

The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

AQAR for the year (*for example 2013-14*)

July 2016 to June 2017

1. Details of the Institution

1.1 Name of the Institution

Graphic Era (Deemed to be University)

1.2 Address Line 1

566/6 Bell Road

Address Line 2

Clement Town

City/Town

Dehradun

State

Uttarakhand

Pin Code

248002

Institution e-mail address

vicechancellor@geu.ac.in

Contact Nos.

+91-135-2643421, 2642727

Name of the Head of the Institution:

Prof (Dr.) L M S Palni

Tel. No. with STD Code:

+91-135-2643421

Mobile:

+918475996514

Name of the IQAC Co-ordinator:

Prof (Dr.) Pravin Patil

Mobile:

09760010201

IQAC e-mail address:

dr.patil@geu.ac.in

1.3 NAAC Track ID (For ex. MHC0GN 18879) UAUNGN 11461

OR

1.4 NAAC Executive Committee No. & Date:

EC/71/A&A/251 dated Nov 16, 2015

1.5 Website address:

www.geu.ac.in

Web-link of the AQAR:

<http://www.geu.ac.in/iqac/reports.aspx?id=5>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.23	2016	Nov 15, 2020
2	2 nd Cycle	-	--	-	-
3	3 rd Cycle	-	-	-	-
4	4 th Cycle	-	-		

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

09-04-2014

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC: *Not Applicable*

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 ☐

UGC (university under Section 3 of UGC Act 1956)

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)

Biotechnology

1.11 Name of the Affiliating University (*for the Colleges*)

NA

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

Autonomy by State/Central Govt. / University

NA

University with Potential for Excellence	-	UGC-CPE	-
DST Star Scheme	-	UGC-CE	-
UGC-Special Assistance Programme	-	DST-FIST	-
UGC-Innovative PG programmes	--	Any other (<i>Specify</i>)	DST-TBI UCOST- STEP
UGC-COP Programmes	-		

2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	2
2.3 No. of students	3
2.4 No. of Management representatives	1
2.5 No. of Alumni	2
2. 6 No. of any other stakeholder and community representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	2
2.9 Total No. of members	20
2.10 No. of IQAC meetings held	01

2.11 No. of meetings with various stakeholders: students Faculty

Non-Teaching Staff 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

Sample of themes:

Elements of Hydro Powerplant, River Training Techniques: Fundamentals, Design and Applications, Geospatial Technology and Applications, Role of Civil Engineers in Wildlife Conservation, How to Deal with College Stress and Manage Stress, Future Power Systems: Adapting to New Challenges, Managed Pressure Drilling, Offshore Oil and Gas export Pipeline Design, Frontiers in Bioenergy Production & Processing for Meeting Climatic Change Issues in 21st Century, Big Data and Applications, Professional Skills Development, Orientation cum Interaction, Java in IT Industry, Workshop on emotional Intelligence, Biodiversity act, Developing Employability skills in hospitality, 'Effect of Diet on Health and Behavior, Financial Education and Awareness (an initiative by SEBI), Gearing up for hospitality industry, Mind Body Relationship, **NUCLEI AND THE COSMOS**, Digital Marketing, Start up/Stand up/Mudra, Android Programming, Hands on Training in Plant Tissue Culture and Microbial Interactions, Training programme on Reservoir Modeling and Simulation, Workshop on Industry Skill Up-gradation through TATA Competency centers, Tata Technology Training Product design through CREO, Tata Technology Training Product design through CATIA, Tata Technology Training Product design through PLM Technology etc.

2.14 Significant Activities and contributions made by IQAC

- Long term perspective and growth strategy/plan
- ICT enabled teaching/ learning
- Introduction of skill based job oriented course.
- Quality research output from UG/PG & PhD research scholar as well as from faculties.
- Enhancement of university society linkages through extension activities.

- Plan for regular academic audit
- Tap potential of alumni
- Counselling of students
- Motivation for healthy living and ethics
- Submission of research proposals to various funding agencies
- Motivation for innovation and encouragement for IPR, the policy for which be formulated
- E-governance initiatives
- Increase of hostel accommodation and transport facilities for students
- Improvement in transport facility
- Strengthen Industry university partnership
- Optimal utilisation of infrastructure for students
- Sensitisation of quality in education through seminar, workshop, FDP etc.

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 Boost research activities in terms of paper publication, research project submission and consultancy services	Research paper Published : 305 (Scopus indexed: 105+) Research project submitted : 05 (243 Lakhs) Research project granted : 06 (Approx 325 Lakhs) Research consultancy services granted : 14 (Approx 167 Lakhs) Number of Ph.D degrees awarded-19
To Organise workshops/invited talks/seminars	33 Conference/workshops/invited talks/seminars were organised on following topics in various deptt. Elements of Hydro Powerplant, River Training Techniques: Fundamentals, Design and Applications, Geospatial Technology and Applications, Role of Civil Engineers in Wildlife Conservation, How to Deal with College Stress and Manage Stress, Future Power Systems: Adapting to New Challenges, Managed Pressure Drilling, Offshore Oil and Gas export Pipeline Design, Frontiers in Bioenergy Production & Processing for Meeting Climatic Change Issues in 21 st Century, Big Data and Applications, Professional Skills Development, Orientation cum Interaction, Java in IT Industry, Workshop on emotional Intelligence,

	Biodiversity act, Developing Employability skills in hospitality, 'Effect of Diet on Health and Behavior, Financial Education and Awareness (an initiative by SEBI), Gearing up for hospitality industry, Mind Body Relationship, NUCLEI AND THE COSMOS , Digital Marketing, Start up/Stand up/Mudra, Android Programming, Hands on Training in Plant Tissue Culture and Microbial Interactions, Training programme on Reservoir Modeling and Simulation, Workshop on Industry Skill Up-gradation through TATA Competency centers, Tata Technology Training Product design through CREO, Tata Technology Training Product design through CATIA, Tata Technology Training Product design through PLM Technology etc.
To Encourage students to participate in international programs in order to introduce a global setting in management education (Value added programme).	Active participation of students in research & design competitions at National & International level is also encouraged. Faculty members are encouraged to submit research proposal to external funding agencies. The students are also involved in research projects. Findings of the projects are published in conferences/journals. Students are motivated to participate in such programs. In fact various students undergone summer school with the foreign Universities at international level.
To provide opportunity to students to listen industry leaders and experts in order to lend a practical and relevant focus to their education (Skill development programme).	Students are provided with an opportunity to listen to talks given by several industry experts.
To encourage our faculty members to participate in research conferences, seminars and Faculty Development Programs;	85
To ensure that all the faculty members teaching different courses submit their course outlines which should have clearly laid out course objectives and evaluation criteria;	All the course outlines were monitored. They were submitted in time with clearly laid out course objectives and evaluation criteria.
It was suggested that all the full time faculty members teaching courses allocate at least one hour per week outside regular class hours for interaction with the students. This should be mentioned clearly in the course outline;	The suggestion was implemented by all the faculty members.
Extension Activities	Blood donation camps held, students actively participated in relief camp of Forest fire protection, Swachh bharat etc.

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

2.16 Whether the AQAR was placed in statutory body Yes ☒ No ☐

Management ☒ Syndicate ☐ NA ☐ Any other body ☐ Academic council ☐

Provide the details of the action taken

AQAR was placed in academic council of the university. The recommendations on it were then placed before BOM for consideration of approval. BOM approved the AQAR.

Criteria 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	13		All	All
PG	10		All	All
UG	15	4	All	All
PG Diploma				
Advanced Diploma				
Diploma				
Certificate	1		All	All
Others				
Total	39	4	All	All

Interdisciplinary	All*			
Innovative	1 **		All	All

* On basis of certain courses shared from other disciplines in each programme.

** Digital Transformation Engineering.

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	43 (at UG, PG and PhD levels)
Trimester	None
Annual	None

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.

Yes, in certain programmes structure and curriculum were reviewed and revised to meet the UGC CBCS & CFSD guidelines, to include thrust areas, remove obsolescence and also to make the curriculum more relevant to industry requirements. Minor changes were incorporated in various courses like change of paper code, shifting of courses and their codes, modification/revision of syllabi, etc. All such revisions were put up and approved by the academic functional bodies.

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

None

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
333	227	54	33	19

2.2 No. of permanent faculty with Ph.D.

109

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
40	02	03	01	04	01	12	-	59	05

2.4 No. of Guest and Visiting faculty and Temporary faculty

22+6+1=29

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars	22	37	12
Presented papers	23	25	03
Resource Persons	09	08	09

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

Academic Calendar

The Department follows the university calendar which consists of details such as Duration of instructions, Schedule of Mid Semester Examinations, Schedule of End Semester Examinations and Holidays.

Various departmental activities that are planned to be organized are scheduled well in advance based on the Academic Calendar of the university before communicating to the students. University calendar is uploaded on LMS and university website.

Maintenance of Course files:

For each course, a course file is prepared by the concerned faculty.

Teaching plans for each course are prepared by the faculty. The course objectives are defined for each course in line with the POs.

The lesson plan encompasses the learning outcomes and the assessment of outcomes.

Question banks are prepared for each topic in the course based on the course objectives and considering the nature of the university question papers. The previous question papers of University are also maintained in the course files.

ISO Audit Members monitors the maintenance of course files and class deliveries.

Pedagogical initiatives

The faculty members make extensive use of ICT facilities for teaching and demonstration. Students are encouraged to develop skills individually as well as in groups to promote collaborative learning.

Industrial experts and academicians are frequently invited to deliver lectures on recent trends in science and technology. Motivating the students by helping them to improve their personal management skills like communication, creativity, and critical thinking.

Using NPTEL/SWAYAM videos and Open source course materials for improved and effective delivery of course contents. Course handout are prepared for each course comprising of Perquisite, Syllabus, Teaching Plan, COs, POs, PSOs, etc., by the faculty members and distributed among the students. Also, course hand-out is displayed on LMS and departmental web site.

In addition, for developing better practical experiences among the students, the following courses have been incorporated in the curriculum:

- Mini-project in 3rd /4th /5th and 6th semester
- Industrial seminar in 7th semester
- Projects in 7th and 8th semesters

Initiatives to Support Weak Students and Encourage Bright Students, Identify weak students

- Slow learners are identified, based on their performance in mid-term, end-term examinations, seminar, assignments, quizzes, etc.
- Assisting weak students
- Remedial classes are conducted to assist weak students
- Faculty members are always available for mentoring students in their area of weakness.

- The faculty member organizes tutorial classes to provide individual attention to all such students.
- Library and computer center timings are extended to support student learning

Identify bright students

Bright students are identified, based on their performance in mid-term, end-term examinations, seminar, assignments, quizzes, etc.

