

# UNIVERSITY OF PETROLEUM & ENERGY STUDIES



(ISO 9001:2008 Certified)

## Annual Quality Assurance Report (AQAR)

2016-17

Submitted to:



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

#### I. Details of the Institution

1.1 Name of the Institution

University of Petroleum & Energy Studies

1.2 Address Line 1

Energy Acres, P.O. Bidholi

Address Line 2

Via. Premnagar

City/Town

Dehradun

State

Uttarakhand

Pin Code

248007

Institution e-mail address

registrar@upes.ac.in

Contact Nos.

0135-2776089/54/61

Name of the Head of the Institution:

Dr. Deependra Kumar Jha

Tel. No. with STD Code:

0135-2776089/54/61

Mobile:

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Name of the IQAC Co-ordinator:

Dr. S.R. Das

Mobile:

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IQAC e-mail address:

[srdas@upes.ac.in](mailto:srdas@upes.ac.in), [vpaa@ddn.upes.ac.in](mailto:vpaa@ddn.upes.ac.in),

1.3 NAAC Track ID : EC\_65\_A&A\_72 date 23-10-2013

1.4 Website address:

[www.upes.ac.in](http://www.upes.ac.in)

Web-link of the AQAR:

[www.upes.ac.in/IQAC/index.html](http://www.upes.ac.in/IQAC/index.html)

For ex. <http://www.ladykeanecollege.edu.in/AQAR201213.doc>

1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B	2.71	2009	2013
2	2 <sup>nd</sup> Cycle	B	2.79	2013	2018
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.6 Date of Establishment of IQAC:

DD/MM/YYYY

01/07/2009

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

2016-17

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

- i. AQAR 2013 -14 submitted to NAAC on 03/11/2014.
- ii. AQAR 2014 -15 submitted to NAAC on 30/11/2015.
- iii. AQAR 2015 -16 submitted to NAAC on 22/11/2016.

1.9 Institutional Status

University State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No

(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*)

Not Applicable

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

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Autonomy by State/Central Govt. / University    
 Y N

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

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and  
community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: No.  Faculty   
 Non-Teaching Staff  Students  Alumni  Others

2.12 Has IQAC received any funding from UGC during the year? Yes  No

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

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

Total Nos.  International  National  State  Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

- Improving the basket of elective courses
- Rationalizing the program credits

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
1. Rationalized course codes for all across the university.	1. Implemented
2. Preparation and publication of Academic Manual.	2. In Progress
3. Simplification of the form used for concurrent academic audit.	3. Implemented

4. Simplification of the Student Feedback Form.	4. Implemented
5. Larger number of international students on campus.	5. International students on campus reached 53
6. Increase the faculty exchange programme at both national and international level.	6. Started Erasmus + program with Slovenia
7. Initiate Erasmus Exchange / mobility programme with at least one partner university in Europe.	7. Done with Slovenia
8. More research projects.	8. Research projects started.
9. Publication of one international level journal.	9. Yet to be started
10. Increased frequency of alumni-institution interaction.	10. In Progress
11. Increased frequency of industry-academia interaction.	11. Frequency of industry visitor increased. Tie-up with Xebia for two CSE programs.

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

2.16 Whether the AQAR was placed in statutory body      Yes       No

Management       Syndicate       Any other body

Provide the details of the action taken

- |   |
|---|
| <ol style="list-style-type: none"> <li>1. Introduced new course codes.</li> <li>2. Academic Manual preparation is in progress</li> <li>3. Erasmus + faculty &amp; student exchange started with Europe.</li> <li>4. Achieved an increased number of students 53 on campus.</li> <li>5. Regular meetings/events held with Alumni.</li> <li>6. Increased frequency of industry-academia interaction.</li> </ol> |
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## Part – B

### Criterion – I

#### I. 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	03	00	03	03
PG	29	00	29	29
UG	46	13	59	59
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
<b>Total</b>	78	13	91	91
Interdisciplinary	05	02	07	07
Innovative	44	08	52	52

##### 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

##### (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	91
Trimester	----
Annual	----

##### 1.3 Feedback from stakeholders\*

(On all aspects)

Alumni  Parents  Employers  Students

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.

**Yes, the following programs have undergone with revision in the syllabi as well as in scheme of evaluation and the details are given below.**

- B.Tech(Electronics with IOT based instrumentation)
- B.Tech(Civil with infrastructure development)
- B.Tech(CSE with oil & gas informatics)
- B.Tech(CSE with mobile computing)
- B.Tech(CSE with IOT & smart cities)
- B.Tech(CSE with E-Commerce, retail& automation)
- Bachelor of fine arts with spln in digital arts)
- B.Des(Product design)
- B.Des(transport desing)
- M.Des(Indsutrial design)
- M.Des(transportation design)
- M.Tech(HSE)
- M.Tech(HSE with DM as spln)
- BBA(HR/Finance/mkting/Operations& Project mgmt)
- BBA(Oil& gas mkting)
- BBA(Logistic mgmt)
- BA(Public policy)
- MBA(HR/Finance/mkting/Operations& Project mgmt)
- MBA(Oil & gas mgmt)
- MBA(Energy trading)
- MBA(Aviation mgmt)
- MBA(Logistics & supply chain mgmt)
- MBA(Port & shipping mgmt)
- MBA(International business)
- MBA(Power mgmt)
- MBA(Business Analytics)
- MBA(Infrastructure mgmt)
- MA(Economics with spln in energy economics)
- BA(LLB) Hons
- BBA(LLB(Hons))
- B.Com(LLB(Hons))

**There is well established system in which there are three agencies involved in revision / addition /deletion / modification of the syllabi. Details are as under :**

**Stage 1 : Consultative Committees at Departmental Level** – To make recommendations to Board of Studies.

**Stage 2 : BOS at College Level** – To Analyse inputs from Departmental Consultative Committees & send compiled inputs to Academic Council.

