

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY
(Deemed-To-Be-University)
LONOGOWAL-148106

ACADEMIC AUDIT (2023 - 2024)

PROFORMA OF ASSESSMENT

1. **Name of the Department :** Management and Humanities
2. **Reviewer (Name, Designation & Address) :**
 - Dr. S. N. Rangnekar, Professor, Department of Management Studies, IIT Roorkee (01332-285422, 285014)
 - Dr. Surinder Singh Dean (R&C)
 - Dr. Harish Chopra, Prof. (CHY)
 - Dr. Pardeep Kumar Jain, Prof. (M&H)
 - Dr. Mahesh Kumar Arora, Prof. (M&H)
 - Dr. Mandeep Ghai, ASP (M&H)
 - Dr. JapPreet Kaur Bhangu, Prof. & HOD (M&H)

Date of Review:

NOTE:

- i. Please grade in the box provided for the following parameters in the range of 1-10 with 10 being the highest.
- ii. Leave 'blank' for 'No Comment'.
- iii. Kindly give your opinion on the strength and weakness of the Department and your suggestions for future growth.

A. ACADEMICS

A.1	ICD Programme	Score	
		Self- assessment	Expert assessment
1.	Curriculum (Structure, Course Syllabi, Flexibility), Theory/ practical (contents/ratio).	09	8
2.	Equivalence and Relevance of curriculum at national level	09	8
3.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	9
4.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	10	9
5.	Tour/Training/Industrial visits/Internship opportunities provided during the year	07	8
6.	Effectiveness of Assisted Learning, Tutorial System for ICD Students/ Seminars (Refer Course File)	09	8
7.	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	10	9
8.	Practical activities, non-academic and totally related to a specific trade for skill development and <i>developing expertise in a particular group of techniques.</i>	10	9
9.	Linkage of ICD programs to outcome based vocational education (Industry linkage)	07	8
10.	Availability of workshop type lab/laboratory for providing hand on training to the students for skill development	09	8
Total Score (out of 100)		90	84







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A.2	UG Programme	Score	
		Self- assessment	Expert assessment
1.	Curriculum (Structure, Course syllabi, Flexibility, Choice based credit system)	09	8
2.	Status of study material developed by faculty for students	09	8
3.	Relevance of contents of courses taught to the students and scope of improvement (revision of syllabus, addition of new experiments)	09	8
4.	Formal academic load on students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	9
5.	Modern teaching methods in practice other than the conventional methods E-Assisted Learning (i) Availability of Library Resources (ii) Multi-Media Assisted Teaching	08	8
6.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation) (i) Theory and tutorial (ii) Practical (case studies)	10	9
7.	Faculty-Student Interaction (Whether any slot is fixed for the students to interact with a teacher, after classes/labs)	10	9
8.	Tour/Training/Industrial visits/Internship opportunities	07	07.
9.	(a) Effectiveness of Assisted Learning in Tutorial classes/seminars for Students	09	8
	(b) Faculty Mentoring/Faculty Advisor System for Students/Class of Students	09	8
10	Placement %age/higher studies options (last three years)	08	8
Total Score (out of 100)		98	90

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A.3	PG Programme (Separate for each programme)	Score	
		Self-assessment	Expert assessment
1.	Curriculum (Structure, Course Syllabi, Flexibility)	10	8
2.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	09	8
3.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	10	9
4.	Relevance of contents of courses taught to the students and scope of improvement	10	8
5.	Modern teaching methods in practice other than the conventional method E-Assisted Learning i. Availability of Library Resources and Major Search Engines (like Scopus, Web of Science) ii. Multi-Media Assisted Teaching	08	8
6.	Technical Societies/ Colloquium for Students i. Departmental Society ii. Student Chapter(s) of Professional Societies	-----	NA
7.	Tour/Training/Industrial visits/Internship opportunities	-----	NA
8.	Collaboration with other departments (within institute)	09	8
9.	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	09	8
10.	Monitoring and continuous evaluation of the project work assigned to the students (mechanism)	09	8
Total Score (out of 100)		74	65

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B RESEARCH

	Doctoral (Ph.D.) Programmes	Score	
		Self-assessment	Expert assessment
1.	Intake of Ph.D. Students	05	05
2.	Admission Process	10	09
3.	Pre-Ph.D. Courses and Evaluation Process	09	08
4.	Breadth and Depth of Knowledge of Students	09	08
5.	Seminar/ Presentations and Technical Communication	10	08
6.	Research Facilities available in the Department	06	05
7.	Average No. of Research Students/Faculty	04	04
8.	Average No. of Research Papers of Ph. D. Students (Indexed Journals)	06	05
9.	Average Duration to Complete Ph.D. (years)	06	05
10.	Participation of Research Scholars in Conferences/Workshops	06	06
Total Score (out of 100)		71	63