- Encouraging bright students
- They are encouraged to carry out innovative experiments.
- The faculty members encourage such students to participate in research activities.
- They are motivated to attend conferences, internships, workshops, seminars, etc.
- Library and computer center timings are extended to support student learning

Quality of classroom teaching:

- Faculty members utilize ICT facilities for quality instructional service delivery in addition to board teaching.
- Faculty members are taking advantage of sources, such as, National Programme on Technology Enhanced Learning (NPTEL), Internet sources for the effective teaching.
- Faculty members make use of sources, such as journals, Internet sources, for effective teaching.
- The students are motivated to read quality journals papers to remain in tune with recent technological advancement.

In addition to these processes the following training programs are offered, by the Training & Placement cell and department, to help the students to face competitive examinations/ higher studies as well as placements confidently:

- Quantitative Aptitude & Logical Reasoning
- Functional English
- Group Discussions
- Interview skills
- Computer languages
- GATE, Spoken Tutorials etc.
- Conduct of Experiments
- Faculty members of respective specialization form a group with a team leader to discuss the preparation/ updation of Laboratory Manual before commencement of semester.
- The Course Laboratories are conducted in session of 3 hours, in each session the faculty explains the logic/concept and design/ algorithm of the experiment.
- The students will write the complete program concerned in the record copy/book, and then code/debug/execute the program on the system and interpret the results.

- The executed program with output, related theory and Algorithm or flowchart is documented in the record book by the students later which is evaluated in the next session of the Laboratories.
- In each course many students are made to work on number of additional programs for the better understanding of the subject.
- Viva is conducted by the concerned faculty in every session of the Laboratories.

Continuous Assessment in laboratory:

Continuous assessment of the students is performed by the faculty members in each laboratory session. In addition to this, Laboratories are evaluated by the faculties in the mid semester examination and by external examiners in the end semester examination based on their performance during the semester, attendance, internal test and record submission.

Student feedback of teaching learning process and actions taken:

At the end of the semester, all the students are required to fill a feedback-form apprising the faculty using a scale from 1 (low) to 5 (high).

- Lecture/Laboratory classes are monitored by the Head of the Department. He gives constructive comments to improve the quality of teaching and the teaching-learning process. HOD motivates the faculty members, who have secured low scores and negative comments, in the feedback.
- If required, training / orientation programmers are conducted by professional experts to enhance the skills of faculty members in the nuances of teaching, thus improving the efficiency of teaching-learning process.

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

180

2.8 Examination/ Evaluation Reforms initiated by the Institution:

- Bar Coding of Answer books
- Evaluation of Answer books with checks
- Multiple Choice Questions also (both Online / Offline)

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

AP 227	54 Asso	33 Prof
--------	---------	---------

2.10 Average percentage of attendance of students

75

2.11 Course/Programme wise distribution of pass percentage:

SN	LEVEL	PROGRAMME	BOARD DISCIPLINE GROUP NAME	Total Appeared Students	Total Number of Passed Students	Total number of students passed with >75 % Distn.	I div	II DIV	> 75 %	%I DIV	% II Div	OVER ALL % PASS
1.	Under Graduate	BACHELOR OF TECHNOLOGY	Civil Engg.	140	70	16	54	0	11.43	38.57	0.0	50.00
2.	Under Graduate	BACHELOR OF TECHNOLOGY	Computer Science & Engg.	173	140	74	66	1	42.77	38.15	0.6	80.92
3.	Under Graduate	BACHELOR OF TECHNOLOGY	Electronics & Comm. Engg	64	40	11	28	1	17.19	43.75	1.6	62.50
4.	Under Graduate	BACHELOR OF TECHNOLOGY	Electrical & Electronics Engg.	29	14	6	8	0	20.69	27.59	0.0	48.28
5.	Under Graduate	BACHELOR OF TECHNOLOGY	Information Technology	49	28	7	21	0	14.29	42.86	0.0	57.14
6.	Under Graduate	BACHELOR OF TECHNOLOGY	Mech. Engg.	175	116	28	86	2	16.00	49.14	1.1	66.29
7.	Under Graduate	BACHELOR OF TECHNOLOGY	BIO-TECHNOLOGY	33	24	9	15	0	27.27	45.45	0.0	72.73
8.	Under Graduate	BACHELOR OF TECHNOLOGY	Petroleum Engg.	65	32	8	24	0	12.31	36.92	0.0	49.23
9.	Under Graduate	BACHELOR OF COMPUTER APPLICATION	Computer Application	53	41	11	27	3	20.75	50.94	5.7	77.36
10.	Under Graduate	BACHELOR OF BUSSINESS ADMINISTRATION	Management	122	97	14	63	20	11.48	51.64	16.4	79.51
11.	Under Graduate	BACHLORE OF COMMERCE (Hons.)	Commerce	39	24	7	14	3	17.95	35.90	7.7	61.54
12.	Under Graduate	BHM	Hotel Mgt.	49	29	3	26	0	6.12	53.06	0.0	59.18
13.	Post Graduate	MASTER OF COMPUTER APPLICATION	Computer Application	78	69	38	31	0	48.72	39.74	0.0	88.46
14.	Post Graduate	MASTER OF SCIENCE	Information Technology	5	4	2	2	0	40.00	40.00	0.0	80.00
15.	Post Graduate	MASTER OF SCIENCE	Bio Technology	25	25	18	7	0	72.00	28.00	0.0	100.00
16.	Post Graduate	MASTER OF SCIENCE	Microbiology	13	13	13	0	0	100.00	0.00	0.0	100.00

	e											
17.	Post Graduate	MBA	Management	94	65	0	65	0	0.00	69.15	0.0	69.15
18.	Post Graduate	M.TECH (BT)	Bio Technology	11	9	8	1	0	72.73	9.09	0.0	81.82
19.	Post Graduate	M.TECH	(CAD/CAM & Robotics)	1	1	1		0	100.00	0.00	0.0	100.00
20.	Post Graduate	M.TECH	(CNE)	4	4				0.00	0.00	0.0	100.00
21.	Post Graduate	M.TECH	(CSE)	4	4				0.00	0.00	0.0	100.00
22.	Post Graduate	M. TECH	(Communication System)	2	2	1	1	0	50.00	50.00	0.0	100.00
23.	Post Graduate	M.TECH	(Control System)	6	5	5	0		83.33	0.00	0.0	83.33
24.	Post Graduate	M.TECH	Structural Engg.	3	3	2	1	0	66.67	33.33	0.0	100.00
25.	Post Graduate	M.TECH	(VLSI & Design)	14	14	13	1	0	92.86	7.14	0.0	100.00
26.	Post Graduate	M.TECH	Gio Informatics	2	2	0	2	0	0.00	100.00	0.0	100.00
27.	Certificate	CHHM	Hotel Mgt.	12	8	5	3	0	41.67	25.00	0.0	66.67

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

- i. IQAC assesses the curricula on periodic basis through feedback from students, faculty, alumni, domain experts from industries, R&D organizations, Institutions of excellence (IIT, NIT, and Universities etc)
- ii. With these inputs, the curriculum is designed and placed in Board of Studies (BOS) of various departments, which consist of faculty & outside experts
- iii. The following aspects are ensured by the IQAC at the time of curriculum design and development

Employability:

1. Regular upgradation of curriculum and course delivery by taking feedback from recruiters and thereby fulfilling industry needs.
2. Designing specialized and interdisciplinary courses, incorporating industry needs.

3. Design & development of good quality projects, internship and problem oriented projects/dissertations by students o applied aspects of their technical study.
4. Hands on experience and industrial exposures on one hand and training through soft skills on other.

Innovation:

- i. Students at all levels are provided with various opportunities to implement innovative ideas via internships, course related projects, participation in various competitions at National & International level, research projects, dissertations, online courses etc.
- ii. Seed money is also provided to the faculty and students for innovative projects.
- iii. Faculty and Students are encouraged to file patents.
- iv. Value added experiments in labs.
- v. Using e-learning resources like NPTEL lectures, acquiring additional knowledge through E-lab software tools from IIT-Bombay.

Research

- vi. Feedback from industries and R & D organization in curriculum development has promoted research and development activities in University resulting in various publications by faculty and students in peer reviewed journals and Proceedings of National & International Conferences.
- vii. Active participation of students in research & design competitions at National & International level.
- viii. Faculty members are encouraged to submit research proposal to external funding agencies. The students are also involved in research projects. Findings of the projects are published in conferences/journals.
- ix. Students present seminar on innovative topics as a part of the curriculum.
- x. Major & minor projects on emerging areas and real time applications at

2.13 Initiatives undertaken towards faculty development: (July 2016 to June 2017)

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	21
UGC – Faculty Improvement Programme	12
HRD programmes	11

Orientation programmes	7
Faculty exchange programme	4
Staff training conducted by the university	46
Staff training conducted by other institutions	53
Summer / Winter schools, Workshops, etc.	33
Others	25

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	140	-	38	00
Technical Staff	97	-	10	00

Criterion – III

3. Research, Consultancy and Extension

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

Setting up a Research Consultancy Board (RCB) and departmental DRCs , streamlining the administrative procedures for using funds, recruiting staff, preparing utilization certificates, providing seed money, incentives and awards for both faculty and students.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	10	12	6	5
Outlay in Rs. Lakhs	126.8	418.78	263.34	243

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	6	2	1	2
Outlay in Rs. Lakhs	12.6	4	2	22

3.4 Details on research publications

	International	National	Others
Peer Review Journals	171	28	123
Non-Peer Review Journals	112	7	
e-Journals	13	5	
Conference proceedings	87	62	19

3.5 Details on Impact factor of publications:

Range 0.8-8.05 Average -- h-index 15 Nos. in SCOPUS 105+

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(Lakhs)	Received
Major projects	2016-17	ISRO, DST-CERI, SERB, TTL, IDTR	325.2	263.34
Minor Projects	2016-17	ONGC	4.00	4.00
Interdisciplinary Projects	2016-17	Japan Aerospace Exploration Agency	Access to digital data base worth Rs. 20 Lakhs	
Industry sponsored	2016-17	Gopal ji dairy, Haldiram, TCS, Global Infoways, Renascent Consultant, Delite AC, NSE – IT Ltd.	187.2	167.2
Projects sponsored by the University/ College	2016-17	GEU	9.50	9.50
Students research	2016-17	GEU	2.00	2.00

projects <i>(other than compulsory by the University)</i>				
Any other(Specify)	-	-	-	-

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

3.11 No. of conferences organized by the Institution	Level	International	National	State	University	College
	Number	2	5	2	2	--
	Sponsoring agencies	DST+UCOST	UHRC	DST+VCP+GEU	GEU	

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	7
	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
18	3	7	2	3		3