**Stage 3 : Academic Council at University Level** – to take the final decision & disseminate to concerned colleges decisions to implement.

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

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## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
490	350	65	37	38

2.2 No. of permanent faculty with Ph.D.

260
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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
90		1		4		11		106	

2.4 No. of Guest and Visiting faculty and Temporary faculty

88 Guests	52 Visiting Faculty	0 Temporary Faculty
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	69	107	55
Presented papers	170	85	32
Resource Persons	46	38	12

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

1. Access to NPTEL/MOOC – Online video lectures, tutorials etc.
2. Use of Learning Management System (LMS).
3. Use of Black board-online tool for student-faculty interaction.
4. Implementation of students innovation in the form of projects duly funded under the Scheme, “RISE”.
5. Teaching learning through clinical papers like Fundamental of Moot Court, Trial Advocacy, Client-counselling, Mediation Workshop, etc.
6. Co-teaching.
7. Weekly monitoring of faculty’s classroom performance by Associate Deans and Assistant Dean.
8. Use of LMS.
9. Faculty attachment to industry.
10. In situ monitoring of students during SIPs, and obtaining feedback from concerned industry.
11. 15 professional clubs for co-curricular and extra-curricular activities by students.
12. On ground ‘Marketing’ research projects.
13. Special talks by CEOs .
14. On line content development for blended teaching in UG programs.

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

202

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

1. Already implemented online examination system.
2. All evaluated answer scripts including supplementary examination are shown to the students.
3. There is continuous evaluation process of all practical courses and a few in theory courses across all the colleges.
4. The university also conducts project based and workshop oriented examination.
5. Online examination system.
6. The university has also started to show the evaluated answer scripts of end semester examination and supplementary examination to the students.
7. Open Book Examination, Online Multiple Choice Questions.
8. Application based Question Paper.
9. Evaluation of conceptual and analytical understanding.
10. Focus on students' participation in CREs/ presentations.
11. On line tests on Learning Management System platform.
12. Case study based tests.
13. Online Multiple Choice Question based tests.
14. All evaluated Answer scripts are shown to the students by the respective faculty members for both mid-term and end-term examination.
15. Application based question papers pattern is followed.
16. Focus on Students participation in CREs / Presentations during the classroom sessions.
17. Online MCQ, Open book exam.

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

48	100%	---
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2.10 Average percentage of attendance of students

75%
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2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Distinction %	I %	II %	III %	Pass %
B.Tech (Aerospace Engineering) (Specialization: Avionics)	30	53.33	46.67	NA	NA	100
B.Tech (Applied Petroleum Engineering) (Specialization: Gas Stream)	38	55.26	36.84	NA	NA	92.11
B.Tech (Applied Petroleum Engineering) (Specialization: Upstream)	38	65.79	31.58	NA	NA	97.37
B.Tech (Automotive Design Engineering)	61	54.1	45.9	NA	NA	100
B.Tech (Chemical Engineering) (Specialization: Refining & Petrochemicals)	39	61.54	38.46	NA	NA	100
B.Tech (Computer Science & Engineering)(Specialization: Business Analytics & Optimization)	51	39.22	60.78	NA	NA	100
B.Tech (Computer Science & Engineering)(Specialization: E-Commerce, Retail & Automation)	27	37.04	59.26	NA	NA	96.3
B.Tech (Computer Science & Engineering)(Specialization: IT Infrastructure)	46	36.96	63.04	NA	NA	100
B.Tech (Computer Science & Engineering)(Specialization: Open	62	56.45	43.55	NA	NA	100

Source & Open Standards)						
B.Tech (Fire & Safety Engineering)	32	53.13	46.88	NA	NA	100
B.Tech (Instrumentation & Control Engineering)	37	37.84	62.16	NA	NA	100
BBA (Auto Marketing)	14	35.71	57.14	NA	NA	92.86
BBA (Financial Services & Marketing)	39	61.54	38.46	NA	NA	100
BBA (Foreign Trade)	26	42.31	50	NA	NA	92.31
BBA (Oil & Gas Marketing)	43	51.16	44.19	NA	NA	95.35
BBA (Retail Management)	9	55.56	44.44	NA	NA	100
BBA in Aviation Operation	31	54.84	35.48	NA	NA	90.32
BBA Logistics Management	33	45.45	45.45	NA	NA	90.91
MBA (Business Analytics)	16	62.5	37.5	NA	NA	100
MBA (Energy Trading)	25	44	52	NA	NA	96
MBA (Infrastructure Management)	11	90.91	9.09	NA	NA	100
MBA (International Business)	50	48	38	NA	NA	86
MBA (Logistics & Supply Chain Management)	113	52.21	39.82	NA	NA	92.04
MBA (Oil & Gas Management)	93	65.59	32.26	NA	NA	97.85
MBA (Port & Shipping Management)	18	44.44	50	NA	NA	94.44
MBA (Power Management)	42	83.33	16.67	NA	NA	100
B.A., LL.B.(Hons.)(Specialization: Energy Laws)	119	49.58	39.5	NA	NA	89.08
B.Sc. (Petroleum Operations)	5	40	60	NA	NA	100
B.Tech (Aerospace Engineering)	32	56.25	43.75	NA	NA	100
B.Tech (Civil Engineering)(Specialization: Infrastructure Development)	59	30.51	69.49	NA	NA	100

