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/AQAR2018

1.5 Accreditation Details

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

1.6 Date of Establishment of IQAC : DD/MM/YYYY | 05/12/2005

1.7 AQAR for the year (for example 2010-11) | 2017-18

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

  i.   AQAR 2016-17 _____(13/09/2017)
 ii.   AQAR 2015-16 _____(19/09/2016)
iii.   AQAR 2014-15_____(21/08/2015)
 iv.   AQAR 2013-14_____ (12/08/2014)

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)

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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 [ ]   UGC-CPE [ ]

DST Star Scheme [ ]   UGC-CE [ ]

UGC-Special Assistance Programme [ ]   DST-FIST [ ]

UGC-Innovative PG programmes [ ]   Any other (Specify) [ ]

UGC-COP Programmes [ ]

2. IQAC Composition and Activities

2.1 No. of Teachers — 6

2.2 No. of Administrative/Technical staff — 4

2.3 No. of students — 2

2.4 No. of Management representatives — 1

2.5 No. of Alumni — 2

2. 6 No. of any other stakeholder and

community representatives — 2

2.7 No. of Employers/ Industrialists — 2

2.8 No. of other External Experts — 1

2.9 Total No. of members — 20

2.10 No. of IQAC meetings held — 2

2.11 No. of meetings with various stakeholders: No. 6

1	1	1	2	1
Faculty	Non-Teaching Staff	Student	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. 33   International 1   National 17   State 3   Institution Level 12

3.2.2

(ii) Themes

> Virtual Lab, Interview Skills, Electric Power System, Entrepreneurship Awareness Camp, Use of ICT in education, College to Corporate Program Soft Skills & Workplace Management, Cryptography, Scopes and Basics of Quality Tools in Industries, Wireless & Mobile Communication through ICT, Android, Scilab, Information Security, Big Data, Minecraft: Hour of Code, NPTEL Awareness, Programming, Break barriers. Create wealth. Change India, Advancement in Technology and Real Time Challenges, Role of Technology, CISCO Networking, Engineering Physics, Pedagogy for Online and Blended Teaching-Learning Process, Inform, Advise and Inspire

2.14 Significant Activities and contributions made by IQAC:

- Organized the **CSI Regional Student Convention (RSC - 2018**) with the theme of **"Advancement in Technology and Real Time Challenges" (ATRTC-2018)" and** sponsored by **I3india, AD Hospitalities Services and FestPav.com.**

- **Conducted 5 Entrepreneurship Awareness Camps in association with EDI Ahmedabad under DST -NIMAT Scheme.**

- Celebrated **National Technology Day** sponsored by DST, Govt of Haryana. 350 participants took part in celebration of the event.

- **International Yoga Day was Celebrated**

- Organized a program **"Inform, Advise and Inspire"** The program was conducted as an online face-to-face interaction with the speakers **Mr. Kamlesh Kumar (Senior**

Structural Engineer, Chicago, USA) and **Mr. Krashan Singhal (Senior Water Resources Engineer, Chicago, USA) 2nd November, 2017.**

- Conducted one-day workshop on "**Virtual Labs**" in association with **IIT Delhi**.

- Organized two 15 days AICTE approved **Faculty Development Program (FDP)** on "**Foundation Program in ICT for Education**" under **(PMMMNMTT), MHRD, Govt. of India** in association with **IIT Bombay** on **24th - 25th March 2018.**

- **Entrepreneurship Development Cell (EDC) of college** celebrated **E-Week 2018** by conducting many activities inside and outside the campus. **10th - 16th February 2018**

- Organized a one - day **"Orientation Program"** to make the budding technocrats well acquainted with various labs, facilities as well as execution of academic planning **29th July 2017**

- **SPIC MACAY Chapter inaugurated in the college.**

- Conducted a two-day **Technical Enhancement Program (TEP)** on **"Virtual Lab and Microsoft Office Excel"**

- **Microsoft Innovation Centre of college** organized "**Microsoft Azure Workshop"** on **31st August 2017**.

- **ISTE STTP** workshop on "**ELECTRIC POWER SYSTEM**" organized by **IIT Kharagpur** under **National Mission** on Education through **ICT (NMEICT) sponsored by the Ministry of Human Resource Development, Govt. of India conducted at college campus**

- Organized **one-day session on "Interview Skills"** in collaboration with **IBS Business School, Gurgaon** for the Final Year students.

- Organized **"ACME-17" – One Day Summit by IT Professionals** for the final year students driven by the **IT Experts** and **Alumni.**

- Organized a workshop on "**Google Buzz**" for CSE & IT students.

- **EDC of college** organized **"NEN Orientation Program"** headed by **Ms. Shruti** (Regional Manager, Wadhwani Foundations New Delhi).

- **ASCE Student Chapter** of college hosted **"The Motivational Talk for Civil Engineering Students"** on **21st Sept 2017. Er. J S Rosha**, **President, ASCE (Northern India Region,)** was the motivational speaker.

- Organized an expert lecture on "**Scopes and Basics of Quality Tools in Industries"** **where** keynote speaker was **Dr. Rajeev Kumar Saha**, Asst. Prof., YMCA UST, Faridabad

- Organized one- day workshop on the topic **"Introduction to Cryptography"** conducted by **Prof (Dr.) Rajendra Kumar Sharma**, **Faculty of Mathematics, IIT, Delhi** in college campus.