3.18 No. of faculty from the Institution

62

who are Ph. D. Guides

and students registered under them

108

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

19

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

JRF

1

SRF

NIL

Project Fellows

05

Any other

University scholarship- 13

3.21 No. of students Participated in NSS events:

University level

200

State level

200

National level

3

International level

NIL

3.22 No. of students participated in NCC events:

	University level	100	State level	20
National level	-	International level	-	

3.23 No. of Awards won in NSS:

	University level	166	State level	20
National level	-	International level	-	

3.24 No. of Awards won in NCC:

	University level	35	State level	08
National level	05	International level	-	

3.25 No. of Extension activities organized

University forum	21	College forum	NA
NCC	20	NSS	15
Blood units collected =2792			

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

- Active participation in Swachh Bharat Abhiyan (six SBAs in association with SOI, UK police)
- Blood donation camps in University campus (Total 2792 units donated by students, faculty, staff)
- Awareness drives (National Unity run, National Integration drive, etc)
- Students leading NGOs for social welfare (Pratistha, Apne sapne for orphan and poor children)
- GEU is a government recognized nodal centre for promoting entrepreneurship in Uttarakhand for actively contributing to Make-In-India and Skill India Missions
- Adopted a village Dhoolkot
- Health care and plantation drive. More than 600 plantations done in association with Dehradun Police and Forest Research Institute

- Swachata Abhiyan in and around university campus.
- Motivational workshop (with Nukkad Nataks, videos, etc) on drug abuse and other social evils, in association with Uttarakhand Police
- Active participation of 100+ faculty and students of GEU in fire-fighting during Uttarakhand Forest fires along with Uttarakhand Forest Department
- Counselling to students, faculty and parents through spiritual and cultural programmes

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 (Acres)	25	-	GEU	25
Class rooms (Numbers)	67	3	GEU	70
Laboratories (Numbers)	84	4	GEU & Funding Agency	88
Seminar Halls (Numbers)	05	1	GEU	06
No. of important equipment purchased (\geq 1-0 lakh) during the current year.	234	63	GEU & Funds received from others	316
Value of the equipment purchased during the year (Rs. in Lakhs)	4233.38	562.17	GEU & Funds received from others	4795.55
Others:	---		-	-

4.2 Computerization of administration and library

- The admin office and Library are fully computerised

4.3 Library services:

Item	Existing		Newly added		Total	
	No.	Value (Lakhs)	No.	Value (Lakhs)	No.	Value (Lakhs)
Text Books	115700	1024.26	4432	56.45	120132	1080.71
Reference e - Books	11172		270		11442	
Journals	186		115		301	
e-Journals	4453		4453		8906	
Digital Database	138		2		140	
CD & Video	1015		0		1015	
Others -Software (TURNITIN-100USER)	0		1		1	

4.4 Technology upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	2003	27	1 GBPS(B SNL) 55 Mbps(T ata)	3	1	1	110	241
Added	143	1	Nil	Nil	1	Nil	90	Nil
Total	2146	28	1 GBPS(B SNL) 55 Mbps(T ata)	3	2	1	200	241

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

Computer facility is available in the department for all students and staff.

- Internet Facility is available in the department for all students and staff.
- MATLAB facility is available in the department for all students and staff
- Round the clock internet available through Wi-Fi
- Regular workshops for learning new technologies

4.6 Amount spent on maintenance in Lakhs:

Facility	Amount (in lakhs)
ICT	124
Campus Infrastructure and facilities	
Equipment	
Others	
Total	124

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

There are committees and cells formed at university and departmental level, to look after the student support services:

Some of the important areas are:

- PAQIC, in each department
- Academic awareness committee formed for the awareness amongst students through online courses offered by NPTEL and various universities.
- Grievance Cell
- NSS
- Class coordinators and mentoring committee
- Counselling
- Disciplines
- Welfare

The IQAC monitors various department head to undertake programs related to student's support. These include display and dissemination of various departmental activities on the department notice boards and website

5.2 Efforts made by the institution for tracking the progression

The various academic departments of the University have been entrusted with the task of tracking the progression of the students and this is effectively done by the help of class coordinators and mentors.

5.3

(a) Total Number of students	UG	PG	Ph. D.	Others	Total
	4777	659	39	--	5475
(b) No. of students outside the state				--	2236
(c) No. of international students	--	01	--	--	01

Men	UG	PG	Ph.D.	Others	%	Women	UG	PG	Ph.D.	Others	%
	3500	341	12	--	70.37		1277	318	27	--	29.63

Year (2015 – 16)						Year (2016 – 17)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1509	29	9	164	Nil	1711	1567	19	14	156	Nil	1756

Demand ratio 1:3

Dropout %: < 4 %

5.4 Details of student support mechanism for coaching for competitive examinations (If any) HOD, placement cell, PDP

Through well establishment placement cell, PDP and faculty and outside experts support is provided to the students in following ways

- Prepare students for placement through general and technical classes and train them through mock interviews.
- Help prepare students for higher studies in India and abroad
- Special classes are organized for providing support to the students who are appearing for Competitive Exams (such as: GATE/NET/CAT etc.)
- Career Excellence classes are held to aid students for quality placements and competitive examinations

No. of students benefitted	<p>Most of the students have been benefitted through</p> <ul style="list-style-type: none"> ❖ Employment <ul style="list-style-type: none"> • On campus placements • Off campus placements ❖ Higher studies ❖ Self employment
-----------------------------------	---

5.5 No. of students qualified in these examinations

Exam	UGC - NET	SET/SLET	GATE	CAT	IAS/IPS etc	State PSC	UPSC	Others
Students Benefitted	01	04	51	NIL	NIL	NIL	01	94

5.6 Details of student counselling and career guidance

- The counselling and career guidance is provided to all students through Counsellor, Class coordinators and Mentors.

No. of students benefitted	Most of the students have been benefitted though counselling and career guidance
-----------------------------------	--

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
74	968	693	159

5.8 Details of gender sensitization programmes

Gender sensitisation committee is formulated in the university under NSS, NCC and inter sports, culture etc activities. Two committees viz. **Women Grievances redressal Cell** and **Women Task Force** are formulated to take care of issues if any. In addition women faculty/ students are always involves in all activities at this 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 in lakhs
Financial support from institution	1851	116.9
Financial support from government	-	-
Financial support from other sources	-	-
Number of students who received National recognitions	-	-
Number of students who received International recognitions	-	-

5.11 Student organised initiatives

Fairs	: State/ University level	4	National level	3	International level	---
Exhibition:	State/ University level	8	National level	---	International level	---

5.12 No. of social initiatives undertaken by the students

23

5.13 Major grievances of students (if any) redressed:

02

The university has a grievance redressal cell for attending the grievances of students from time to time. There are following Committees to deal with the grievances of students and employees.

- Grievance Redressal Committee (General)
- Women Grievance Task Force
- Women's Grievance Redressal Committee

The university takes appropriate corrective measures to handle & redress all the grievances. The complaints are received by the Chairperson/Convener of the committee and a proper inquiry is conducted before final recommendation and then appropriate remedial measures are taken by the administration as per university norms/ rules and regulations.

Criteria VI

6.1 State the Vision and Mission of the institution

Vision

We visualize GEU as an internationally recognized, enquiry-driven, ethically engaged diverse community, whose members work collaboratively, for positive transformation in the world, through courageous leadership, in teaching, research, and social action.

Mission

The mission of the University is to promote learning in the true spirit. The University offers the knowledge and skills needed to succeed as professionals, and the values and sensitivity needed to become responsible citizens of the world. The University will distinguish itself as a diverse, socially responsible learning community of high quality scholarship and academic rigor sustained by an effort that does justice. Vision & Mission of the university have been associated with the following core values.

- Continuous learning & improvement
- Ethics
- Simplicity
- Integrity and trust

In order to achieve this, priority has been given to the following areas.

- Encouraging academic excellence.

- Developing programmes for awareness of the newly emerging areas of Technology & growth.
- Promoting interdisciplinary skills.
- Inculcating ethics & values and emphasis on trust and integrity
- Encouraging creativity & innovativeness.
- Cultivating managerial skills
- Participative activities with emphasis on team work

6.2 Does the Institution has a Management Information System

Yes.

There are various software system that was developed in-house, and encompasses all aspects of the university's academic and administrative functioning. A brief discussion of its usage with respect to the above points is given below:

Administrative procedures including finance: includes student and staff profiles, fee management, accounting, issue of certificates (bonafide, transfer certificate, grade sheet, degree certificate, etc.), etc.

Student admission: a state-of-the-art admissions module enables simultaneous counselling for BTech admissions across multiple campuses (in various states), and the entire data – from issue of hall tickets, to rank data, and entry data upon admission – is captured in the system, subsequently generating roll numbers that feed into the student registration & evaluation processes.

Student records: apart from personal profiles, this includes student registration records, marks & grades, student progression data, progress reports, hostel information, etc.

Evaluation & Examination procedures: the entire gamut of activities from registration through results, including attendance and other data are captured and maintained with appropriate access levels to students, faculty, management, administrative personnel, parents, and other stakeholders.

Research administration: in the staff profile, there is a provision for faculty members to maintain records of research publications, conferences attended, research grants received, etc.

Others: LMS module – this provides an excellent suite of tools for the teaching-learning process, including the provision to set up question banks, conduct online exams, share teaching materials & resources, host discussion forums, conduct surveys & polls, generate course-related performance-reports, etc.

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

6.3.1 Curriculum Development

Following initiatives give reflection of vision and mission in academic programs.

- Encouraging creativity, innovativeness and entrepreneurship development apart from quality teaching & research.
- Framing the syllabus with inputs from professors of institutions of National & International repute, scientists of R & D Organizations & industry experts.
- Developing programs for awareness of the new & emerging technologies such as business analytics, VLSI design, cloud computing, bioinformatics, health care informatics etc.
- Allowing the students to undergo internship programs in Indian and foreign Universities (industries) R & D organizations.
- Promoting interdisciplinary skills.

- Encouraging students & faculty members to get actively involved in Conference/Symposium research through research paper presentation, publications, sponsored/consultancy research projects.
- Besides technical skills help in cultivating managerial skills through projects, dissertations and at least one compulsory course of study on managerial skill across all academic programs.
- Inculcating ethics and values by incorporating one course on human values & ethics in every program.