B.Tech (Computer Science & Engineering)(Specialization: Oil & Gas Informatics)	66	37.88	62.12	NA	NA	100
B.Tech (Computer Science & Engineering)(Specialization: Cloud Computing & Virtualization Technology)	53	45.28	50.94	NA	NA	96.23
B.Tech (Computer Science & Engineering)(Specialization: Mainframe Technology)	47	48.94	51.06	NA	NA	100
B.Tech (Computer Science & Engineering)(Specialization: Telecom Informatics)	36	41.67	58.33	NA	NA	100
B.Tech (Electronics Engineering)	56	42.86	55.36	NA	NA	98.21
B.Tech (Energy Technology), LL.B.(Hons.)(Specialization: Intellectual Property Rights)	20	35	65	NA	NA	100
B.Tech (Geo Informatics Engineering)	38	36.84	60.53	NA	NA	97.37
B.Tech (Geo Sciences Engineering)	40	52.5	47.5	NA	NA	100
B.Tech (Material Science Engineering)(Specialization: Nanotechnology)	39	33.33	64.1	NA	NA	97.44
B.Tech (Mechanical Engineering)	64	53.13	46.88	NA	NA	100
B.Tech (Mechatronics Engineering)	54	44.44	55.56	NA	NA	100
B.Tech (Power System Engineering)	61	39.34	59.02	NA	NA	98.36
B.Tech(Computer Science & Engineering), LL.B.(Hons.)(Specialization: Cyber Laws)	16	50	50	NA	NA	100
BBA, LL.B.(Hons.)(Specialization: Corporate Law)	51	52.94	43.14	NA	NA	96.08
LLM	19	5.26	84.21	NA	NA	89.47

M.Des. (Industrial Design)	10	70	30	NA	NA	100
M.Des. (Product Design)	5	80	20	NA	NA	100
M.Des. (Transportation Design)	17	41.18	52.94	NA	NA	94.12
M.Plan	7	28.57	42.86	NA	NA	71.43
M.Tech (Aerospace Engineering) (Specialization: UAV)	12	8.33	25	NA	NA	33.33
M.Tech (Artificial Intelligence & Artificial Neural Networks)	7	42.86	28.57	NA	NA	71.43
M.Tech (Chemical Engineering)(Specialization: Process Design Engineering)	21	80.95	0	NA	NA	80.95
M.Tech (Computational Fluid Dynamics)	21	4.76	0	NA	NA	4.76
M.Tech (Embedded Systems) (Specialization: Wearable Technology)	5	80	20	NA	NA	100
M.Tech (Energy Systems)	25	48	48	NA	NA	96
M.Tech (Health, Safety & Environment)	43	97.67	2.33	NA	NA	100
M.Tech (Health, Safety & Environment)(Specialization: Disaster Management)	11	81.82	18.18	NA	NA	100
M.Tech (Nuclear Science & Technology)	8	12.5	0	NA	NA	12.5
M.Tech (Petroleum Exploration)	24	70.83	25	NA	NA	95.83
M.Tech (Pipeline Engineering)	25	64	32	NA	NA	96
M.Tech (Renewable Energy Engineering)	15	66.67	20	NA	NA	86.67
M.Tech (Robotics Engineering)	9	55.56	22.22	NA	NA	77.78
M.Tech (Rotating Equipment)	16	56.25	25	NA	NA	81.25
M.Tech (Structural Engineering) (Specialization: Offshore	17	41.18	41.18	NA	NA	82.35



Structure)						
MA (Economics)(Specialization: Energy Economics)	12	83.33	16.67	NA	NA	100
MBA (Aviation Management)	15	46.67	53.33	NA	NA	100

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

- |  |
|--|
| <ol style="list-style-type: none"> <li>1. Concurrent Academic Audits.</li> <li>2. Random check of Question Papers and Answer Sheets.</li> <li>3. Audit of syllabi by external Academicians.</li> </ol> |
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2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	-
UGC – Faculty Improvement Programme	34
HRD programmes	-
Orientation programmes	216
Faculty exchange programme	01
Staff training conducted by the university	127
Staff training conducted by other institutions	-
Summer / Winter schools, Workshops, etc.	16 workshops
Others	-

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	244	-	40	-
Technical Staff	64	-	9	-

## Criterion – III

### 3. Research, Consultancy and Extension

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

Faculty Internship - ABHIGYAT

Asian Control Conference (ASCC)

International Conference on Management of Infrastructure

Research Centres – Council of European Energy Regulator (CEER), Canadian Investor Protection Fund (CIPF)

KSP (Knowledge Sharing Platform) sessions and Research Seminars conducted wherein faculties share their knowledge and research findings and receive valuable inputs and suggestions.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	11	8	4	37
Outlay in Rs. Lakhs	54	30.52	302.6	2200.009

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	04	16	-
Outlay in Rs. Lakhs	2.8	7.31	39.55	-

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	167	30	-
Non-Peer Review Journals	03	-	-
e-Journals	37	01	-
Conference proceedings	180	18	-

