streams(NPTEL, QEEE)
- Four summer & winter programmes are conducted at college campus
- Compare to last year placement has been increased

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

- Online Certification courses
- 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.
- Planted more than 100 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

**SWOT Analysis:**

**Strengths:**

- College is accredited by NBA , NAAC, certified by ISO and permanent affiliation with Maharishi Dayanand University
- Dronacharya students hold top ranks in University exams (In the last 3 years students have grabbed maximum University ranks in M. D. University).
- College has qualified & highly experienced Faculty
- Value added courses for enhancing employability & placement.
- Focus on all round development of students through various programs like online certifications, Spoken tutorial from IIT Bombay

**SWOT Analysis:**

**Weaknesses**

- Lack of Research publication in high impact factor journals
- All faculty members are not Ph.D holders

**SWOT Analysis:**

**Opportunities**

- 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.
- More collaborations with industries

**SWOT Analysis:**

**Threats**

- Rapidly changing technology and the industrial requirements ask for enhancing the employability of students for which extra measures need to be taken
- Increased in -disciplined behaviour amongst students

## 8. Plans of institution for next year

- a) To organize International Conference
- b) To develop Labs as a nodal centre of Virtual Lab, IIT Delhi.
- c) To organize workshop on virtual lab & its impact
- d) To initiate more student chapters in campus
- e) More industrial visits for students in good core companies
- f) Encourage Faculty & students to participate in International Conference
- g) More MOUs with leading Industries.
- h) Extra classes & counselling for weak students at more minute level to improve the results.
- i) College encourage students to participate in various competitions.
- j) Close mentoring of final year students for better placements.
- k) Publish more papers in good research Journals
- l) Promote close alumni interaction with current students.
- m) Increase participation of student creative activities/ clubs.
- n) To conduct summer schools internship on latest technology at college campus.

Name Dr. Sri Krishan Yadav

Sri Krishan Yadav

Signature of the Coordinator, IQAC

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

B.M.K. Prasad

Signature of the Chairperson, IQAC

**Principal**  
**Dronacharya College of Engg.**  
**Farrukh Nagar-123506**

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## 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

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