- Conducted face to face interaction of two **AICTE approved Faculty Development Program (FDP)** on "**Pedagogy for Online and Blended Teaching-Learning Process - FDP201x'**" under **Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching(PMMMNMTT), MHRD, Govt. of India.**

- Organized the event of Tree Plantation at college campus.

- Conducted Face to Face Interaction of College to Corporate Program "Soft Skills & Workplace Management" organised by **IIT, Bombay** using **A-View**.

- Organized a "**Project Exhibition and Poster Presentation-INSPIRE -2017"**

- Conducted a five - day short term course on **"Wireless & Mobile Communication through ICT"** under the **National Mission on Education through ICT (NMEICT)** in collaboration with **NITTTR Chandigarh.**

- **College in association with** Network **Bulls Gurgaon** organized a workshop on **"CISCO Networking"**

- Microsoft Innovation Centre of college organized a one-day workshop on "**Building Your Professional Profile**".

- Organized a workshop on **"BIG DATA"** in association with **RCPL India**.

- Organized a guest lecture on **"Information Security"** where **Mr. I. L. Narasimha Rao** (Project Manager) from C-DAC Hyderabad was the keynote speaker.

- Conducted lecture demonstration on **Scilab** organized by FOSSEE team, **IIT Bombay** under the aegis of **Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNMTT), MHRD, Govt of India**.

- Organized the inter college **Techno-Debate Competition**.

- **Google Developer Student Club of college** organized a workshop on **"Android"**.

- Blood Donation Camp organized in association with Rotary Club.

- Organized a guest lecture on **"Basics Concepts in Engineering Physics".** The speaker for the lecture was Dr. Ravi Kant Soni, Department of Physics, IIT-Delhi.

- Organized a series of workshop on "**Minecraft : Hour of Code"**

- Organized summer school on Microsoft Azure.

- Organized summer school on "Bridging the gap between college and industry"

- Organized summer school on "Assistive Technology."

- Organized summer school on "Internet of Things".

- Organized summer school on "GATE".

- Organized summer school on "VHDL".

- Organized summer school on "Data Science using R".

- Organized summer school on "JAVA & Angular JS".

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 *

Plan of action	Achievements
- To organize Faculty Development Programme	• **Many FDPs have been organized during this year**
- More industrial visits for students in core companies to make them understand practical concept of the topics	• Many Industrial Visits organized to CSIR-CEERI, Centre of e-Governance, Mahanagar Telecom Nigam Ltd(MTNL), National Institute of Solar Energy, Gwal Pahari, National Institute of Solar Energy, Gurgaon Huawei, Hero Motor Corp, UNO Minda, , Carrier AC and Refrigeration Ltd, 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.
- To Enhance cultural activities	• Spic Macay Chapter inaugurated
- College will emphasize to conduct more placement drive of Core Company.	• Many Core companies visited campus for placement : Samsung R&D Institute India., Capgemini Technology Services India Ltd., 3SC (SS Supply Chain Solutions Pvt. Ltd.), Communications Test Design India Pvt. Ltd., Wipro Limited, Toshi Automatic Systems, Singularity Automation Pvt. Ltd., Nippon Seiki Instruments India (P) Ltd., Minda Nabtesco

	Automotive Pvt. Ltd and many more…
- More activities will be conducted under student chapter.	• ISTE Student Chapter organized an **one day session on "Interview Skills"** • **ISTE Student Chapter** organized one- day workshop on the topic **"Introduction to Cryptography"** • **ISTE Student Chapter** organized a "**Project Exhibition and Poster Presentation- INSPIRE -2017".** • ISTE Student Chapter organized a guest lecture on "Basics Concepts in Engineering Physics". • **CSI Student Branch** organized the "**CSI Regional Student Convention (RSC - 2018**)" • **CSI Student Chapter** organized **"ACME- 17" – One Day Summit by IT Professionals.** • **CSI** Student Chapter in association with **Network Bulls Gurgaon** organized a workshop on **"CISCO Networking"**. • **CSI Student Chapter** organized a workshop on **"BIG DATA"**. • **CSI Student Chapter** organized a guest lecture on **"Information Security".** • **SPIC MACAY Chapter** organized an Inaugural Concert under Versant Series. • **ASCE Student Chapter** hosted **"The Motivational Talk for Civil Engineering Students"** • **IMechE Student Chapter** organized expert lecture "**Scopes and Basics of Quality Tools in Industries".** • **IMechE Student Chapter** organized the inter college **Techno-Debate Competition.** • ASCE Student Chapter organized a program named "Inform, Advise and Inspire".
- Entrepreneurship Awareness Camp will be organized under Entrepreneurship Cell.	• Entrepreneurship Development Cell organized Five Entrepreneurship Awareness Camps in association Entrepreneurship Development Institute, Ahmedabad
- 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.	Students won many prizes in technical competitions. • Winners of Diversity Track in "Microsoft