#### 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 (Rs. In Lacs)	Received (Rs. In Lacs)
Major projects		DST,CEFIPRA,DST-SERB	302.6	68.17
Minor Projects		UEPPCB,PLR-Chambers	4.98	-
Interdisciplinary Projects		NITI Aayog MSME	On Cost Basis 01.00	Received
Industry sponsored		FMC PLR Chamber	01.00 04.00	-
Projects sponsored by the University/ College		UPES-SEED	34.56	34.56
Students research projects <i>(other than compulsory by the University)</i>	-	-	-	-
Any other(Specify)	-	-	-	-
<b>Total</b>			<b>615.42</b>	<b>172.65</b>

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

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

Level	International	National	State	University	College
Number	2 (ICMI, NEW)	1 (ASCC)	-	-	-
Sponsoring agencies	MNRE, PTCUL,	NABARD &	-	-	-

	UJVNL	HMNEH			
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3.11 No. of conferences

organized by the Institution

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	5
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

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
23	-	14	-	9	-	-

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

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

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

JRF  SRF  Project Fellows  Any other

3.21 No. of students Participated in NSS events:

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

3.22 No. of students participated in NCC events:

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

3.23 No. of Awards won in NSS:

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

3.24 No. of Awards won in NCC:

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

3.25 No. of Extension activities organized

University forum	<input type="text" value="-"/>	College forum	<input type="text" value="7"/>		
NCC	<input type="text" value="-"/>	NSS	<input type="text" value="-"/>	Any other	<input type="text" value="-"/>

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

In an attempt at community service UPES under the umbrella of Corporate Social Responsibility, has undertaken several steps as adoption of girl child, spreading education, skill development, women empowerment, extending health and medical care, solving electricity and water problems and carrying out environment protection and disaster management activities. Few of the round the year CSR initiatives are listed below:

- (1) When it comes to social causes, University of Petroleum & Energy Studies is always a step ahead. We at UPES always take new initiatives to spread the awareness among our students about social causes and how they can help the community directly or indirectly. Annual Blood Donation Camp organized by UPES is a part of this initiative since 2007. Until date, UPES has donated 10,015 units of blood that can save lives of more than 30000 people.
- (2) Awareness workshop on “Property Dispute” in nearby village organized by Legal Aid Clinic on April 23, 2017.
- (3) UPES has adopted 51 girls from nearby villages who are fondly addressed as 'UPES Daughters'. They are supported by UPES to facilitate their education and overall personality development. Various personality development program like Training on Computer Skills, Communication Skills, Drawing and Painting, Dancing, Aerobics & Yoga, showing inspirational movies like “DANGAL”, “PURNA” etc. were organized.
- (4) We continued our project 'Sankalp' involving UPES student volunteers to teach the children of primary schools located within 10 kms from UPES campus. Since 2015, more than 3000 children enjoyed and cherished this benevolent service.
- (5) Project 'Samvedna' is our ongoing effort, which is focused towards providing education along with mid-day meal to 50 children belonging to the labourer families engaged in the construction work at UPES campus.
- (6) Project 'Abhilasha', initiated in 2004, provides free and effective coaching in Physics, Chemistry and Mathematics for JEE to students from various districts of Uttarakhand with free boarding and lodging facilities. Project Abhilasha 2017 commenced on 1<sup>st</sup> June and continued till 30<sup>th</sup> June. The participatory students came from Nainital, Srinagar, Rudraprayag, Pauri - Garhwal, Almora, Chamoli, Dehradun etc. Till 2017, about 800 students of Uttarakhand availed the opportunity and a number of students cracked NIT, NIIT and other admission tests.
- (7) The UPES's Free Mobile Medical Van (FMMV) provides medical facilities for villages in the vicinity of UPES. Since its initiation in 2008 to September 2017, more than 11,000 villagers got benefitted through this project.
- (8) UPES launched Skill Development project at the district Jail, Dehradun for the Jail inmates. The project focused to reformation and social integration of prisoners post their release who mostly are shunned by the society. Since vocational training courses form an integral part of the reformation programmes for the prisoners, UPES launched the vocational training program for the prisoners on Computer Hardware and Networking. On successful completion of the training, the participants

were provided with certificates. With the skills and expertise the inmates acquired through this training and with the certificates in hand, it would be easier for these men to work anywhere.

(9) “The smallest act of kindness is worth more than the greatest intention.” Keeping this in its pulse, huge no. of items comprising stationaries, clothing, woolens, toys etc. were collected and were donated to the poor children and their families of various Primary schools located in and around UPES campus. The Donation Drive team comprising UPES students, staff and faculties put in all their efforts to make sure that the event reached each and every corner and thereby, making this event scale the sky.

(10) It is said that a child’s imagination is unbridled. UPES CSR extended this experience to our adopted daughters and a few primary school children on a trip to Durgabari, for contesting in Drawing & Pot Painting competition. This contest was an amazing opportunity for the imagination of the young minds to coalesce with deep aesthetics of the seasoned ones and the children were awarded with many prizes.

(11) A Book Donation Camp was organized at Aasraa Trust, Vasant Vihar, Dehradun. A large number of books comprising Childrens’ illustrated Encyclopedia; Geography : a visual encyclopedia; Animal definitive Visual guide; Visual Atlas of the World; History definitive visual guide; Prehistoric; Eyewitness series of books (Ancient Greece, Ancient Egypt, Weather, Volcano and Earthquake, Early humans, Dinosaur); Smithsonian Natural History and encyclopedia on The Complete Human Body. The books were distributed to the students of Aasraa Trust, an NGO who dedicatedly works for providing opportunity and education to children from underprivileged backgrounds mainly street children and Rag pickers. These Children who are deprived from education due to various reasons are brought to the Aasraa trust and given the education and support for their future studies. Books donated were aimed towards providing Visual references to many interesting facts about various subjects of History, Geography and Life science. The motive of this activity was to introduce these wonderful set of books to these young minds in order to stimulate their hidden talent. The purpose was very well achieved after looking a delightful smile right across the faces of these kids.