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B.1	Research and Industrial collaboration	Score	
		Self-assessment	Expert assessment
	Research Ambience in the Department		
	Research Awareness among Doctoral Students	09	08
	Thrust areas of research in the department	09	08
	Quality of Research	09	08
	Collaborations with other departments (within the institute) and at National, and International levels.	--	---
	Impact and Quality of Publications	06	06
	Relevance of Research to Knowledge Generation and Social Relevance	10	08
	Student Exposure for Attending Quality Conferences/Symposia	08	08
	Inter departmental collaborations	----	---
	Industry/externally funded sponsored research (Numbers and amount)	---	---
	Total Score (out of 100)	60	54

General Comments on

1. Plan of action of the department for the next five years (In view of NEP 2020)
 - a. Minor degree in Management- approved and started
 - b. Focus will be on starting of new programs as per the need of hour
2. Significant achievement of the department (Faculty/Staff/Students)
 - a. Contribution to corporate life / institute through different jobs and responsibilities by faculty members of the department.
 - b. Involvement of faculty in Outreach Activities of Indian Government, such as Unnat Bharat Abhiyan.
3. Scope for training of faculty staff for further strengthening the teaching learning process of strengthening the curriculum with addition of new courses having relevance at National and international levels.

All faculty members are well versed in their courses

4. Effective /Continuous monitoring of faculty staff in the delivery of course contents (at departmental level) for enhancing the teaching-learning process.

Through Student feedback system enabled on ERP for different Classes at the Institute Level.

5. Technical Societies / Colloquium for students
 - a. Soft Skills and Counselling Club- Dr. Pardeep Kumar Jain and Dr.Parveen Kaur Khanna (Coordinators)
 - b. Yoga and Health Club - Dr. Pardeep Kumar Jain(Coordinator)
 - c. Communication skills and Personality Development Cell - Dr JapPreet Kaur Bhangu (Coordinator)
 - d. Magazine Committee – Dr Sanjeev Kumar Garg (Chairman)
 - e. Newsletter Committee – Dr Sanjeev Kumar Garg (Edition – in - Chief)
6. Scope of improvement in the teaching - learning process
Tutorial based, Interactive Session, use of latest technology already being carried for continuous improvement in teaching learning process.
7. The skill and expertise of the Faculty/Technical Staff in the department (specific)

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Name of Faculty	Designation Qualification/Status	Contribution in Teaching	Other departmental and Institute duties
Dr. Jap Preet Kaur Bhangu	Professor, Ph.D.	Teaching ICD, B.Tech. and M. Tech Classes	HOD (M&H) Coordinator-Communication Skills and Personality Development Cell
Dr. Pardeep Kumar Jain	Professor, Ph.D.	Teaching ICD, B.Tech. and M. Tech Classes	CVO Coordinator-Soft Skills and Counselling Club Coordinator- Yoga and Health Club Coordinator-Unnat Bharat Abhiyan
Dr. Mahesh Kumar Arora	Professor, Ph.D.	Teaching ICD, B.Tech. and M. Tech Classes	-----
Dr. Pawan Kumar Dhiman	Professor, Ph.D.	Teaching ICD, B.Tech. Classes	Coordinator-War Room
Dr. Parveen Kaur Khanna	Professor, Ph.D.	Teaching ICD, B.Tech. and M. Tech Classes	Associate Dean (Student Welfare) Coordinator-Soft Skills and Counseling Club Member Unnat Bharat Abhiyan Presiding Officer (ICC)
Dr. Sanjeev Bansal	Professor, Ph.D.	Teaching ICD, B.Tech. Classes	Coordinator (MBA)
Dr. Sanjeev Kumar Garg	Professor, Ph.D.	Teaching ICD, B.Tech. Classes	Chairman-Magazine Committee Editor-In-Chief Newsletter (ANSHUMAT)
Dr. Mandeep Ghai	ASP, Ph.D.	Teaching ICD, B.Tech. Classes	Associate Dean (Examination & Secrecy) Member Unnat Bharat Abhiyan

Possible areas of Research

Management

- Labour welfare and Industrial relations
- Consumer Behaviour
- Government Economic and Social Policies
- Startups
- Impact of Technology on Entrepreneurship