	Imagine Cup 2018" - Global competition organized by Microsoft. • One Project was awarded as the winner and one project **won Viewer's Choice Award** in **NES Innovation Awards 2018** organized by Natarajan Education Society at Pune. • Won 2nd prize in "The Young Entrepreneurs Panel" organized by Faridabad Industries Association (FIA) • Team selected as finalists in Accenture Innovation Challenge 2017 organized by Accenture. • Won 2nd position during FAER-McAfee Scholar Award Program 2017-18 at Bangalore. • Awarded as Runner Up (cash prize of Rs. One lakh) in project competition "Inter throne 2017" organized by Reliance • Won 4th rank in "Stand India Competition 2017" organized by AICTE & CBR
Promote close alumni interaction with current students.	Regular sessions on technical enhancement conducted by Alumni
To conduct summer schools internship on latest technology at college campus	• Organized Summer School on "Microsoft Azure" • Organized Summer School on "Bridging the gap between college and industry" • Organized Summer School on "Assistive Technology" • Organized Summer School on "Internet of Things" • Organized Summer School on "GATE" • Organized Summer School on "VHDL" • Organized Summer School on "Data Science using R" • Organized Summer School on "JAVA & Angular JS"

* 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				61
Others				08
Total	12	0	12	69

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 were done by M.D. University Rohtak for this 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
186	125	41	20	0

2.2 No. of permanent faculty with Ph.D.   30

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
	14	13	1	1	2	2	0	0	17	16

2.4 No. of Guest and Visiting faculty and Temporary faculty | 00 | | 00 | | Nil |

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/	19	27	NIL
Presented papers	9	14	NIL
Resource Persons	1	4	NIL

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

Multimedia Power Point Presentation, On Line assignments,

Virtual Labs, Spoken Tutorial for first year students,

2.7 Total No. of actual teaching days during this academic year | 204 |

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 | 1 | 2 | 2 |
as member of Board of Study/Faculty/Curriculum Development workshop

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.	670		58.05%	2.08 %	NIL	60.14 %

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

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

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	24
UGC – Faculty Improvement Programme	00
HRD programmes	110
Orientation programmes	07
Faculty exchange programme	02
Staff training conducted by the university	02
Staff training conducted by other institutions	05
Summer / Winter schools, Workshops, etc.	07
Others (Conferences Attended National & International)	71

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	7	3	4
Technical Staff	39	2	1	1

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 PhD.

- 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.

- Three project teams along with faculty coordinator participated in **"FAER-McAfee Scholar Award Program 2017-18"** organized by the **Foundation for Advancement of Education and Research (FAER)** and got the scholarship worth Rs. 5000

- The project titled "**Economical Smart Wheelchair with Healthcare Monitoring**" under the guidance of faculty member bagged **2nd position** in **Best Engineering Project Competition 2018** organized by **Faridabad Industries Association (FIA)-2018**.

- Two projects are selected for the **National Finals of Microsoft Imagine Cup 2018**

- Two projects namely **"Mobile Assistive Application for Visually Impaired"** and **"Helping Hand for Alzheimer Patient** bagged First and Second Prize under project competition **SRIJAN** in a technical fest **INNOSKILL 2018**

- Projects "**IoT Based Smart Wheelchair"** was awarded as the winner and project **"Mobile Assistive Application for visually impaired"** won **Viewer's Choice Award** in **NES Innovation Awards 2018.**

- The project **"IoT Based Connected Streets in Smart Cities"** was among the top finalists and the team received the hardware kit in the finale of **IoT Challenge 2018** organized by **i3indya Technologies** in association with **Radiance-18** at **IIT Bombay.**

- Four teams participated in **Jury Round of NES Innovation Awards 2017-18** held at Pune.

- Fifteen students (forming 5 project groups and 2 students as individual entries) participated in **STAND - India 2017** competition**. 2 Students** made it to **TOP 5** in individual entries while **3 Projects** made it to **TOP 10** in group entries of the competition.

- One student was selected to attend the 5th Undergraduate Summer School held at IISc, Bengaluru.

- Two students for their project **"ROUTE FINDER AND COMMUNICATOR FOR BLIND, DEAF AND DUMB"** are among **one of the four teams selected worldwide by Microsoft.**

- Two students attended the **9th National Research Methodology Workshop** organized by **PGI, GWALIOR.**

- Project entitled **Anti Collision System – INNOTECH** was awarded as runner up and won cash prize of **Rs. 1 lakh** in the category **"Automotive/Public transport"** in the competition **Interthrone – 2017.**

- Project titled **"SMART POULTRY FARMING SYSTEM" with** the theme **Disruptive Business** got selected to take part in the annual innovation extravaganza **Accenture Innovation Challenge** at **Bengaluru.**

- Students participated in the Regional Workshop of **9th India Innovation Initiative 2017** (I3-2017) Project titled **Androaqua** was shortlisted among the **Top 25 Innovators of Northern Region** based on the evaluation.

- Faculty member presented a paper titled "Design and Analysis of linear induction generator for wave energy application" in the conference **INDIACom-2018**.