## 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	40.3 Acres	-	Own	40.3 Acres
Class rooms	174	-	Own	174
Laboratories	124	05	Own	129
Seminar Halls	04	-	Own	04
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	88	32	Own	120
Value of the equipment purchased during the year (Rs. in Lakhs)	5457.25	882.93	Own	6340.18
Others-Value add during the AY 2016-17 in Building (Rs.in Lac)	10587.78	1054.61	Own	11642.39
Others-Value add during the AY 2016-17 in F&F (Rs.in Lac)	2153.27	315.40	Own	2468.67
Others-Value add during the AY 2016-17 in Library Book (Rs.in Lac)	252.40	79.95	Own	332.36
Others-Value add during the AY 2016-17 in C&P (Rs.in Lac)	1469.24	378.03	Own	1847.26
Others-Value add during the AY 2016-17 in Software(Rs.in Lac)	146.06	44.94	Own	191.00
Others-Value add during the AY 2016-17 in class room Equipment (Rs.in Lac)	2225.66	194.51	Own	2420.17
Others-Value add during the AY 2016-17 in office Equipment (Rs.in Lac)	1762.35	175.31	Own	1937.66



#### 4.2 Computerization of administration and library

1. Library administration and inventory management are automated using KOHA Integrated Open source software.
2. A repository has been developed for archiving dissertations, Phd theses.
3. RFID enabled automated automation along with self-service kiosk and security system is under implementation.
4. Access to resources through INFLIBNET e-Shodh Sindhu: Consortium for Higher Education Electronic Resources.
5. Access to resources through DELNET for Document Delivery services and Inter-Library Loan services.
6. Access to National Digital Library.

#### 4.3 Library services:

	Existing		Newly Added		Total	
	No.	Value	No.	Value (Lakhs)	No.	Value
<b>Text Books</b>	<b>75442</b>	<b>476.12</b>	<b>16522</b>	<b>88.41</b>	<b>91446</b>	<b>653.39</b>
<b>Reference Books</b>	<b>41127</b>		<b>12770</b>	<b>88.86</b>	<b>55860</b>	
<b>e-Books</b>	<b>593</b>	<b>30.42</b>	<b>537</b>	<b>26.16</b>	<b>1130</b>	<b>56.58</b>
<b>e-Journals</b>	<b>13258</b>	<b>122.75</b>	<b>3666</b>	<b>58.37</b>	<b>16924</b>	<b>181.12</b>
<b>E-database</b>	<b>19</b>	<b>122.75</b>	<b>7</b>	<b>58.37</b>	<b>26</b>	<b>181.12</b>
<b>CD &amp; Video</b>	<b>179</b>	<b>1.05</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.05</b>
<b>Printed Journals</b>	<b>125</b>	<b>20.18</b>	<b>28</b>	<b>4.91</b>	<b>153</b>	<b>25.09</b>
<b>Others (Theses)</b>	<b>287</b>	<b>nil</b>	<b>98 (soft copies)</b>	<b>-</b>	<b>385</b>	<b>-</b>

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	580	23	1174 Mbps	13	1	----	----	----
Added	300	7	160Mbps	6	-----	-----	----	----
Total	880	30	1334Mbps	19	1	-----	----	----

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

Regular and routine training on Learning Management, Hybrid blended learning and training on blackboard system were given to faculty members.

4.6 Amount spent on maintenance in lakhs :

i) ICT	283.00
ii) Campus Infrastructure and facilities	1360.82
iii) Equipments	436.63
iv) Others	11.07
<b>Total :</b>	<b>2091.52</b>

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

1. SRE plays a major roll to council the students through Facilitation centre, SMS, e-mail and F2F as required.
2. The university also publishes Student Bulletin highlighting the relevant informations which is made available on student portal.
3. All the notifications are communicated to the student through dedicated student portal.
4. UPES does have a system for student support and mentoring. Under the aegis of Directorate of Student Affairs, we cover disciplining the students, redressing their grievances, organizing sports and cultural and welfare activities and maintaining and updating student’s database.
5. Team DSA is headed by Professor cum Director Student Affairs. Then we have Asst. Director Student Affairs, Associate Proctor, Senior Manager- Student Welfare, Senior Sports Officer, Senior Student Affairs Officer and Sports Officer who are responsible for carrying out related responsibilities. At University of Petroleum and Energy Studies, Dehradun, we have various Colleges and Schools viz; College of Engineering, School of computer science , College of Management, College of Legal Studies and School of Design Studies. DSA system reaches to individual Colleges through the respective College Proctors and Cultural Conveners. Each College has a set of College Proctors and a Cultural Convener to look after intra college discipline and cultural activities respectively and also to work in an integrated manner with other College Proctors and Cultural Conveners for University events.
6. Along with the above mentioned functioning areas of DSA, team DSA has one more very important role to function. It is providing support to students and their families in cases of emergency specially RTA cases.
7. UPES has multipronged approach to enhance awareness about Student Support Services amongst our students. Apart from using regular communication electronically (e-mode and m-mode), we also have a unique “triad system” of “Students Placement Representatives (SPRs)”, “Placement and Internship Coordinators (PICs)” and “Career Services Officers (CSOs)” to ensure smooth dissemination of right information and support services reach students.