6.3.2 Teaching and Learning

- In the University, the teachers focus on being a facilitator. The teachers focus more on engaging students and making students participate & perform, rather than merely teaching.
- The teachers share the topic for discussion beforehand for students to come prepared, and the session is utilized for interaction, analysis, practice and problem solving connected to real life situations. In this way the results achieved transcend beyond traditional classroom teaching.
- The University pedagogy has been made more effective using a blend of activities such as discussions, role plays, case studies, quizzes, presentations, classroom activities, etc.
- Projects on latest technologies, laboratory based experiments provide practical insight into the subject.
- The students are prepared and trained in such a way that they are open to learn throughout their life.
- The students are motivated for self and lifelong learning by encouraging them to obtain online certifications offered by Coursera, Edx, MIT Open Courseware etc.,
- University encourages individual departments to invite domain experts and people of eminence for delivering lectures in their areas of specialization, problems and future challenges.
- The University has excellent IT infrastructure including 24x7 Internet and Wi-Fi facility, Digital Classrooms and Libraries and LMS to enable e-learning. Provisions are made for streaming academic videos like NPTEL.
- Industrial/field visit internships in R&D/academic institutions of repute etc, are integral part of various academic programmes of the university.
- University is also a nodal centre for offering online programs of NITTTR – Chandigarh. This centre facilitates online programs for teacher/student training supported by AICTE and MHRD.
- University also has training facility for Free Online Open Software's (FOSS) courses in collaboration with IIT-Bombay. Spoken Tutorials are being offered to students through this association.
- University has provided Netbooks & Laptops to faculty members to enable them deliver ICT based lectures.
- The University offers bridge/add-on/remedial courses incorporated in daily time-table as well as after classes and during vacations.

6.3.3 Examination and Evaluation

- The Exam schedule is prepared by the Controller of Examination(COE) in consultation with the Registrar. This gets displayed on the notice boards and the website.

- Efforts are made to evaluate students continually for their knowledge, comprehension, application analytical skills through quizzes, surprise tests etc. in addition to mid-semester (between 45-50 working days) and end-semester examinations in each of a 90 working day semester.
- The internal and external paper setters are appointed with request to set question papers which are moderated confidentially by a committee and then printed. The printed question papers are held in a strong room under the supervision of the COE and Registrar.
- In-built flexibility in our academic system gives opportunity to students to improve performance through make-up exams.
- Students can also avail the opportunity of appearing in back-paper exam if they are unable to clear any course due to unavoidable circumstances.

6.3.4 Research and Development

In an effort to further enhance the research structure and output, the university initiated the formation of Thrust Area Groups (TAGs). These groups within each department, work together in focused areas, and provide regular reports, which are then reviewed by management for the following reasons:

1. To provide any support (additional infrastructure, facilities, instruments, stipends, etc.)
2. To help in case of any roadblocks and challenges faced by researchers
3. To monitor progress and output

The university has a RCB/DRC/SRC to monitor and address issues related to research. Each school also has a research committee to facilitate, monitor and encourage the research activities. It meets regularly to discuss various plans to promote research and motivate the faculty for academic advancement. University has initiated fellowships as incentive for research.

There is a Dean (R & D) with overall responsibility for individual research programme leading to the PhD degree. Teachers are informed about the various Govt. funding agencies fellowships available and they are encouraged to apply for the same. Faculty members with PG degree are encouraged to register for PhD. Monetary assistance and incentives are also provided to faculty members for publication and attending conferences. University encourages faculty for sponsored research and consultancy projects. There is a Dean (Res. & Consultancy Projects) to help in this regard.

The university is endowed with a TBI & STEP to help fructify innovative concepts, ideas and their commercialization IPR cell motivates and provides help for patenting and commercialization of innovative ideas/products etc of students and faculty.

Research is a significant activity of the university. During this academic year 230 Research papers were published in National and International Journals 181 papers were presented in National Seminars and Conferences 19 research scholars have obtained their Ph. D. from the department of our university 7 major projects were sanctioned by funding agencies. Books/Proceedings have been published. Apart from this regularly guest/invited lectures are organised by the university on different areas.

Major research projects sanctioned during 2016-17

S.No	Name of Principal Investigator	Funding agency	Title of the Project	Sanctioned order no.	Sanctioned date	Amount sanctioned (In Rs.)
1.	Dr. Rishi Prakash	Japan Aerospace Exploration Agency	Development of soil moisture monitoring system for agricultural land situated in Indo-Gangetic Plane	16/JAXA/SI MD no. 0414001	22/04/2016	Scientific Data Usage
2.	Dr. Pradeep Kumar Sharma,	Ministry of Environment, Forest and Climate Change (MOEF)	Dairy waste water treatment pilot-scale hybrid subsurface constructed wetland systems operating under different recirculation rates	F.No.19-72/2014-RE	2/6/2016	42,39,680
3.	Dr. Varij Panwar	Science and Engineering Research Board (SERB)	Development of new ionic polymer transducer using ionic polymer metal nanocomposites for the enhancement of the sensing performance"	ECR/2016/0 01113	8/9/2016	37,77,000
4.	Dr. B.S Jassal	Indian Space Research Organization (ISRO)	Investigations of the ionospheric effects on the navigational signals received from GAGAN and IRNSS systems		10/01/2017	17,07,840
5.	Dr. Juhi Garg	Institute for Driving and Traffic Research (IDTR)-A joint venture between Transport Dept., Govt of Uttarakhand & Maruti Suzuki India	Impact of commercial driving upon socio-economic and psychosomatic statuses of commercial drivers in the state of Uttarakhand.	GEU/HSS/0 01	04/10/2016	1,61,000
6.	Dr. Rishi Prakash	Space Application Center, ISRO, Ahmedabad	Development of Algorithm for Estimation of Soil Moisture in Bare Soil and Vegetated Land with IRNSS data	NGP-2	23/01/2017	18,51,840
7.	Dr. Abhilasha Mishra	DST-CERI	Fabrication of superhydrophobic antireflective coating on solar panels to enhance its efficiency	DST/TM/C ERI/C28	5/12/2017	38,95,685

Some of the Guest/invited lectures/training programs organised during 2016-17

S.no .	Name of the event	Date of event	Guest speaker	Organizing deptt.	Venue
1.	Guest Lecture	10 th November, 2016	1. Mr. Rominder Singh Bedi Business Manager, Innovative Systel, Bentley Systems 2. Mrs. Charu Chaudhari Academic Relation Manager North Region, Bentley Systems 3. Mr. Anisurya Ghosh, Senior Software Quality Analyst Bentley Systems	Department of Civil Engineering,	Graphic Era (Deemed to be University)
2.	Tissue culture training program	3-9 th January, 2017	Dr. M K Nautiyal, Director, Uttarakhand Council of Biotechnology	Department of Biotechnology	Graphic Era (Deemed to be University)
3.	Guest lecture on theme: concept of learning science, the uses of books, their application in real world.	29 th March 2017	1. Mr. Girish Shrinivasan, Director sales; Mcgraw Hill India 2. Mr. Pradeep Kumar, DGM sales Mcgraw hill North India	Department of Commerce	Graphic Era (Deemed to be University)
4	Guest Lecture on Biofuel	18 January, 2017	Dr. Anuj Kumar Chandel	Chemistry	Graphic Era (Deemed to be University)
5	Seminar on Intervention of Ayurveda for	28th August 2016	Vaidya Balendu Prakash (VCP Foundation)	Jointly organized by VCP	CSIR-IIP, Dehradun

	Improving Nutritional Anaemia			Foundation, Department of Biotechnology, GEU in association with Department of Science and Technology, Uttarakhand	
6	Workshop	Science for Society Program entitled “Entrepreneurship and Biotechnology”	August 2016	Department of Biotechnology	GIC, Nainbag
7	National Conference cum Workshop	National Conference cum Workshop on Recent Trends in Biology, Culture, Conservation, Commercialization, and Sustainable Utilization of Medicinally and Floriculturally Important Orchids	March 24-26, 2017	ICAR ADG, Horticulture	<p>Jointly organized by Department of Biotechnology, GEU and The Orchid Society of India (TOSI), Chandigarh</p> <ul style="list-style-type: none"> • Conference had Technical sessions, Orchid show and painting competition for school children • Participants (experts, scientists, research scholars, students) from different research centres/ institutes, colleges across the country <p>Painting competition had over 70 participants from different schools of Dehradun</p>

8	Hands on Training in Plant Tissue Culture and Microbial Interactions		January 3-9, 2017		<ul style="list-style-type: none"> • Funded by: Uttarakhand Council for Biotechnology • 26 participants (students, research scholars, faculty members) Participating institutes: Graphic Era University, HNB Garhwal University Srinagar-Garhwal, Maya Institute of Technology-Dehradun, HNB Garhwal University(Pauri campus) College of forestry (Ranichauri) G.B. Pant Engineering College (Ghurdauri), Govt. P.G. College (Raiwala), Devbhoomi Institute of technology and Research (Dehradun)
9	National Conference on Technological Challenges of Hydro-turbine and Alternate Sources of Energy TCHASE 2017	17,18 Feb 2017	Sri S. N. Verma, Managing Director, UJVN ltd.	Mechanical Engineering Department	Graphic Era (Deemed to be University)
10	Student Interaction by Major Yogesh Adhikari, Indian Army	April 14, 2017	Major Yogesh Adhikari	Mechanical Engineering Department	Graphic Era (Deemed to be University)

11	Student Interaction by Mr. Ishank Sachdeva, Project Manager, OLAM, South Africa	Feb 11, 2017	Mr. Ishank Sachdeva	Mechanical Engineering Department	Graphic Era (Deemed to be University)
12	Workshop On Industry Skill Up gradation through TATA Competency centers	APRIL 19-2017	Mr. Shrikant Ajaysondkar and Ravin Kayasth	Mechanical Engineering Department	Graphic Era (Deemed to be University)
13	Workshop On Tata Technology Training Product design through CREO	May 1 to 5 , 2017	S. Puranik, SME, Technology tool, TATA Technologies	Mechanical Engineering Department	Graphic Era (Deemed to be University)
14	Workshop On Tata Technology Training Product design through CATIA	April 24-28,2017	S. Puranik, SME, Technology tool, TATA Technologies	Mechanical Engineering Department	Graphic Era (Deemed to be University)
15	Workshop On Tata Technology Training Product design through PLM Technology	May 8-12, 2017	Mr. Ravi Kayasth, TATA Technologies	Mechanical Engineering Department	Graphic Era (Deemed to be University)
16	National Seminar on Materials and operations sustainability: an approach towards make in India”, Graphic Era University, Dehradun	22-23 august 2016,	Dr. Vikas Phalle, Associate Prof., VJIT Mumbai Dr. N.P.Singh, ONGC Dehradun	Mechanical Engineering Department	Graphic Era (Deemed to be University)