English

- Communication Skills
- Literature and English language teaching
- Strengthening laboratory Infrastructure (adding of new equipment's and use of present facility for optimum use)

C. Departmental Infrastructure

C.1	Departmental resources	Score	
		Self-assessment	Expert assessment
1	Adequacy of Class Rooms and Multi-Media Facility	10	08
2	Availability of Laboratories	07	07
3	Availability of Conference/Seminar Room, etc	09	08
4	Availability of Seating Space for Faculty and Research Students	10	09
5	Availability of Internet Services in Research Labs and Class Rooms	10	09
6	Departmental Library and E-Resources	10	09
7	Computing Facilities and Software	09	09

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Dr. Mandeep Ghai

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8	Adequacy of Offices and Furnishing for Faculty	09	09
9	Faculty- Student Ratio	06	05
10	Support Staff (Technical/Administrative) Adequacy	05	05
Total Score (out of 100)		85	78

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SWOT analysis by the department :

STRENGTH:

1. The department has well qualified, experienced and dedicated faculty always ready to help the students in academic and non- academic activities such as community services, jobs/internships etc.
2. The faculty is well versed to provide relevant training in communication skills, soft skills and life skills other than the prescribed curriculum.
3. The entire management faculty is having industrial experience helping the students to equip the students with real industrial problems and their solution.
4. Appropriate research activities are carried out by the department faculty.
5. Significant contribution of the departmental faculty at institute level in various activities such as Examination, ICC, Vigilance and Institute newsletter.
6. Significant contribution of the departmental faculty in outreach activities in alignment with the Government & flagship programmes such as UNNAT BHARAT ABHIYAN, Yoga and Health etc.
7. Revision of curriculum from time to time with the involvement and input from industrial executives and expert academicians.

WEAKNESSES

1. The Department has no academic programme of its own.
2. MOUs to be signed with the industry.
3. Consultancy with industry to be developed.
4. Up-gradation of Communication lab.

OPPORTUNITIES

1. Starting of new programmes as per NEP 2020.

CHALLENGES:

1. Additional faculty sanction for sustaining the new programmes may take time.

SUGGESTIONS FOR IMPROVEMENT

1. Development of new communication lab.
2. To introduce new courses as per the requirement of NEP 2020.
3. To further augment communication skills of the students so as to increase the employability.

D. Outcomes

D.1	Placement/ higher studies/ Publications/ Consultancy, Ph.D. awarded etc.	Score	
		Self-assessment	Expert assessment
1	i. Placements for ICD ii. Placement of B.Tech iii. Placement of Masters Student iv. Placement of Ph. D. Students	06	06
2	Average No. of Ph. Ds Awarded per Year	05	05
3	Publications per Faculty in Indexed Journals/Year (Average of last three years)	08	05
4	Average Citations per Faculty/Year (Last-Three Years) (Web of Science/Scopus)	05	05
5	Recognitions; Awards(National/International) to Faculty/Students	-	-
6	Consultancy and Externally Funded Projects	-	-

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7	No. of Ph.D. graduates who took Academics as Career (Last 5 Years)	08	05
8	Students offered for higher studies	-	-
9	No. of qualified students NET/GATE/CAT etc (State/Central Civil Services)	-	-
10	Entrepreneurship	04	04
Total Score (out of 100)		36	30

Comments & Suggestions for Improvement

1. Advised to adabt new elective.
2. Indujoy connect & revival of M.B.A (Regular) program
3. Project & Research may be entered

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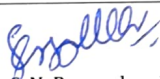
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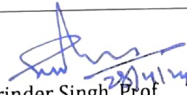
SUMMARY SHEET


1.	Name of the Department	Management and Humanities	
2.	Name of Reviewer Designation & Address	From Academia	From Industry
		Dr. S. N. Rangnekar, Professor, Department of Management Studies, IIT Roorkee (External Expert)	-----
3.	Date of Meeting	28-11-2024.	

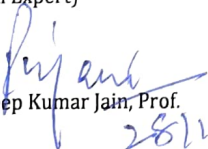
Score Summary							
Academics (A)				Research (Max Score 100)	Departmental Infrastructure (Max Score 100)	Outcome (Max Score 100)	Total Score (700)
ICD Programme (Max Score 100)	UG Programme (Max Score 100)	PG Programme (Max Score 100) (Average of all PG programs) (A.3)	Doctoral Programme (Max Score 100)				
(A.1)	(A.2)	(A.3)	(A.4)	(B)	(C)	(D)	(A+B+C+D)
84	90	65	63	54	78	30	464


Note: 1. Marks mentioned above are the average of the marks given by the experts.
2. If marks have not been allotted for some attributes by the experts, total score can be scaled to maximum marks.