## 5.2 Efforts made by the institution for tracking the progression

The final result after each examination cycle is shared with the colleges for appropriate remedial action wherever necessary.

### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
9420	1332	338	

### (b) No. of students outside the state

9602

### (c) No. of international students

76

Men	No	%	Women	No	%
	8610	77.64		2480	23.36

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
3410	29	201			3640	3193	73	574			3840

Demand ratio

7.43

Dropout % - 3.9%

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

Courses in BA (Public Policy) curriculum are designed as coaching modules for central services exam (IAS, IFS, PCS, etc.).

External faculty is deployed to teach these courses.

No. of courses as coaching modules for IAS entrance examination.

Every engineering department is guiding their students by providing the extra classes for Competitive examinations like GATE, IES etc. with their faculty members.

No. of students beneficiaries

126

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

NET	8	SET/SLET	N/A	GATE	9	CAT	0
IAS/IPS etc.	N/A	State PSC	01	UPSC	0	Others	5

### 5.6 Details of student counselling and career guidance

1. Co-curricular and extra-curricular activities and competitions.
2. On ground research based projects.
3. M3 to develop team building, self-belief and competitive spirit.
4. PEP and PSI towards overall personality development.
5. Orientation Program.
6. Aiming for star program to short list the most competitive students.
7. Students' Bulletin.
8. Thrust on presentations by students to develop self-confidence.
9. Institutionalized use of library broaden professional horizon.
10. Enhanced number of guest faculty and domain experts from industry.
11. CEOs' talks on matters professional.
12. OPI Scoring.
13. Once in every 20 students there exists student mentor who will take of their academic and personal issues.
14. Department conducts placement drive classes and also for GATE examination.
15. All the pre-final year students connect with Career Services Office for regular guidance with respect to career opportunities for them. The Career Services Officer/s assigned to handle a particular domain (and hence expertise to counsel the students), handle their queries regarding their career. With the help of Student Placement Representatives (SPRs), the Career Services Officers (CSOs) also engage in the counselling of the students of respective programs.

No. of students benefitted

1932

### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
354	1596	1258	NA

## 5.8 Details of gender sensitization programmes

During the orientation programs for the first year students, we cover the topic of gender sensitization as well sexual harassment. Generally, the proctorial team covers these topics but our physiologist also covers this in detail. More than 20 such presentations are delivered over a span of 15 days during the orientation program. Other than these presentations, special events are also clubbed with the annual fest at the University.

## 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	607	89,97,609
Financial support from government	16	-
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

5.11 Student organised / initiatives

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

5.12 No. of social initiatives undertaken by the students

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

## Criterion – VI

### **6. Governance, Leadership and Management**

6.1 State the Vision and Mission of the institution

#### **Vision**

To be an Institution of Global standing for developing professionally competent talent contributing to nation building.

#### **Mission**

1. Develop industry focused professionals with global outlook in Energy, Infrastructure, Transportation, IT and allied sectors.
2. Deliver world class education meeting or preferably exceeding students' expectations.
3. Inculcate integrative thought process among students that draws professional respect.
4. Develop knowledge creation environment through training, research & development, and consultancy.
5. Facilitate effective interactions among faculty and students, and foster networking with stake-holders.
6. Practice and promote high standards of professional ethics, transparency and accountability at all levels.
7. Develop Environmentally sustainable & reciprocal relationship with society at large.

## 6.2 Does the Institution has a management Information System

UPES has a Management Information System.

Every month IT department publishes the MIS and takes the preventive control measures for all the services being provided.

Fortnightly MIS by all departments to University Management are being sent.

Weekly MIS on academic delivery, highlighting academic audit findings.

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

### 6.3.1 Curriculum Development

Curriculum development in UPES is done through a 3 stage process. At stage 1, a Departmental Consultative committee resolves the development of any new course or syllabus including modifications of any ongoing course syllabus, if necessary. This committee consists of the faculty members of the concerned department, one industry member and one academician as external experts, selected alumni and students.

During stage 2, at college level Board of Studies (BoS) meeting is held along with all HoD's, senior faculty members and invited experts from industry/ Academia. The recommendation of departmental consultative committee meeting are discussed in BoS and finalized.

At stage 3, the recommendations endorsed by the BOS is then tabled at the meeting of the University Academic Council for approval or rejection, as the case may be. The new or modified curriculum or the syllabus is then conveyed to the concerned college for implementation.

Inputs taken from Professors from institutions of National and International repute, Govt. research organizations, experts from industries, Alumni and domain experts as a part of dept. consultative committee and Board of studies members in framing the syllabus.

Review of feedbacks obtained from university stake holders like students, recruiters to get ourselves updated with recent trends in industry developments.

Periodic interaction with the students by HOD (once in a month).



### 6.3.2 Teaching and Learning

Regular classes being monitored by Associate Head, Program Heads and Director.

Use of LMS. LMS based sharing of study material and project based research by students.

Participation in co-curricular activities.

Participation in co-curricular and extra-curricular competitions organized by other universities and institutions.

Regular counselling by faculty.

Periodic class/surprise tests and quizzes.

Case based teaching pedagogy.

Regular Faculty Development Programmes.

Industry related inputs to faculty to enable them to share the learning with students.

Motivating the students to publish research papers, file patents even at UG level.

Use of black board for effective student faculty interaction through online mode apart from conventional teaching.

Moving towards students centric learning.

Use of virtual labs.

Online certification.