17	Workshop on ACC cement	20/10/2016	1. Mr. Rahul Sharma, Technical Head, ACC	Department of Civil Engineering	Civil Engineering Department, GE
18	Workshop on STAAD Pro by BENTLEY	10/11/2016	1. Mr. Rominder Singh Bedi 2. Mrs. Charu Chaudhari 3. Mr. Anisurya Ghosh	Department of Civil Engineering	Civil Engineering Department, GE
19	National Seminar on Water Management in Himalayan Region	11/02/2017	1. Dr. Ashish Pandey 2. Dr. Z. Ahmad 3. Dr. B. Ramesh 4. Dr. Mahesh Kumar Jat 5. Dr. Bhaskar R. Nikam	Department of Civil Engineering	Civil Engineering Department, GE
20	A Workshop on ACC Cement is being organized by ACC Cement Ltd, Dehradun	23/03/2017	1. Mr. A. K. Singh 2. Mr. Vikas Shishodia	Department of Civil Engineering	Civil Engineering Department, GE
21	Guest Lecture on Elements of Hydro Powerplant	28/04/2017	1. Mr. G.P. Bhati Retd. Chief Engineer, U.P. Irrigation deptt.	Department of Civil Engineering	Civil Engineering Department, GE
22	Workshop on AutoDesk	28 th -29 th /04/2017	1. CETPA info Tech Dehradun Center	Department of Civil Engineering	Civil Engineering Department, GE
23	National Workshop on Popularisation of Remote Sensing Based Maps & Geospatial Information	11/08/2017	1. Online Presentation	Department of Civil Engineering	Civil Engineering Department, GE

24	Guest Lecture on River Training Techniques: Fundamentals, Design and Applications	26/08/2017	1. Dr. H.N.Tiwari	Department of Civil Engineering	Civil Engineering Department, GE
25	Guest Lecture on Geospatial Technology and Applications	09/09/2017	1.Prof.S.P.S.Kushwaha	Department of Civil Engineering	Civil Engineering Department, GE
26	Guest Lecture on Role of Civil Engineers in Wildlife Conservation	15/09/2017	1. Mr. Arun Kumar	Department of Civil Engineering	Civil Engineering Department, GE
27	Guest Lecture on How to Deal with College Stress and Manage Stress	13/11/2017	1. Ms. Gunjan Singh	Department of Civil Engineering	Civil Engineering Department, GE

6.3.5 Library, ICT and Physical Infrastructure / instrumentation

- At present the university Central Library has a total collection of 111570 books. The Library subscribes 115 journals of different disciplines and 37 general magazines. The faculty members also avail online facility of the university library for teaching and research. The university central library has acquired more than 4453 E-Resources in various disciplines.
- In order to ensures the availability of latest good quality books in the library, the list of books and Journals etc. is provided by all the departments every year.
- Regular upgradation of ICT and physical infrastructure is being done. All departments submit their requirement for procurement of instruments.
- Total 4429 new books, 4453 E-Journals, and 115 print journals have been purchased in the current academic years.

6.3.6 Human Resource Management

- Manage proper faculty-student ratio across all courses and sufficient non-teaching staff to stress on capacity building & capability development.
- Maintain performance oriented culture. Targeting more international faculty members.
- Providing various facilities to the employees, besides providing required training to the employees as per their job requirement
- Obtain proper feedback from students regarding faculty & delivery, to take corrective / remedial/improvement measures.
- Social media is being used to attract the potential prospective candidates. Occasionally, a few students who were unable to continue for some research the course and were about to discontinue, were provided part time jobs and also concession in the fees so as to motivate them to continue and pursue their education. This has resulted in reducing the numbers of drops out.
- Staff members who reside in staff quarters are also involved in the student monitoring mechanism. This has resulted in good student-faculty relationship.
- The human resource department which monitors the working atmosphere of the faculty and staff. Get periodically the feed backs to maintain good work culture.
- The institute has a well monitored biometric identification system.
- The institution has sincere, dedicated and committed faculty and visionary management.
- The university has an adequate number of qualified and competent teachers to handle the courses. The faculty members have access to the computer and internet facility that are available in the departments also.
- Workshops and training programmes are arranged for the faculty to enrich their knowledge in handling the computers effectively
- Encouragement and support are provided to faculty members for participating and organizing of faculty development programmes.
- Orientation programme are run is given to all teaching and non teaching staff.
- Faculty are sponsored for attending national/ International conferences.
- A few faculty members are supported by the transportation, computer and accommodation facilities.
- Festival loan is given to non teaching staff.
- Training pertaining to BLS course and fire and safety is given to all the staff.

6.3.7 Faculty and Staff recruitment

The gap between the future and the current position is analysed and HR strategies for meeting the organization's needs in the future is determined. The staff requirement is assessed on the basis of the students' strength, vacancies arising due to retirement and as per the workload norms prescribed by UGC. On the basis of the availability of faculty requirement for new programmes, new faculties in the emerging areas of study are selected and appointed in the university.

The qualifications for teachers of various courses are prescribed by the UGC. Faculty and staff are recruited as per the recommendations of the selection committee/board where representative of the management is also ensured. Recruitment based on requirement especially for well qualified individuals with significant preference for those with already secured funded research projects.

6.3.8 Industry Interaction / Collaboration

The Industry Placement Cell focuses on achieving the following functions:

- To build and maintain excellent rapport with the top management of various organizations and industries and forge collaborative industry-academia alliances.
- Initiating Memoranda of Understanding with major companies, research agencies and institutions to fetch funded projects and bring about improvement in infrastructure and teaching methodologies to enhance exposure of students and faculty to industry practices and developments in technology.
- Facilitating visits by senior industry leaders for interaction with faculty and students.
- Securing sponsorships from industry for technical events like conferences, seminars, symposia, workshops and student contests through strategic relationships.
- Seeking the help of companies to spare working products / prototypes for academic demonstration purposes.
- Facilitating in-plant training, industry visits, summer and final semester internship for students across all disciplines and campuses.
- Soliciting support from highly reputed companies each year for the Corporate Action Plan with respect to engineering, management, biotechnology and other disciplines.
- The interface with the industry is maintained in the university. But we do have a lot of industry interaction apart from this. All our students do a 6 week Summer Internship Project at different organizations. Our faculty members interact with industry as consultants, trainers etc. Many industry experts come to us as Colloquium speakers where they address our students, faculty and staff members as a part of the Colloquium guest lecture series. Many of our alumni from the industry visit us from time to time and give us their inputs. Many of them also contribute in the Alumni Boot Camps that are held once every year to help our graduating batch prepare for their placements. Some of our faculty members also take feedback for their course outlines from industry experts. Experts from the industry are also valuable members of our Board of Studies and thus contribute immensely to the administration of our Schools.

6.3.9 Admission of Students

- The university has a well established admission cell. It ensures publicity and transparency in the admission process, through mass media & advt. In additions the university has a number of information centers in many cities in the country to help provide information for admission. Exhibitions of university are used to give wide publicity regarding admission and related activities in local and national dailies, website, TV and FM Radio.
- Admissions are done on the basis of merit. All academic programs are approved by Academic Council/ BOM following UGC guidelines.

6.4 Welfare schemes for

Teaching	Yes
Non teaching	Yes

Students

Yes

Teaching and Non-Teaching

- Employee Provident Fund (EPF)
- Loan and advance facility to employees
- Residential / Accommodation facility
- Clinical / Dispensary facility – 100 percent
- Medical leave, Compensatory leave, Maternity leave, Paternity leave, Marriage leave, Study leave – 100 percent as per eligibility criteria.
- Financial support for research activities and acquiring higher qualification
- Fee concession to the wards of the employees.
- Insurance facility to the employees and their family members.
- Employee grievance cell
- Local transport
- In campus bank with ATM facility
- In campus food courts
- Sports and gym facilities

Students

- Oversee the students welfare Dean of student welfare
- Women Grievance cell
- SC/ST Cell
- Anti-ragging cell
- Psychology Cell
- Student welfare fund
- Student Welfare Board
- Extra coaching to slow learners
- Sports-indoor and outdoors, gymnasium, judo, karate
- Facilities for cultural activities
- Students club (automodelling, automobile, robotics, web design, photography, software spells)
- Mountaining- tracking
- NCC

6.5 Total Corpus Fund generated = 1838.00 Lakhs

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	Y	ISO	Y	PAQIC/IQAC

Administrative	Y	ISO	Y	PAQIC/IQAC
----------------	---	-----	---	------------

6.8 Does the University declares results within 30 days?

For UG Programmes Yes ☒ No ☐

For PG Programmes Yes ☒ No ☐

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

The IQAC constantly endeavours to collect feedback from various sources on exam policies, procedures, and student performance, which form the agenda for discussion on various functional bodies (department level, UG Programs Committee, PG Programs Committee, Academic Council, etc.) to discuss and make improvements. This has led to numerous reforms including changes in the grade point system (letter grades and points), requirement for award of distinction, requirements on publishing journal & conference papers, administration and evaluation of curricular projects, weights associated with evaluation components of a subject, components of continuous assessment in a course, structure of a question paper, etc. University goes for continuous assessment and open ended. Academic development programmes are organized every frequently month.

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

The University has no degree level affiliated / constituent college.

6.11 Activities and support from the Alumni Association

The University has a registered Alumni Association with Delhi chapter, Pune chapter and Bangalore chapter, USA chapter. Every year alumni meet is organised at various locations like Delhi, Pune, Bangalore, Bhimtal and Dehradun.

Alumni students are sent newsletters for updating them with the activities & developments at the university.

Alumni are invited for Guest lecturers, feedback on existing curriculum and inputs for development of new curriculum.

The alumni association, tries to nurture the relationship with students for mutual interests, and to utilize their expertise and knowledge and offer guest lecture, training & placement support to existing students.

The following some of the activities have been done during current academic year.

Sl. No.	Name of Activity	Duration
1	Alumini student interactive session	10 th September, 2016
2	Alumini Meet, Bhimtal	9 th October, 2016
3	Alumini Meet, Dehradun	14 th April, 2017
4	Alumini Re-union, Bangalore	5 th March, 2017

6.12 Activities and Support from the Parent – Teacher Association

- Regular parent teacher interaction is done for obtaining feedback and apprising the parents about their ward's performance. SMS services are also used to apprise the parents about their wards.
- Parents are invited by the management on regular basis and suggestions made by them are also given due consideration.
- Each class/section is under the care and guidance of one or more faculty members called class coordinator. Certain students are assigned to each faculty member who acts as a mentor to track the academic performance and social participation of the students and offers guidance. The class coordinator carefully monitors the attendance and students performance of the class. If required, he/she also interacts with parents to give them right feedback of student.
- Monthly Attendance report is prepared by the class coordinator, Parents/Guardian are well informed of their wards who have attendance less than 75%.
- Parents /Guardians are requested to meet the class coordinators and HOD if their ward is showing continues absenteeism
- Any Indiscipline issue is immediately conveyed to the Parents/Guardian along with the necessary action taken
- Slow learners are identified in each semester and necessary extra coaching is given with information to their parents/guardians for their support as needed.