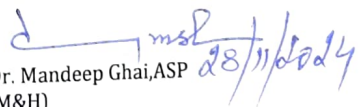

Dr. S. N. Rangnekar, Prof.
IIT Roorkee
(External Expert)


Dr. Surinder Singh, Prof.
Dean (R&C)


Dr. Harish Chopra, Prof. 28-11-24
(CHY)


Dr. Pardeep Kumar Jain, Prof.
(M&H) 28/11/24


Dr. Mahesh Kumar Arora, Prof.
(M&H)


Dr. Mandeep Ghai, ASP 28/11/2024
(M&H)


Dr. JapPreet Kaur Bhangu, Prof.
HOD (M&H) 28/11/2024

A. ACADEMICS

A.1 ICD Programme

1. Curriculum (structure, course Syllabi, Flexibility), Theory/Practical (Contents/ratio)

Assessment rubrics

The designed Curriculum have effectiveness, well-structured, Choice based credit system, industry-based syllabus, flexibility, and high theory to practical ratio following outcome based education	10 marks
The designed Curriculum have effectiveness, well-structured, Choice based credit system, industry-based syllabus, flexibility, and high theory to practical ratio	08 marks
The designed Curriculum have effectiveness, well-structured, Choice based credits, Industry-based syllabus, and high theory to practical ratio	08 marks
The designed Curriculum have effectiveness, well-structured, Choice based credits and Industry-based syllabus	04 marks
The designed Curriculum well-structured, Choice based credits and have effectiveness	02 marks

2. Equivalence and Relevance of curriculum at national level

Assessment rubrics

Equivalence and relevance of designed Curriculum with model curriculum $\geq 80-100\%$	10 marks
Equivalence and relevance of designed Curriculum with model curriculum, $\geq 60\%$ and $< 80\%$	08 marks
Equivalence and relevance of designed Curriculum with model curriculum, $\geq 40\%$ and $< 60\%$	06 marks
Equivalence and relevance of designed Curriculum with model curriculum, $\geq 20\%$ and $< 40\%$	04 marks
Equivalence and relevance of designed Curriculum with model curriculum, $< 20\%$	02 marks

3. Formal academic load on students [Teaching, Laboratory/practical, projects(minor/major)]

Assessment rubrics

Academic load of designed Curriculum with model curriculum, $\geq 80-100\%$	10 marks
Academic load of designed Curriculum with model curriculum, $\geq 60\%$ and $< 80\%$	08 marks
Academic load of designed Curriculum with model curriculum, $\geq 40\%$ and $< 60\%$	06 marks
Academic load of designed Curriculum with model curriculum, $\geq 20\%$ and $< 40\%$	04 marks
Academic load of designed Curriculum with model curriculum, $< 20\%$	02 marks

4. Evaluation process (Continuing Evaluation, and End-Term Evaluation)

Assessment rubrics

The designed Curriculum have standard and continuous teacher-based assessment grading criteria	10 marks
The designed Curriculum have standard as well as Tutorial, Quiz, Minor and End Term examination -based assessment grading criteria	08 marks
The designed Curriculum have standard and only Minor and End term examination-based assessment grading criteria	06 marks
The designed Curriculum have standard and only end term examination based assessment grading criteria	04 marks
The designed Curriculum does not have any standard assessment grading criteria	02 marks

5. Tour/Training/Industrial visit/Internship opportunities provided during the year

Assessment rubrics:

Admit students attended tour and training/Industrial visits $\geq 80-100\%$ of scheduled	07 marks
Admit students attended tour and training/Industrial visits $\geq 60\%$ and $< 80\%$ of scheduled	05 marks
Admit students attended tour and training/Industrial visits $\geq 40\%$ and $< 60\%$ of scheduled	03 marks
Admit students attended tour and training/Industrial visits $\geq 20\%$ and $< 40\%$ of scheduled	02 marks
Average Number of tours/class/ year > 1	01 marks
Average Number of tours and Industrial visits/class/ year: 0.25-1	03 marks
	02 marks