- Faculty member presented the research paper titled "Perturbation of Absorption Spectral Properties of 2,3,5-Tri Chloro Pyridine and 5-Amino - 2-Methoxy Pyridine by Polar and Non-polar Solvents" in 20th International Conference of International Academy of Physical Sciences (CONIAPS-XX) on Recent Advances in Physical Sciences and Future Challenges.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number			1	
Outlay in Rs. Lakhs			3,50,000/-	

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number			08	
Outlay in Rs. Lakhs			342500 /-	

3.4   Details on research publications

	International	National	Others
Peer Review Journals	2	7	
Non-Peer Review Journals	57	21	
e-Journals	22	18	
Conference proceedings	16	3	

3.5 Details on Impact factor of publications:

Range   3 - 7   Average   4   h-index   4.6   Nos. in SCOPUS   4

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	1	MHRD (SIH)	350000	350000
Minor Projects	1	DST- NIMAT, FAER, TIME Institute, Reliance, Motorola, Natarajan Education Society, CII	342500	342500
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. [2]   Chapters in Edited Books [2]

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 [   ]   Any Other (specify) [DST-NIMAT, DST-Hry, CSI, MHRD]

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number		1	1		
Sponsoring agencies		DST-Hry	CSI		

3.12 No. of faculty served as experts, chairpersons or resource persons   5

3.13 No. of collaborations   International 13   National 26   Any other

3.14 No. of linkages created during this year   210

3.15 Total budget for research for current year in lakhs:

From Funding agency   20   From Management of University/College 10

Total   30

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	22
	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
	1	9	1			5

3.18 No. of faculty from the Institution
    who are Ph. D. Guides   [2]
    and students registered under them   [2]

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)

JRF [   ]   SRF [   ]   Project Fellows [12]   Any other [8]

3.21 No. of students Participated in NSS events:

University level [145]   State level [94]

National level [186]   International level [   ]

3.22 No. of students participated in NCC events:

University level [0]   State level [0]

National level [0]   International level [0]

3.23 No. of Awards won in NSS:

University level [49]   State level [0]

National level [0]   International level [0]

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

University level [0]   State level [0]

National level [0]   International level [0]

3.25 No. of Extension activities organized

University forum | 2 | College forum | 34 |

NCC | 0 | NSS | 7 | Any other | 10 |

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

- 4th International Yoga Day (IYD) was celebrated.

- Short term course on "Wireless & Mobile Communication through ICT" was conducted in association with NITTTR Chandigarh through ICT

- Organized a one-day workshop on **"Building Your Professional Profile"**

- **ISTE STTP** workshop on "**ELECTRIC POWER SYSTEM**" organized by IIT Kharagpur under **National Mission** on Education through **ICT (NMEICT) sponsored by the Ministry of Human Resource Development, Govt. of India conducted at college campus**

- Organized the face to face interaction of two week AICTE approved FDP on "**Foundation Program in ICT for Education"** under **PMMMNMTT, MHRD, Govt. of India** in association with IIT Bombay.

- Conducted face to face interaction of two AICTE approved (FDP) on **"Pedagogy for Online and Blended Teaching-Learning Process - FDP201x"** under (PMMMNMTT), MHRD, Govt. of India.

- Conducted a five - day short term course on **"Wireless & Mobile Communication through ICT"** in collaboration with **NITTTR, Chandigarh.**

- Lecture demonstration on **Scilab** was organized by FOSSEE team, **IIT Bombay** on **12th October 2017.** The program was conducted under the aegis of **Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNMTT), MHRD, Govt of India**. Total 89 remote centres across India attended the live session. 18 faculty members from various department of **Dronacharya College of Engineering, Gurgaon** attended the session.

- Two faculty members attended a short term course on "Optical Fiber Communication Networks and Troubleshooting" at NITTTR, Chandigarh**.**

- One faculty member attended 7 days Faculty Development Program on "Soft Computing Techniques and Applications (SCoTA-17)" organized by Banasthali University

- One student was selected for The Asia MSP Summit 2018 by Microsoft at Taiwan, Taipei.

- Four students attended a two day workshop on **"Android Development and Ethical Hacking Workshop"** at DTU, New Delhi organized by WAC**.

- 5 students attended the Tech Invent at Chandigarh University, Punjab**.

- Six students participated in COGNIZANCE - 2018**, the technical fest of IIT Roorkee

- 4 students participated in SPEED -2018 and got the first prize in the competition.

- **Team Ravishing Icebergs ranked in Microsoft Big Idea Challenge 2018** attended **Microsoft App Innovation Circle – Hands on Lab session** on the topic: **Cross Platform mobile Apps (Xamarin) & Mobile DevOps** at **Microsoft Gurgaon Office.**

- 4 students attended the Global Exhibition on Smart Grid organized by India Smart Grid Forum (ISGF).

- Faculty along with the students have participated in a national level Off Road competition **"MEGA ATV"** organized by AUTO SPORTS INDIA

- 4 students attended the conference "Ng-India Angular Conference" and were the part of organizing team and worked along with Microsoft MVP

- 2 students participated in grand finale of Rotary In-tech Olympiad 2018 in collaboration with the Rotary Club and got the First Prize in the Competition.

- ME Department students visited the expo **Auto Expo Component 2018** at **India Expo Mart Pragati Maidan New Delhi** organized by **SAE Student Chapter, Dronacharya College of Engineering, Gurgaon.**

- 8 students participated in prelims round of IOT Challenge 2018 held at Chandigarh University, Punjab.

- Three students conducted the workshop on "Introduction to Android" and "Why we need programming?" at Holy Cross School.

- Two teams along with faculty member participated in The Innovation Festival celebrated at National Science Centre, New Delhi.