6.13 Development programmes for support staff

Academic Staff Development Programmes

- Refresher Course
- HRD Programmes
- Orientation Programmes
- Staff training conducted by other Universities/Institutions
- Summer / Winter School, Workshops.

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

- Indian Youth Society of Eco friendly and Renewable Technology (IYSERT) is GEU initiative for organising exhibitions, awareness drives, about eco-friendly technologies by individuals, NGOs or other organisations.
- The University is committed towards enhancing environmental awareness, protection and has therefore, adopted a number of eco-friendly practices.
- The University spreads environmental awareness among students and staff members by celebrating Environment Day and Biodiversity Day, etc. It also initiated "Swachh University Abhiyan" under "Swachh Bharat Abhiyan" of the Government of India to encourage and maintain cleanliness in and around campus. Students and employees are motivated to undertake plantations. Various eco clubs and initiatives like IYSERT are run by the students for promotion of eco-friendly practices.
- For promoting research on eco-friendly technologies, the University also started providing partial financial support.
- A small unit for recycling of waste paper for paper making is established in the campus.
- Two Constructed wetland systems which are based on clean and green technology have been built to treat and reuse dairy farm waste water from university's dairy farm.

- All horticulture and office solid organic waste is being converted into vermin-compost at Vermicompost unit established near university campus.
- Entire campus is No-smoking campus.
- Use of IT infrastructure to share notices & notes thereby minimal use of papers.
- Encourage public transport use and for the same purpose buses have been provided at minimal cost. Recycle and reuse of renewable resources. Bicycles are available for use to move from one place to other inside the campus.
- Battery driven vehicles also run inside the campus.
- Solar heating system installed at Hostels.
- Green audit planned.
- Use of CFL Lecture rooms with good ventilation and natural light: There is adequate cross ventilation and permeation of natural light, which helps lower the use of electricity. Use of Renewable Energy. Water harvesting:
- Measures are in place to reduce carbon emission and keep the campus pollution free. Fleet of university buses help minimize the use of individual vehicles and thereby help in reducing pollution through emissions. Parking facility is provided in the designated areas, near the entrances, so that vehicles do not ply through the campus. Planting of trees and shrubs along with well maintained lawns and gardens also contribute towards carbon neutrality. Guest lectures for sensitizing students and spreading awareness about energy conservation & environment protection, are conducted from time to time. Open fire and burning of paper and garden waste is prohibited in the campus. The campus is a tobacco free campus, and tobacco items are neither sold nor allowed in the entire campus.
- The green ambience of the university campus is largely due to regular & massive plantation drives. There are about 25 different types of trees in the campus. The University has plenty of green spaces. This not only enhances the beauty & ambience of the campus, but it also helps reduce pollution, making its environment more conducive. Besides, NSS volunteers of the University regularly carry-out tree plantations in and around the campus. Hazardous waste management
- University does not generate any major hazardous waste form. However, wastes such as chemicals, biological cultures, etc. coming out of the laboratories are collected and disposed as per guidelines of CPCB. E-Waste management
- MOU is being signed to recycle E waste generated in the campus through E-contractors.

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.

Various innovative practices have been undertaken by various departments for creating positive impact on functioning of the institution

1. Innovative teaching and learning practices:
 - a. Include Inverted classroom approach to affect better / enhanced learning among students.
 - b. Content management systems and Learning management systems

- c. Faculty members have their independent course websites and use OERs for delivery of their subjects.
 2. University offers 'Study Abroad Programme' that enables students to experience the international study culture under a different educational system abroad. Students have undertaken internships in Philippines through AIESEC, an International Student's Organization.
 3. "Biopreneur Club" formed by students of Biotechnology Department to promote entrepreneurship skills among university students.
 4. International Conference (ICETCT -2016, RIEECS - 2017) organized
 5. Start up cell for skill development towards commercialisation and employment generation
 6. Live problem based projects (department/interdepartmental) under faculty mentorship, field trainings, regular scheduled seminars, regular guest lectures, course related projects, participation in various competitions at State/ National level, dissertations, online courses (self learning practice) using MOOCs (EdX) etc
 7. Groups created on social media applications for effective communication
 8. Introduced innovative experiments in the lab.
 9. Entrepreneurship development and an Incubation centre has been developed for continuous evaluation of students
 10. IQAC organized presentations of teaching techniques of newly recruited faculty, which was evaluated by senior faculty and suggestions were given for improvement
 11. Additional M.O.U's have been established between industries and institutions to provide subject related expertise to the students. Lectures and interactive sessions were held with distinguished alumni.
- Innovation for quality assurance in academic system and delivery:
 - Innovative teaching and learning practices
 - Induction of quality faculty
 - Periodic Revision of curriculum
 - Constant Up gradation of skills of faculty members
 - Scholarships for students
 - Student Welfare Fund
 - Information and Communication Technology (ICT) facilities
 - Modern Library
 - Innovation to strengthen the university research base
 - Innovations that have made impact on student life in the University
 - TBI & STEP have already motivated students and faculty
 - Start up cell for skill development towards commercialisation and employment generation

The description of some of them is given below

Name of the innovative event/activity	Impact
"Biopreneur Club" formed by students and faculty	Will help promote entrepreneurship skills among

members of Department of Biotechnology	university students. Initiated by the students of the Department of Biotechnology to create a platform for students of GEU/GEHU to transform their innovative ideas into entrepreneurship and business startups. A mushroom cultivation laboratory has been established by the club in the University which is currently cultivating Oyster for sale. The B'Club has also organized several seminars, visits, expert lectures and competitions to promote entrepreneurship among the students.
RIEECS – 2017 (International Conference on Recent Innovation in Electrical, Electronics & Communication Systems (RIEECS-2017)), October 28-29, 2017, Jointly organised by department of Electrical Engineering and Department of Electronics and Communication Engineering	The conference provided an exceptional platform for exchange of ideas and discuss the utmost solutions, scientific results and methods in solving stimulating problems among researchers, students, developers, and practitioners in the areas of electrical, electronics and communication engineering.
Hands on training in Plant Tissue Culture and Microbial Interactions (UCB funded) [Jan., 2017]	To provide working experience of latest plant tissue culture techniques and exposure to microbial interaction studies.

Various workshops/seminars/conferences organized are as follows

S.No.	Event	Date	Duration	Remark
1.	Workshop on Grooming & Etiquettes for Business Professionals	19/08/16	1 DAY	A special guest lecture was being organized for students on Emerging trends in hospitality and tourism industry by Dr. Shiv Mohan Verma, Principal Bikaji Cama Subharti Institute of Hotel Management. This workshop helped students to learn the basic grooming standards which are followed in Hotel Industry
2.	National Conference Cum Workshop On Recent Trends In Biology, Culture, Conservation, Commercialization, And Sustainable Utilization Of Medicinally And Floriculturally Important Orchids (Jointly Organized With Tosi) Funded By Icar, Dst, Ucost, Ucb, Userc.	24/03/17 - 26/03/17	3 DAYS	The events organised by the TOSI Society Chandigarh in collaboration with GEU, provided a common forum for exchange of ideas amongst the orchid scientists, growers and enthusiasts.
3.	One Day Workshop on Mixology & Bar Skill	27/08/16	1 DAY	Mock tails are an integral part of food service and it covers an umbrella of technically and artistically designed mixed drinks or Mock tails. The session was being conducted as a cross training for MBA students as well as our internal students facilitated as bar trainers and service mentors. The session was an important learning experience for everyone. The students of the department were trained for the concept termed Mixology and

				simultaneously learnt the art of flaring
4.	Monsoon Raga	3/09/16	1 DAY	A unique theme based food festival "MONSOON RAGA" was organized by SOHMH, GEU. The festival showcased monsoon ambiance and snacks along with interesting presentations by the students. This event was helpful in developing creative skills in the students of Hotel Management Courses
5.	International Conference on Hospitality & Tourism (ICHT-2017)	20/1/2017 & 21/1/2017	2 DAYS	Themed on title "Trends, issues and women in hospitality and tourism industry, ICHT-2017 had invited eminent personalities from India and Overseas- Universities, institutions, scientific bodies as well as stakeholders from NGOs, private organizations, research bodies who delivered plenary & vision talks along with panel discussion on the various themes. Various research papers were presented by delegates from India and Overseas.
6.	"Art of Coffee Brewing" by special Coffee brewing experts	4/2/2017	1 DAY	The workshop involved session wherein the delicate information and demonstration on coffee beans, their roasting techniques, their grinding types and brewing styles was demonstrated for the students and each student independently learnt to brew a perfect cup of coffee. The coffee brewing experts Mr.TusharArora&Mr. Surya Pundir conducted this special training session on coffee brewing and individually trained the students in all the aspects of coffee brewing.

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

PLAN OF ACTION	ACHIEVEMENTS
To Boost research activities in terms of paper publication, research project submission and consultancy services	Research paper Published : 305 (Scopus indexed: 105+) Research project submitted : 05 (243 Lakhs) Research project granted : 06 (Approx 325 Lakhs) Research consultancy services granted : 14 (Approx 167 Lakhs) Number of Ph.D degrees awarded-19
To Organise workshops/invited talks/seminars	33 Conference/workshops/invited talks/seminars were organised on following topics in various deptt. Elements of Hydro Powerplant, River Training Techniques: Fundamentals, Design and Applications, Geospatial Technology and

	<p>Applications, Role of Civil Engineers in Wildlife Conservation, How to Deal with College Stress and Manage Stress, Future Power Systems: Adapting to New Challenges, Managed Pressure Drilling, Offshore Oil and Gas export Pipeline Design, Frontiers in Bioenergy Production & Processing for Meeting Climatic Change Issues in 21st Century, Big Data and Applications, Professional Skills Development, Orientation cum Interaction, Java in IT Industry, Workshop on emotional Intelligence, Biodiversity act, Developing Employability skills in hospitality, 'Effect of Diet on Health and Behavior, Financial Education and Awareness (an initiative by SEBI), Gearing up for hospitality industry, Mind Body Relationship, NUCLEI AND THE COSMOS, Digital Marketing, Start up/Stand up/Mudra, Android Programming, Hands on Training in Plant Tissue Culture and Microbial Interactions, Training programme on Reservoir Modeling and Simulation, Workshop on Industry Skill Up-gradation through TATA Competency centers, Tata Technology Training Product design through CREO, Tata Technology Training Product design through CATIA, Tata Technology Training Product design through PLM Technology etc.</p>
To Encourage students to participate in international programs in order to introduce a global setting in management education (Value added programme).	<p>Active participation of students in research & design competitions at National & International level is also encouraged. Faculty members are encouraged to submit research proposal to external funding agencies.</p> <p>The students are also involved in research projects. Findings of the projects are published in conferences/journals.</p> <p>Students are motivated to participate in such programs. In fact various students undergone summer school with the foreign Universities at international level.</p>
To provide opportunity to students to listen industry leaders and experts in order to lend a practical and relevant focus to their education (Skill development programme).	Students are provided with an opportunity to listen to talks given by several industry experts.
To encourage our faculty members to participate in research conferences, seminars and Faculty Development Programs;	85
To ensure that all the faculty members teaching different courses submit their course outlines which should have clearly laid out course objectives and evaluation criteria;	All the course outlines were monitored. They were submitted in time with clearly laid out course objectives and evaluation criteria.