### 6.3.3 Examination and Evaluation

1. Auto evaluation of few online courses.
2. Showing Answer scripts after evaluation to the student.
3. Online submission of question papers to maintain the confidentiality of the process.
4. Through conducting remotely proctored online mode examination for PhD course work that scholars can appear globally from anywhere.
5. Online recording of FRC member's comments for Ph.D synopsis and abstract presentation.
6. Online submission of question paper.
7. Centralized evaluation for common papers.
8. Showing answer scripts after evaluation to students, for all mid-semester and end-semester examinations.
9. Online examination for open electives, Environmental science and computer programming, design thinking and dynamic paradigm.
10. Continuous evaluation of labs.

### 6.3.4 Research and Development

Article submissions, according to the publication guidelines of university to indexed/UGC listed journals.

Publishing research papers in reputed and peer reviewed journals and proceedings of international conferences duly technically sponsored by IEEE, Springer etc. by both faculty members and students.

Patent filing and continuous involvement in sponsored research projects in association with funding agencies and consultancy.

Innovative students projects.

Active participation of students at National and international level competition and achieving great success. Students secured first position in CANSAT 2017 conducted by NASA.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

ISO 9001 procedures are followed for documentation and processes.

### 6.3.6 Human Resource Management

Automation of Leave Application (Short Leave this year) which led to improved quality of Leave & Attendance Report.

### 6.3.7 Faculty and Staff recruitment

1. Industry attachment of selected faculty members.
2. Special training sessions by industry experts.
3. Need based analysis is done by periodic interaction with industry experts. Based on the analysis, domain experts are recruited at various capacities.

### 6.3.8 Industry Interaction / Collaboration

- Special Guest Lectures by Industry Experts.
- UPES organized a round table on law on May 7, 2016 at the Indian Habitat Centre, New Delhi on **“SKILLING LEGAL TALENT FOR EMERGING AREAS”**.
- Through Abhigyat program, faculty members are sent to industries for getting trained into the cutting edge technologies. In this year 37 faculty members are sent through this program. Also university has signed MOU with 03 industries.

### 6.3.9 Admission of Students

To get admission in Legal Studies Program, All India Entrance Examination followed by group discussions and personal interviews were introduced.

Merit based admission through online counselling thereby able to scroll down across the country in four counselling centres (Dehradun, Delhi, Lucknow and Patna).

6.4 Welfare schemes for

Teaching	Health Insurance Scheme, Birthday Gift Scheme, Late Sitting & Comp. Off Policy, Fee Concession for wards of employees, incentive for acquiring higher education in service, Dedicated Service award Scheme.
Non teaching	Health Insurance Scheme, Birthday Gift Scheme, Late Sitting & Comp. Off Policy, Fee Concession for wards of employees, incentive for acquiring higher education in service, Dedicated Service award Scheme.
Students	Financial Aid for students who lose their earning parents after taking admission at UPES.

6.5 Total corpus fund generated

Rs. 45.52 cr

6.6 Whether annual financial audit has been done

Yes

No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	E & Y LLP	Yes	Academic Monitoring Committee of respective colleges
Administrative	Yes	E & Y LLP, ISO, OHSAS	-	-

6.8 Does the University/ Autonomous College declares 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?

1. System of attendance criteria (Min.) for appearing in the end semester examination.
2. Online Examination on HBO platform for some of the courses.
3. Online submission of question papers duly vetted by HOD.
4. Compressed summer school for debarred and failed students.
5. Online submission of question papers.
6. System of attendance criteria (minimum) for appearing in end- term examinations.
7. Showing evaluated answer scripts to students for mid-term as well as end term examinations.
8. Using technology for conducting online courses.
9. Using technology to conduct online tests.
10. Introduction of 10 point grading scale for examination.
11. Maintaining the result declaration within one month from the start of examination.
12. Online class test are conducted for B.Tech first Year.

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

1. Effective organizational structure.
2. Delegation of authority at appropriate levels.
3. Full autonomy to constituent colleges for design and development of syllabi and manner of course conduct.

6.11 Activities and support from the Alumni Association

Organized Alumni meets.  
Contribution in revision the curriculum.  
Periodic talks for motivating the current students.

#### 6.12 Activities and support from the Parent – Teacher Association

Parents have been informed well about their wards with respect to students performance, regularly in attending the classes/labs/tutorials etc. through SMS/telephone call from class coordinators and in turn through HOD if needed.

#### 6.13 Development programmes for support staff

1. Training on enhancement of technical skills and improvement of effectiveness of team members.
2. LLEA training program for leadership development at manager level.
3. Training Programs conducted for support staff such as Effective Communication Skills program.
4. Regular training on relevant softwares.
5. Development programs are conducted for staff members to improve their communication skills and body language.

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

1. Tree Plantation.
2. Posters Competition.
3. Campus is strictly a No Smoking Zone.
4. Earth Day Celebration – to make item from waste.
5. Installation of Solar panels for effective distribution of electric power and use of battery operated vehicles for internal commutations within the university.

## 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.

1. Implemented Smart Degree for graduating students from 2017 – Onwards.
2. Incorporated Aadhar card number and student photograph in Smart Degree as per the guidelines of UGC.
3. Online e-verification of documents.
4. Webinars; conducted by faculty members on topics of relevance.
5. E-library and online database.
6. Use of Blackboard as learning management system for effective student – teacher interaction.
7. Online class tests and open book examination for B.Tech (Chemical Engineering).