- 7 teams participated in MIMAMSA Quiz organized by **IISER Pune** at **Miranda House, New Delhi** on **6th January 2018.**

- Two teams participated in "Science Quiz Contest" under Haryana State Council for Science & Technology (HSCST) organized by the G. C. Sec. - 14 Gurgaon**.**

- Four Students attended "Entrepreneurship Summit" organized by Indian Institute of Foreign Trade (IIFT), New Delhi.

- 6 Microsoft Student Partners (MSPs) from college attended Microsoft Azure Day hosted by Microsoft Corporation Pvt. Ltd, Gurgaon.

- One student attended **BizTalk360** organized a **Techmeet 360** with Microsoft Corporation on the **Microsoft Azure Day**.

- Four students attended the NTPC Electron Quiz Competition at NTPC Noida.

- One faculty member along with three students attended the "Annual Inter Student Chapter Meet 2017" organized by IMechE SRM student.

- 6 MSPs from college attended Microsoft Student Partner Summit 2017 organized by Microsoft**.**

- 6 students   attended "Global Artificial Intelligence Bootcamp**"** organized at Microsoft Office, Gurgaon**.**

- Twelve students participated and attended the event **"EDUCATION TAKE OFF"** organized by The Times of India.

- 8 Students participated in the Negotiation Table 2017organized by IIT Delhi

- One student along with a Microsoft trainer went as a trainer in a six days Azure Discovery Training Session organized by Microsoft at BITS, Pilani Campus

- 1 student along with his teammates of team Division - 42 attended 30 hours DCB Bank Innovation Carnival and Fintech hackathon hosted by DCB and Dev Accelarators, at Incuspaze Solutions Private Limited

- The first Face to Face Interaction of the **IIT, Bombay** Professors with the students using **A-View** was held at **Dronacharya College of Engineering, Gurgaon (RC Id-1216)**

- 3 Microsoft Student Partners attended an event, "The Angular Day" at Microsoft Office, Gurgaon.

- Two teams were selected in World Food India Hackathon organized by the Ministry of Food Processing Industries, Government of India**.**

- One student was selected as one of the Finalists for the Capgemini Tech Challenge in Data Science Challenge.

- Two students attended the workshop RENDEZVOUS 2017 – "AUTOMOBILE ENGINE MACHANICS AND IC ENGINE WORKSHOP" organized by IIT Delhi.

- 20 students attended the workshop on **"**Game Development" organized by Jamia Hamdard University, Delhi.

- Two students attended the event **"**NEN E-Leader Workshop".

- Four students attended the workshop "AUTOKRITI 9.0 AUDI A4 V6 and MERCEDES Engine Overhaul Workshop"

- 1 student attended the two days Global Training Partner Summit held at Microsoft office, Gurgaon

- 14 students attended one day workshop titled "Architectural Implications of Security in IoT Processors" at School of Information Technology Building IIT Delhi

- 5 students attended the event Hit Refresh - In Conversation with Satya Nadella

- 6 students attended the **"**Mining Summit" organized by CII at Jacaranda Hall, India Habitat Centre, New Delhi.

- 2 students attended an event, "Artificial Intelligence: imagining the future" held at Microsoft Office Gurgaon.

- 1 student was invited for Technical Session on behalf of Microsoft Technical Community NCR by Kendriya Vidyalaya Sangathan, Delhi Cantt**.**

- 1 student participated in a National Competition on Rural and Swadeshi Startup Meet, i2S@2017, organized by UNNAT BHARAT ABHIYAN at IIT Delhi.

- Organized one-day session on "Interview Skills" in collaboration with IBS Business School, Gurgaon for the Final Year students.

- Organized a workshop on **"Google Buzz"**

- An expert lecture was organized on **"**Scopes and Basics of Quality Tools in Industries" where keynote speaker was Dr. Rajeev Kumar Saha, Asst. Prof., YMCA UST, Faridabad

- Organized a workshop on "CISCO Networking" in association with Network Bulls Gurgaon

- Organised many Industrial Visits to CSIR- CEERI, Centre of e-Governance, Mahanagar Telecom Nigam Ltd(MTNL), National Institute of Solar Energy, Gwal Pahari, National Institute of Solar Energy, Gurgaon Huawei, Hero Motor Corp, UNO Minda, , Carrier AC and Refrigeration Ltd, 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.

- Organized summer school on "Microsoft Azure".

- Organized summer school on "Bridging the gap between college and industry".

- Organized summer school on "Assistive Technology."

- Organized summer school on "Internet of Things".

- Organized summer school on "GATE"

- Organized summer school on "VHDL"

- Organized summer school on "Data Science using R".

- NSS volunteers of college visited the Om Shanti Retreat Centre of Brahmakumari's (ORC).

- Organized seven days NSS Annual camp on the theme **"**Cashless Training and Digital India Awareness".

- Students and faculty coordinator of NSS wing had attended International Volunteer Day at India Habitat Centre**.**

- NSS Wing organized Tree Plantation at college campus.

- NSS Wing organized a Blood Donation Camp in association with Rotary Blood Bank Gurgaon.

- Organised "NSS merit certificate distribution ceremony".

- NSS Wing organized Celebrated Rashtriya Ekta Diwas.

- Swachh Bharat Abhiyan was executed in college campus.

- A quiz competition was organized to celebrate the Constitution Day.

- Celebrated Good Governance Day.

- Celebrated 71st Independence Day.

- Celebrated 23rd International Women's Day.