It was suggested that all the full time faculty members teaching courses allocate at least one hour per week outside regular class hours for interaction with the students. This should be mentioned clearly in the course outline;	The suggestion was implemented by all the faculty members.
Extension Activities	Blood donation camps held, students actively participated in relief camp of Forest fire protection, Swach bharat etc.

7.3 Give two Best Practices of the institution

Innovative practices are presented as examples of the university's continuous efforts towards quality improvement in applied research, quality teaching, and administrative aspects.

1. Research, Consultancy & Extension

- It has been our sincere endeavor to encourage and elevate research in the university. The faculty members are constantly motivated to enthusiastically contribute in research projects and assignments. The faculty and staff of university have published around **305** technical papers in National/International Journals /International Conference Indexed Conference Publication in 2016-17 in addition to 33 book/book chapters. We also have 7 Patents filed this year. Research Grants worth Rs 3.25 Crores have been sanctioned in 2016-17 by different funding agencies like DST, BARC, USB, UCOST, DRDO, ISRO etc.
- The university has Technology Business Incubator (TBI) for innovation and entrepreneur development funded by DST, New Delhi under the supervision of Dr. V K Tewari, DG and Professor in Mechanical Engg Department. As per recent announcement by the Prime Minister, the startup projects from this state are to be submitted through TBI only. So far ten startup projects have been sanctioned by DIPP, GOI and seven are under review process in addition to 53 queries have already in pipeline.
- Alongwith TBI, GEU in collaboration with STEP has actively involved in various industry consultancy projects. So far approx Rs. 2.30 crore amount consultancy projects are going on in Some of industries like Halidiram, Savaria , UREDA, UNIDO, Gopalji, Shaktibhog Ltd etc.
- Besides providing financial support, GEU also promotes research by offering research based performance incentives/research awards to faculty members and students and financial support to participate in Conferences, Symposia, Seminars and Workshops, etc. This year we have organized 24 conf/seminars/workshops in various departments of the university.

2. Adopting Environment Friendly Practices In Campus

- Bicycles provided for in and around University campus so as to minimise fuel consumption.
- Recycling of waste- measures taken by university for recycling of waste are
 - i. Establishment of Vermicompost unit for producing biofertilizer from animal, paper and horticulture wastes.
 - ii. Two constructed wetland systems have been established at GEU dairy farms with the help of research grants received from DBT & MOEF for treatment and reuse of dairy wastewater. These

projects also aim to assess reuse potential of treated water and assess the efficacy of partially treated wastewater to be used in crop irrigation as a liquid fertilizer.

- Cleanliness drive in various departments on a regular basis.
- Use of green technologies is encouraged.
- An eco friendly and Green Campus with more than 500 trees.
- E-waste to be disposed in the appropriate manner
- Solar Heaters at all the Hostels
- Plantation Drives organized regularly by the College
- An environment club established.

7.4 Contribution to environmental awareness / protection

In order to spread awareness amongst faculty, staff members and also students for environment conservation, its need and importance, many measures are adopted by the university

- a. Every Year World Environment Day is celebrated in Graphic Era University on 5th of June to spread awareness about the Environment. Guest lecture are also arranged to create awareness amongst students and faculty members.
- b. Establishment of separate department of Environmental Science.
- c. Installation of eco-friendly solar panels and solar water heaters in the university hostels.
- d. Establishment of Solid Waste Management system
 - I. Vermicompost unit in University
 - II. Partial financial and full administrative support from university for establishment of Constructed Wetland systems for Dairy waste water treatment
- e. Seminar on “Biodiversity Bill 2001” conducted on 17th Nov 2017 in collaboration with PHD Chamber of Commerce to spread awareness amongst faculty members, researchers and students regarding Biodiversity, its importance and need for conservation.
- f. Encouragement to students by carrying cleanliness drives in various departments on a regular basis.
- g. Use of green technologies encouraged in the university.
- h. A lush Green Campus with more than 500 trees.
- i. E-waste disposal in an appropriate manner
- j. Plantation Drives organized regularly by the College
- k. Participation of university students, and staff members in Swachh Bharat Abhiyaan at state level.

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

Research - frontier areas, socially impactful, aligned with national missions

International presence and focus

Good rapport with the local institutions/Universities/industries/R&D organisations

Weaknesses

not so good connectivity of the city with other important locales of the country and abroad

Opportunities


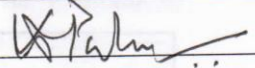
Leveraging high caliber researchers for more interdisciplinary projects
 Boosting social work programs to include more research output

Challenges

Lack of adequate pool of high caliber applicants for research positions
 Delays in processing of Govt sponsored research funding, etc.

8. Plans of Institution for next year

There are general plans related to curricular enhancements, new programs, program renewal, increase in intake, faculty and staff development (integrated performance appraisal and compensation), research and consultancy (research output linked with incentive and reward schemes, performance appraisal, specific research targets, new centers & labs, seed grants, etc.), facilities and infrastructure enhancements, etc.

Name <u>PRAVIN P. PATIL</u>	Name <u>L.M.S. PALNI</u>
	
Signature of the Coordinator, IQAC	Signature of the Chairperson, IQAC
Prof. (Dr.) Pravin Patil	Prof. (Dr.) L.M.S. Palni
HOD (ME/AME), Dean (R&D)	Vice Chancellor
Graphic Era (Deemed to be University)	Graphic Era (Deemed to be University)
Clement Town, Dehradun (Uttarakhand)	Dehradun (Uttarakhand)

Annexure I

FEEDBACK, ANALYSIS/REVIEW, ACTION (2016-17)

Keeping cognizance of the need and importance of the feedback from stakeholders, the University has a system of gathering and incorporating feedback from various sources at various levels, and necessary action is taken. The feedback process is three-tier – Central level (through University's Cell), Department level I – through formal processes, and level II – through class coordinators informally on daily/weekly basis.

A. Student Feedback regarding faculty (HR Department)

To ensure the course feedback from the students closes the loop, the same is shared with the respective faculty members in time, for necessary improvements/action.

Feedback from Students on faculty members' course delivery is obtained by the HR department every semester, using an online tool for ensuring confidentiality. A compilation of same is shared with the respective Heads of Department, for discussing same with their faculty members, and necessary deliberations or interventions are carried out for further improvement. The detailed observations of students are shared with each faculty member in person to apprise him/her of what the students feel about their sessions, and ways to overcome negatives and strengthen the positives are discussed. The identity of students is kept hidden in the process.

Snapshots of the software are provided below, and a sample report of one of the departments is attached for perusal (Attachment 1).

The image displays two screenshots of a web application for Graphic Era University. The top screenshot shows the 'Add Student' form, which includes dropdown menus for Course List, Branch List, Batch List, Semester, Section, and Group. It also features a table for adding students with columns for User Name and User Password, and buttons for Save and Reset. The bottom screenshot shows the 'Feedback Report' form, which includes dropdown menus for Department List, Faculty List, Select Year, and Select Semester. It also has buttons for Show, Export As XLS, and Reset.

B. Alumni & Recruiter feedback (Alumni Cell & Placement Cell)

Graphic Era University focuses extensively on Alumni involvement in reshaping the academic curriculum in order to meet the evolving industry demands. Our Alumni working with reputed corporate houses at national and international level visit the University on regular basis for an interactive session with the students. Based on the industry trends, our Alumni suggested redefining the course curriculum to have a more practical approach as compared to theoretical learning. It was also suggested to introduce a few specialization courses which are in line with the current technological advancements to make the students industry ready and also open new avenues for placement.

Taking these suggestions into consideration, Graphic Era has incorporated regular industrial visits and live projects as part of the curriculum. Career and Life Skill Training has been introduced as a mandatory part of the course structure along with regular PDP Sessions focusing on general proficiency and computer skills.

Regular Guest Lectures and Seminars by Alumni also form a part of the curriculum wherein they share their insights about the corporate culture and prepare the students for the same. Our Alumni have also conducted PDP Sessions for final year students prior to the placement drives.

The Placement Cell focuses comprehensively on regular recruiter involvement in reshaping the academic curriculum in order to meet the evolving corporate demands. After receiving the feedback/suggestions from the recruiters, certain topics/modules have been incorporated in our curriculum and greater focus has been made towards more practical exposure.

C. Student, Parent, Alumni and Industry Feedback (Respective Departments)

Regular feedback about the teaching learning process is sought from the students and alumni and necessary modifications and improvements are done accordingly. The suggestions/advice from

the Industry experts and parents is also gathered through meetings or feedback questionnaires, by various departments at their level. The department follow their own methods of collecting feedback through Stakeholder meetings (like Industry Academia Alumni Student & Parent interface (IAASP Meeting) in case of Management Department, and feedback forms filled by stakeholders (by other departments).

The suggestions/observations/feedback from all these stakeholders is recorded and necessary action is taken. In case of curriculum these feedback are reviewed and incorporated in the proposal for perusal/recommendations of BOS and approval by Academic Council and BOM. The delivery level improvements are initiated by the Departments at their own level. Any administrative concerns are communicated to the concerned University cells.

A recording of IAASP Meeting of School of Management (Attachment 2) and a feedback Analysis report of Civil Department are attached for perusal with copy of certain feedbacks (Attachment set 3).

Feed back and action taken summary report (Civil department)

Attached herewith are sample sheets of feedback taken from Students, Alumni, Parent, Entrepreneurs and the Industry, and a summarized report of the actions taken on the feedback, is as follows:

S.No	Stake Holder Group	Points of Interest	Action Taken by HOD
1	Students	Academics, Curriculum, Performance	Suggested the Faculty members for improvement. Problems like voice, making the topic interesting by giving practical examples, etc. Industrial visits for better understanding.
2	Alumni	Academics, Performance	With Respect to the alumni suggestions, effort is kept in making some arrangement for GATE and Competitive examinations preparation for the students.
3	Parents	Performance , Infrastructure	As suggested by some parents, additional training programs are involved in the time table to make the students well prepared for placements.
4	Entrepreneurs	Self Employment and Contract Interests	Planning for more interaction with the industry and contract experts. Consultation with various companies and arranging visits. Awareness to students about entrepreneurship.
5	Employers/ Companies	Curriculum	Requested all faculty members to give continuous suggestions to students to become good professionals.