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

Planned Target-2016-17:-

### **COES**

1. Sanction of more funded research projects.
2. Attracting more number of international students
3. More students under student exchange programs.
4. Alumni institution interaction once in quarter year.
5. Increased industry-academia interaction. Able to send the 37 faculty members under Abhigyaat program.
6. The concept for implementation of smart degree is with specialized security features and for life time preservation.

### **COLS**

7. To invite the legal experts for special session for respective courses
8. Publication of Research Papers -50
9. Presentation of paper in National/International Organization of Seminar/conference – 45
10. 3 International Seminar /Conferences/workshop
  - Law week
  - Law day
  - World IPR Day
11. Organization of Moot Court-3
  - Dr. Paras Diwan National Moot Court Competition-1No.
  - Intra Moot Court Competition-1No.
  - Novice Moot Court Competition-1No.
12. Mediation Workshop-2 No
13. Parliament Debate Competition-1 No
14. Essay Writing Competition-2 No.
15. Legal Awareness Program-2 No.
16. Trial Advocacy-2 No.
17. Client counselling competition-1 No.
18. Discussion panel of Indian States Competition-1 No.
19. Legal Quiz Competition-1 No.

Action taken report:- All the activities planned where achieved.



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

1.

a. **Objective:** Implementation of smart degree.

b. **Context/Practice:** Under this process, students get their degree/certificate with superior features i.e. superior synthetic resin quality of paper, engraving of logo on the certificate, water & heatproof quality etc.

2.

a. **Objective:** Aadhar card and student photograph in smart degree.

b. **Context/Practice:** As per suggestion of UGC.

3. Focus on Clinical Legal education.

4. Abhigyaat Faculty Internship.

5. Application based teaching and research.

6. Continuous promotion of Research and supporting the students for their innovative ideas through "RISE".

7. Rigorous monitoring of quality maintenance in Teaching & learning.

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

#### 7.4 Contribution to environmental awareness / protection

1. All the students who either participate or organize any activity conducted by Directorate of Student Affairs our administrated a pledge of saving the environment and also spreading awareness about the same.
2. On an average more 37% of total student strength participates in activities organized by DSA department.
3. During the Annual Cultural / Technical Festivals we ensured that the students participate Clean.
4. Special Quiz / Nukad Nataks were organized on the topic during the annual cultural fest.
5. Tree Plantation.
6. Poster Competition.
7. Awareness Programmes.
8. Energy saving through the use of solar energy and moving towards the use of LED's.
9. Planting of more saplings.

7.5 Whether environmental audit was conducted?

Yes

No

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

**Strengths: -**

Well-established domain programmes - Infrastructure - Skilled faculty - Pan-India exposure - Highly dedicated staff, both academic and non-academic - Industry academia interactions.

**Weaknesses: -**

Location - Non-availability of adequate land for further expansion of facilities.

**Opportunities: -**

Collaboration with foreign universities - Joint research with national and international institutes - Offering of Architecture programmes.

**Threats: -**

Govt. Regulatory Regime, Shift in focus of Engineering aspirants, Restriction of funds from many govt. agencies, Restriction on collaboration with foreign universities, **Strengths:** Dedicated and skilled faculty and staff, good academic infrastructure, Dedicated labs with sophisticated instruments, **Weakness:** Paucity in the number of sanctioned projects from Govt. funding agencies, **Opportunities:** Collaborative research with institutions and research organizations. **Threats:** Shift in focus of Core engineering stream aspirants.

## 8. Plans of institution for next year

S.No.	Criterion	Plan of Action
1.	Curricular Aspects	<ul style="list-style-type: none"> <li>i) Implement OBE in all programmes – all across University</li> <li>ii) Review of existing curriculum</li> <li>iii) Institutionalize stakeholders feedback mechanism for curriculum development</li> </ul>
2.	Teaching-Learning & Evaluation	<ul style="list-style-type: none"> <li>i) Institutionalize Multi-Disciplinary Projects</li> <li>ii) Introducing Social Internship</li> <li>iii) Introducing Innovative continuous evaluation process</li> </ul>
3.	Research Innovations and Extension	<ul style="list-style-type: none"> <li>i) Restructuring of virtual R&amp;D centers</li> <li>ii) Reforming Ph.D. regulations/process</li> </ul>
4.	Infrastructure and Learning Resources	New Journal/Database subscription.
5.	Student Support and Progression	<ul style="list-style-type: none"> <li>i) Strengthen student facilitation center</li> <li>ii) Reviewing Mentor – Mentee system</li> <li>iii) Result analysis. Support system for slow learner</li> <li>iv) To set-up coaching support for preparing competitive exams</li> <li>v) Workshop on gender sensitization/time management/stress management etc.</li> </ul>
6.	Governance, Leadership and Management	<p>Initiate/identify quality improvement strategies adopted by the Institution:</p> <ul style="list-style-type: none"> <li>i) Curriculum Design</li> <li>ii) Teaching &amp; Learning</li> <li>iii) Examination &amp; Evaluation</li> <li>iv) Research &amp; Development</li> <li>v) Library, ICT and Physical infrastructure</li> <li>vi) Human Resource Management</li> <li>vii) Faculty &amp; Staff recruitment</li> <li>viii) Industry interaction/collaboration</li> <li>ix) Admission of students</li> <li>x) Placement of students</li> </ul>
7.	Institutional Values and Best Practices	Going forward with 'CAFÉ' one of the best practice identified.

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Dr. Subir Ranjan Das  
Coordinator, IQAC

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Dr. Deependra Kumar Jha  
Chairperson, IQAC

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**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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