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	45	-	Institution	45
Laboratories	75	-	Institution	75
Seminar Halls	9	-	Institution	9
No. of important equipment's purchased (≥ 1-0 lakh) during the current year.	-	0	Institution	0
Value of the equipment purchased during the year (Rs. in Lakhs)	-	19.54	Institution	19.54
Others	-	102.6	Institution	102.6

4.2 Computerization of administration and library

- All offices are having dedicated computer systems with peripherals like printers, scanners etc.
- Payroll is completely automated.
- College is using DCORE software package to manage teaching, learning, student's details, academic performance of the students and staff details
- 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	34006	7770859	32	25600	34038	7796459
Reference Books	11056	1393847	-		11056	1393847
e-Books	97000	5000	-	5000	97000	10000
Journals	141	1128731	18	154679	141	1283410
e-Journals	8415	85590	-	85590	8415	171180
Digital Database	-	-	-	30000	-	30000
CD & Video	-	-	-	-	-	-
Others (specify)	-	-	-	62390	-	62390

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing 2015-16	1011	11	70 MBPS		1	1	8	
Added 2016-17	NIL		NIL		NIL	NIL		
Total	891	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 video lectures are available at college library & website for faculty & students.

- Training programs for faculty members & students are organized by Spoken Tutorials, IIT Bombay, NITTTR Chandigarh.

- Organized an industrial visit **to Centre For e-Governance, Ministry of Electronics and Information Technology (MeitY), New Delhi**.

- Organized an industrial visit to **Huawei Telecommunications India Pvt. Ltd.**, **Mahanagar Telecom Nigam Ltd (MTNL) and Network Bulls.**

- Organized one day workshop on **"CISCO Networking" in association with** Network **Bulls Gurgaon**.

- Organized guest lecture on **"Information Security" in association with** C-DAC Hyderabad

- Organized a series of workshop on "**Minecraft: Hour of Code"**.

- Celebrated **National Technology Day** sponsored by DST, Govt of Haryana.

- Organized a workshop on "**Google Buzz**" for CSE & IT students.

- Conducted a five - day short term course on **"Wireless & Mobile Communication through ICT"** in collaboration with **NITTTR** Chandigarh.

- Conducted face to face interaction of two AICTE approved (FDP) on **"Pedagogy for Online and Blended Teaching-Learning Process - FDP201x"** under (PMMMNMTT), MHRD, Govt. of India.

- Lecture demonstration on **Scilab** was organized by FOSSEE team, **IIT Bombay** on **12th October 2017.** The program was conducted under the aegis of **Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNMTT), MHRD, Govt of India**. Total 89 remote centres across India attended the live session. 18 faculty

members from various department of **Dronacharya College of Engineering, Gurgaon** attended the session.

- Two faculty members attended a short term course on "Optical Fiber Communication Networks and Troubleshooting" at NITTTR, Chandigarh**.**

- One faculty member attended 7 days Faculty Development Program on "Soft Computing Techniques and Applications (SCoTA-17)" organized by Banasthali University

- One student was selected for The Asia MSP Summit 2018 by Microsoft at Taiwan, Taipei.

- Four students attended a two day workshop on **"**Android Development and Ethical Hacking Workshop" at DTU, New Delhi organized by WAC**.**

- 4 students attended the Global Exhibition on Smart Grid organized by India Smart Grid Forum (ISGF).

- 6 students attended "Global Artificial Intelligence Bootcamp**"** organized at Microsoft Office, Gurgaon**.**

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- 5 students attended the event Hit Refresh - In Conversation with Satya Nadella

- 6 students attended the **"**Mining Summit" organized by CII at Jacaranda Hall, India Habitat Centre, New Delhi.

- 1 student was invited for Technical Session on behalf of Microsoft Technical Community NCR by Kendriya Vidyalaya Sangathan, Delhi Cantt**.**

4.6 Amount spent on maintenance in lakhs :

i) ICT

18.54

ii) Campus Infrastructure and facilities

13.45

iii) Equipment

2.61

iv) Others

36.35

Total:

70.95

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 & SMS to all students regarding various student support services are sent frequently.

5.2 Efforts made by the institution for tracking the progression

- Complete Information of every student is maintained at the department level
- This information is updated fortnightly
- Detailed analysis of the sessional examination is being 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
1598	54	NIL	NIL

(b) No. of students outside the state 768

(c) No. of international students NIL

No	%	
1377	83.35	Men

No	%	
275	16.65	Women

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1306	78	0	549	0	1933	1193	49	3	407	0	1652

Demand ratio   Dropout % 1.84

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

No. of students beneficiaries   966

5.5 No. of students qualified in these examinations

NET		SET/SLET		GATE	12	CAT	0
IAS/IPS etc		State PSC		UPSC		Others	9

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 a one-day workshop on "**Building Your Professional Profile**".

- Organized one-day session on **"Interview Skills"** in collaboration with **IBS Business School, Gurgaon** for the Final Year students.

- Organized summer school on "Bridging the gap between college and industry".

- Organized a program "Inform, Advise and Inspire".

- Conducted Face to Face Interaction of College to Corporate Program "Soft Skills & Workplace Management" organised by IIT, Bombay using A-View.

- Counselling of final year students is being done at a very minute level.
  No. of students benefitted

527

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
130	389	230	44

5.8 Details of gender sensitization programmes

- Celebrated the 23rd International Women's Day.