Academic Calendar Odd Semesters-July-December 2016

JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		JANUARY 2017	
1	Fri 1 Start of Odd Sem III, V, VII (Students Registration followed by teaching/labs)	1	Mon 26	1	Thu 30	1	Sat MSBT	1	Tue	1	Thu ESBT	1	Sun Even Sem starts (Students Registration followed by teaching/labs)
2	Sat 2 26 Students Registration followed by teaching/labs)	2	Tue 27	2	Fri 31	2	Sun Mahatma Gandhi Jayanti	2	Wed	2	Fri ESBT	2	Mon Even Sem starts (Students Registration followed by teaching/labs)
3	Sun	3	Wed 28	3	Sat 30	3	Mon MSBT	3	Thu 86 SEMINAR	3	Sat ESBT	3	Tue
4	Mon 3	4	Thu 29	4	Sun	4	Tue MSBT	4	Fri 87	4	Sun ESBT	4	Wed
5	Tue 4	5	Fri 30	5	Mon 31	5	Wed 70	5	Sat 88	5	Mon ESBT	5	Thu
6	Wed 5	6	Sat 31	6	Tue 54	6	Thu 71	6	Sun 89 Normal working Day	6	Tue ESBT	6	Fri
7	Thu 6 Eid-Ul-Fitr	7	Sun	7	Wed 55	7	Fri 72	7	Mon 90	7	Wed ESBT	7	Sat
8	Fri 7	8	Mon 32	8	Thu 56	8	Sat 73	8	Tue 91	8	Thu ESBT	8	Sun
9	Sat 8	9	Tue 33	9	Fri 57	9	Sun	9	Wed 92	9	Fri ESBT	9	Mon
10	Sun 9	10	Wed 34	10	Sat 58	10	Mon Ramanavami	10	Thu 93	10	Sun ESBT	10	Tue
11	Mon 10	11	Thu 35	11	Sun	11	Tue Dussehra	11	Fri 94	11	Mon ESBT	11	Wed
12	Tue 11	12	Fri 36	12	Mon 59	12	Wed Muharram	12	Sat 95	12	Tue ESBT	12	Thu
13	Wed 12	13	Sat 37	13	Tue 60	13	Thu 74	13	Sun	13	Wed ESBT	13	Fri
14	Thu 13	14	Sun	14	Wed 61	14	Fri 75	14	Mon Gurunank Jayanti	14	Thu BPEES	14	Sat
15	Fri 14	15	Mon 38	15	Thu 62	15	Sat 76	15	Tue 96	15	Mon BPEES	15	Sun
16	Sat 15	16	Tue 39	16	Fri 63	16	Sun	16	Wed 97	16	Tue BPEES	16	Mon
17	Sun 16	17	Wed 40	17	Sat 64	17	Mon 77	17	Thu 98	17	Wed BPEES	17	Tue
18	Mon 17 14 Start of B.Tech I st sem.	18	Thu 41	18	Sun	18	Tue 78	18	Fri 99	18	Thu BPEES	18	Wed
19	Tue 18	19	Fri 42	19	Mon 65 MSBT	19	Wed 79	19	Sat ESBT	19	Mon BPEES	19	Thu
20	Wed 19	20	Sat 43	20	Tue 66 MSBT	20	Thu 80	20	Sun	20	Tue BPEES	20	Fri
21	Thu 20	21	Sun	21	Wed 67 MSBT	21	Fri 81	21	Mon ESBT	21	Wed BPEES	21	Sat
22	Fri 21	22	Mon 44	22	Thu 68 MSBT	22	Sat 82	22	Tue ESBT	22	Thu BPEES	22	Sun
23	Sat 22	23	Tue 45	23	Fri 69 MSBT	23	Sun	23	Wed ESBT	23	Fri BPEES	23	Mon
24	Sun 23	24	Wed 46	24	Sat 70	24	Mon 83	24	Thu ESBT	24	Sat BPEES	24	Tue
25	Mon 24	25	Thu 47	25	Sun	25	Tue 84	25	Fri ESBT	25	Sun Christmas	25	Wed
26	Tue 25	26	Fri 48	26	Mon MSBT	26	Wed 85 SEMINAR	26	Sat ESBT	26	Mon Christmas	26	Thu
27	Wed 26	27	Sat 49	27	Tue MSBT	27	Thu Dussehra	27	Sun	27	Tue ESBT	27	Fri
28	Thu 27	28	Sun	28	Wed MSBT	28	Fri 86	28	Mon ESBT	28	Wed ESBT	28	Sat
29	Fri 28	29	Mon 49	29	Thu MSBT	29	Sat 87	29	Tue ESBT	29	Thu ESBT	29	Sun
30	Sat 29	30	Tue 50	30	Fri MSBT	30	Sun	30	Wed ESBT	30	Fri ESBT	30	Mon
31	Sun 30	31	Wed 51	31	Mon	31	Mon	31	Thu Display of Time Table Even Sem	31	Sat ESBT	31	Tue

MSBT: Mid Semester Examination-Practical
ESBT: End Semester Examination-Theory
BPEES: Back Paper Examination-Even Semester

- Holidays are indicative and will be notified by the Registrar Office
- Sunday, November 6, 2016 will be a normal working Day

Registrar

Academic Calendar Even Semesters January-June 2017

JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	Odd Sem Starts Students Registration followed by teaching/labs
1 Sun Students Registration followed by teaching/labs	1 Wed 26	1 Wed 49	1 Sat 67	1 Mon 89	1 Thu ESET	1 Sat ESET	
2 Mon Students Registration followed by teaching/labs	2 Thu 27	2 Thu 50	2 Sun 68	2 Tue 91	2 Fri ESET	2 Sun ESET	
3 Tue Students Registration followed by teaching/labs	3 Fri 28	3 Fri 51	3 Mon 69	3 Wed 92	3 Sat ESET	3 Mon ESET	
4 Wed 3	4 Sat 29	4 Sat 52	4 Tue 70	4 Thu 93	4 Sun ESET	4 Tue ESET	
5 Thu 4	5 Sun 30	5 Sun 53	5 Wed 71	5 Fri 94	5 Mon ESET	5 Wed ESET	
6 Fri 5	6 Mon 31	6 Mon 54	6 Thu 72	6 Sat 95	6 Tue ESET	6 Thu ESET	
7 Sat 6	7 Tue 32	7 Tue 55	7 Fri 73	7 Sun 96	7 Wed BPEOS	7 Fri BPEOS	
8 Sun 7	8 Wed 33	8 Wed 56	8 Sat 74	8 Mon 97	8 Thu BPEOS	8 Sat BPEOS	
9 Mon 8	9 Thu 34	9 Thu 57	9 Sun 75	9 Tue 98	9 Fri BPEOS	9 Sun BPEOS	
10 Tue 9	10 Fri 35	10 Fri 58	10 Mon 76	10 Wed 99	10 Sat BPEOS	10 Mon BPEOS	
11 Wed 10	11 Sat 36	11 Sat 59	11 Tue 77	11 Thu 100	11 Sun BPEOS	11 Tue BPEOS	
12 Thu 11	12 Sun 37	12 Sun 60	12 Wed 78	12 Fri 101	12 Mon BPEOS	12 Wed BPEOS	
13 Fri 12	13 Mon 38	13 Mon 61	13 Thu 79	13 Sat 102	13 Tue BPEOS	13 Thu BPEOS	
14 Sat 13	14 Tue 39	14 Tue 62	14 Fri 80	14 Sun 103	14 Wed BPEOS	14 Fri BPEOS	
15 Sun 14	15 Wed 40	15 Wed 63	15 Sat 81	15 Mon 104	15 Thu BPEOS	15 Sat BPEOS	
16 Mon 15	16 Thu 41	16 Thu 64	16 Sun 82	16 Tue 105	16 Fri BPEOS	16 Sun BPEOS	
17 Tue 16	17 Fri 42	17 Fri 65	17 Mon 83	17 Wed 106	17 Sat BPEOS	17 Mon BPEOS	
18 Wed 17	18 Sat 43	18 Sat 66	18 Tue 84	18 Thu 107	18 Sun BPEOS	18 Tue BPEOS	
19 Thu 18	19 Sun 44	19 Sun 67	19 Wed 85	19 Fri 108	19 Mon BPEOS	19 Wed BPEOS	
20 Fri 19	20 Mon 45	20 Mon 68	20 Thu 86	20 Sat 109	20 Tue BPEOS	20 Thu BPEOS	
21 Sat 20	21 Tue 46	21 Tue 69	21 Fri 87	21 Sun 110	21 Wed BPEOS	21 Fri BPEOS	
22 Sun 21	22 Wed 47	22 Wed 70	22 Sat 88	22 Mon 111	22 Thu BPEOS	22 Sat BPEOS	
23 Mon 22	23 Thu 48	23 Thu 71	23 Sun 89	23 Tue 112	23 Fri BPEOS	23 Sun BPEOS	
24 Tue 23	24 Fri 49	24 Fri 72	24 Mon 90	24 Wed 113	24 Sat BPEOS	24 Mon BPEOS	
25 Wed 24	25 Sat 50	25 Sat 73	25 Tue 91	25 Thu 114	25 Sun BPEOS	25 Tue BPEOS	
26 Thu 25	26 Sun 51	26 Sun 74	26 Wed 92	26 Fri 115	26 Mon BPEOS	26 Wed BPEOS	
27 Fri 26	27 Mon 52	27 Mon 75	27 Thu 93	27 Sat 116	27 Tue BPEOS	27 Thu BPEOS	
28 Sat 27	28 Tue 53	28 Tue 76	28 Fri 94	28 Sun 117	28 Wed BPEOS	28 Fri BPEOS	
29 Sun 28	29 Wed 54	29 Wed 77	29 Sat 95	29 Mon 118	29 Thu BPEOS	29 Sat BPEOS	
30 Mon 29	30 Thu 55	30 Thu 78	30 Sun 96	30 Tue 119	30 Fri BPEOS	30 Sun BPEOS	
31 Tue 30	31 Fri 56	31 Fri 79	31 Mon 97	31 Wed 120	31 Sat BPEOS	31 Mon BPEOS	

MSEP: Mid Semester Examination-Practical
MSET: Mid Semester Examination-Theory
ESEP: End Semester Examination-Practical
ESET: End Semester Examination-Theory
BPEOS: Back Paper Examination-Odd Semester

Holidays are indicative and will be notified by the Registrar Office

V.C. S. Kant
Registrar

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