- 3 female students conducted the session on **"**Microsoft Azure Workshop".

- **Dronacharya College of Engineering Gurgaon** with **NITTTR, Chandigarh** conducted a five - day short term course on **"Wireless & Mobile**

Communication through ICT" under the **National Mission on Education through ICT (NMEICT)** from **30th October to 3rd November 2017.** 21 female faculty members from ECE, CSE, IT & CSIT Departments of **Dronacharya College of Engineering, Gurgaon** attended the short term course.

- 4 female MSP's students organized a one-day workshop on **"Building Your Professional Profile".**

- Female faculty member is the coordinator of Google Developer Student Club**.**

- Microsoft Innovation Center of college organized a series of workshop on **"Minecraft : Hour of Code"** . The key speakers of the workshop were the female Microsoft Student Partners (MSPs).

- Female faculty member attended "Prof. B. S. Garg Felicitation Seminar on Green Chemistry on Human health and Environment" organized by Green Chemistry Network Centre, University of Delhi**,** Delhi.

- 2 female students attended World Biofuel Day-2017 Celebrations at Constitution Club of India**,** New Delhi.

- 1 female faculty member being the Student Branch Counsellor of CSI represented the college at the two day conference 'TechNext India 2018' and received the award "Best Institute of the Year" under the category "Innovative pedagogical approaches and tools"

- 2 female faculty member attended the awareness workshop "Technology Enhanced Learning (NPTEL)" organized by IIT Madras

- Two female faculty members represented college in the "Feedback Session of QEEE Coordinators" at IIT Madras.

- Female faculty members attended one day expert talk on Electrical Solar Vehicle Design and Development organized by the Imperial Society of Innovation Engineers, INDIA (ISIEINDIA) at IIT Delhi

- 1 female faculty member attended one day workshop on "Induction Program" was held at AICTE Head Quarters, New Delhi

- 1 female faculty member attended GDG DevFest 2017 organized by GDG New Delhi at Investopad, Gurgaon**.**

- 1 female faculty member attended one day national seminar on the topic "Stochastic Processes and Applications" conducted by department of statistics, M.D. University, Rohtak on **11th November 2017**

- 1 female faculty member presented the research paper titled " Perturbation of Absorption Spectral Properties of 2,3,5-Tri Chloro Pyridine and 5-Amino - 2-Methoxy

Pyridine by Polar and Non-polar Solvents" in 20th International Conference of International Academy of Physical Sciences (CONIAPS-XX) on Recent Advances in Physical Sciences and Future Challenges, organized by Faculty of Science, Osmania University ,Hyderabad**.**

- 1 female faculty member attended one week Faculty Development Program on Soft Computing Techniques and Applications (SCoTA-17) under the Scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, MHRD, Government of India organized by Banasthali University, Rajasthan

- The project under the guidance of female faculty member of bagged 2nd position in Best Engineering Project Competition 2018 organized by Faridabad Industries Association (FIA)-2018**.**

- Three project teams and a female faculty coordinator participated in "FAER-McAfee Scholar Award Program 2017-18" organized by the Foundation for Advancement of Education and Research (FAER) and got a Project scholarship.

- Two teams under the guidance of female project mentor bagged two prizes in NES Innovation Awards 2018.

- The project "IoT Based Connected Streets in Smart Cities" under the guidance of female faculty member participated in the finale of IoT Challenge 2018 organized by i3indya Technologies in association with Radiance-18 at IIT Bombay was among the top finalists and the team received the hardware kit

- Two students V. Sai Anila(18562), Tamanna Sood(18557) from Microsoft Innovation Center of Dronacharya College of Engineering, Gurgaon**,** got selected in Microsoft Patent Program(MPP**)** for their project " ROUTE FINDER AND COMMUNICATOR FOR BLIND, DEAF AND DUMB" on 28th August, 2017**.** They are among one of the four teams selected worldwide by Microsoft - RESEARCH PATENT.

- Project " Route Finder and Communicator for Blind, Deaf and Dumb" made by female students got selected in Microsoft Patent Program(MPP)

- Project entitled Anti Collision System – INNOTECH under the guidance of female faculty member was awarded as runner up and prize of Rs. 1 lakh in the category **"**Automotive/Public transport" of Interthrone – 2017**.**

- Project titled "SMART POULTRY FARMING SYSTEM" under the guidance of female faculty member got selected to take part in the annual innovation extravaganza Accenture Innovation Challenge.

5.9 Students Activities

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

State/ University level ☐ 6   National level ☐ 1   International level ☐

No. of students participated in cultural events

State/ University level ☐ 2   National level ☐   International level ☐

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

Sports : State/ University level ☐ 1   National level ☐ 1   International level ☐

Cultural: State/ University level ☐ 1   National level ☐   International level ☐

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	30	1840500
Financial support from government	20	
Financial support from other sources	17	850000
Number of students who received International/ National recognitions		

5.11   Student organised / initiatives

Fairs   : State/ University level ☐ 1   National level ☐ 8   International level ☐

Exhibition: State/ University level ☐ 1   National level ☐ 2   International level ☐

5.12   No. of social initiatives undertaken by the students   13

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 certifications and online International Certification done in every semester.

6.3.2 Teaching and Learning

All the class rooms are equipped with LCD Projectors and High Speed Internet connectivity. All classes are divided into two tutorial groups for proper mentoring. Online assignments, PPTs, notes, lab manuals and other information related with subject is available on college website for student reference.

6.3.3 Examination and Evaluation

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

6.3.4 Research and Development

- Students are encouraged for Paper Publications and Paper Presentation.
- Students are encouraged for filing Patents & copyrights
- College has well established R&D Lab with latest equipment's.
- Students are encouraged to participated in various project competitions in state and national level.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Library is maintained digitally.
- Remote centre of IIT Bombay and IIT Kharagpur for conducting FDPs.
- 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.
- Pearson Lab for online certification examination.
- Auditorium having capacity of 500 person.
- All labs are equipped with latest machines and software.
- EDC and Incubation Lab
- All class rooms, tutorials rooms, seminar halls, conference room , laboratories pertaining each department is enabled with ICT tools
- Cafeteria, medical room, sports area adequate vehicle-parking space for students and staff are functioning effectively.

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. Suggestion box is also available on Website.

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 candidates can also through career with us on website 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
* 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 Centre
* Spoken Tutorial (IIT Bombay) - Resource Centre for Faculty Development Program, Online Certification, Awareness Session
* 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
- 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	3
Non-teaching	5
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?

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 disseminate significant tips on **Aptitude Test, Technical Test, HR Interview** etc. in Alumni Connect Programme.

- Alumni also support in Summer Training and Industrial training.

- Alumni visit campus time to time and guide students for projects and research work.

6.12 Activities and support from the Parent – Teacher Association

- Two parent-teacher meetings are held in every semester in college. Parents are given brief about the progress of their ward and also 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.

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

The college is ISO 14000 certified. College is using Water Harvesting in campus. Solar Heating System is used in hostel for heating water in winters. Class rooms are made in such a way that adequate sun light and fresh air comes in all class rooms. Use of plastic items is prohibited in college canteen. Tree plantation activity is organized by NSS Wing of the college.

Criterion – VII

7. <u>Innovations and Best Practices</u>

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

<div style="border:1px solid">

<u>Innovations:</u>

a) Teaching curriculum is as per the Maharshi Dayanand University, Rohtak syllabus. However, all departments conduct a few more practical than prescribed in the syllabus of MDU to enlarge practical knowledge of students. These extra practical are inspired from the current industry demand and motivate them for paper publication and paper presentation on those topics.

b) Spoken tutorial certification from IIT Bombay is introduced for all the students.

c) Faculty members are using NPTEL Videos in their classes for better understanding of the concepts.

d) Facility of virtual labs is available for the students.

e) Assignments are given on-line and all notes, lab manuals; FAQs etc. are available on college website for the reference of the students.

f) Various initiative under different student chapters are organized to channelize the talents of students like CSI, IEEE, ASCE, Entrepreneurship Development cell, Google Developer Group, etc.

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

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- FDP's are organized in collaboration with industries like IIT Bombay, IIT Kharagpur, IIT Madras, Network bulls etc.
- Proper mentoring system is designed.
- Aptitude classes are organized for final year students for better placements.
- Extra classes for academically weak students are planned in off hours.
- Students are encouraged for attending conferences & seminar

</div>

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

- Online Assignments
- Parents Teacher Meeting

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

7.4 Contribution to environmental awareness / protection

- Encourage 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.

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 NAAC till March 2017

- Permanent Affiliation with Maharishi Dayanand University

- Remote Centre of IIT Bombay and IIT Kharagpur for FDPs.

- Students hold top ranks in University exams (In the last 5 years' students have grabbed maximum University ranks in M. D. University).

- Development of students through various programs like online certifications of International level.

- Spoken Tutorial Certification from IIT Bombay,

- Project Competition is organized every year.

SWOT Analysis:

Weaknesses

- Limited linkages with Core Industry

- Need to improve the communication skill of the students.

- Less paper presented by faculty & students in national and international conferences

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SWOT Analysis:

Opportunities

- Entrepreneur Development Cell- The growing interface between entrepreneurship and education is bridging the chasms which make entrepreneurship a distant career option. Entrepreneur Development Cell of the college provides awareness to students about entrepreneurship and its scope for young technocrats.

- Consultancy development Centre. CDC is an Autonomous Institution of the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India set up for promotion, development and strengthening of consultancy skills and capabilities in the country. College in collaboration with CDC deliver certificate course of CDC in Technical Consulting & Management.

- Industrial Visit- Students are provided industrial exposure to give practical knowledge.

- Online certifications course from NPTEL, QEEE, Spoken Tutorials.

- College to corporate program – joint initiative of Cooperate and IIT BombayX

SWOT Analysis:

Threats

- Rapidly changing technology requires more efforts to meet the standard expected by the engineering professionals.

- Students are least interested in core industry.

8. **Plans of institution for next year**

- Placement in core companies will be emphasized.
- Conduct summer school internship on latest technology within the Campus.
- Focus more on research and development.
- Encourage students to participate in various competitions.

Name ___Dr. Sri Krishan Yadav.___
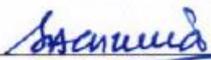
___Signature___

Signature of the Coordinator, IQAC

Name ___Prof.(Dr.) B.M.K.Prasad___

_____

Signature of the Chairperson, IQAC

Principal
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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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