6. Effectiveness of assisted learning, tutorial system for ICD students/Seminars (refer Course file)

Assessment rubrics

Increased active involvement of weaker students in tutorial classes	02 marks
Improvement in students' analytical capabilities, and soft skills	02 marks
Improvement in communication skills of the students	1 mark
Effectiveness of seminar presentation by the students towards learning	1 mark
Assisted learning system for students in place	02 marks

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7. Faculty mentoring/Faculty advisor system for class of students

Assessment rubrics

Faculty mentoring/faculty adviser are available to admitted students >91%	10 marks
Faculty mentoring/faculty adviser are available to admitted students >81 and <90%	08 marks
Faculty mentoring/faculty adviser are available to admitted students >71 and <80%	06 marks
Faculty mentoring/faculty adviser are available to admitted students >61 and <70%	04 marks
Faculty mentoring/faculty adviser are available to admitted students >51 and <60%	02 marks

8. Practical activities, non-academic and totally related to a specific trade for skill development and developing expertise in a particular group of techniques.

Assessment rubrics

Students attended any practical, non-academic activity related to skill development >80%	10 marks
Students attended any practical, non-academic activity related to skill development $\geq 60\%$ and <80%	08 marks
Students attended any practical, non-academic activity related to skill development $\geq 40\%$ and <60%	06 marks
Students attended any practical, non-academic activity related to skill development $\geq 20\%$ and <40%	04 marks
Students attended any practical, non-academic activity related to skill development <20%	02 marks

9. Linkage of ICD program to outcome based vocational education (industry linkage)

Assessment rubrics

Hands on training load (Practical+Project+industrial training)/ total ICD load, $\geq 75\%$	10 marks
Hands on training load (Practical+ Project +industrial training)/ total ICD load, $\geq 60\%$ and <75%	08 marks
Hands on training load (Practical+ Project +industrial training)/ total ICD load, $\geq 50\%$ and <60%	06 marks
Hands on training load (Practical+ Project +industrial training)/ total ICD load, $\geq 40\%$ and <50%	04 marks
Hands on training load (Practical+ Project +industrial training)/ total ICD load, <40%	02 marks

10. Availability of workshop type lab/laboratory for providing hand on training to the students for skill development

Assessment rubrics

The workshop/lab can provide hands-on training for skill development >90%	10 marks
The workshop/lab can provide hands-on training for skill development >80% and <90%	09 marks
The workshop/lab can provide hands-on training for skill development $\geq 60\%$ and <80%	08 marks
The workshop/lab can provide hands-on training for skill development $\geq 40\%$ and <60%	06 marks
The workshop/lab can provide hands-on training for skill development $\geq 20\%$ and <40%	04 marks
The workshop/lab can provide hands-on training for skill development <20%	02 marks

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A.2 UG programme

1. Curriculum (Structure, Course Syllabi, Flexibility)

Assessment rubrics

The designed Curriculum have effectiveness, well-structured, Choice based credit system, industry-based syllabus, flexibility, and high theory to practical ratio following outcome based education	10 marks
The designed Curriculum have effectiveness, well-structured, Choice based credit system, industry-based syllabus, flexibility, and high theory to practical ratio	08 marks
The designed Curriculum have effectiveness, well-structured, Choice based credits, industry-based syllabus, and high theory to practical ratio	05 marks
The designed Curriculum have effectiveness, well-structured, Choice based credits and industry-based syllabus	04 marks
The designed Curriculum well-structured, Choice based credits and have effectiveness	02 marks

2. Status of study material developed by faculty for students:

Assessment rubrics

Study material developed by the faculty for subjects >80% and <100%	10 marks
Study material developed by the faculty for subjects >60% and <80%	03 marks
Study material developed by the faculty for subjects >40% and <60%	05 marks
Study material developed by the faculty for subjects >20% and <40%	04 marks
Study material developed by the faculty for subjects >5% and <20%	02 marks

3. Relevance of contents of courses taught to the students and scope of improvement (revision of syllabus, addition of new experiments)

Assessment rubrics

Adequate relevant contents of courses of program specific taught to students	10 marks
Adequate relevant contents of courses of other allied subjects taught to students	08 marks
Revision of syllabus within two-three years	06 marks
Revision of syllabus within four years	04 marks
Addition of new experiments	02 marks

4. Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects (minor/major)]

Assessment rubrics

Adequacy of formal academic load on students (teaching/Laboratory/practical)	10 marks
Adequacy of formal academic load on students (minor/major projects)	08 marks
Adequacy of formal academic load on students (minor/major projects)	06 marks
Flexibility to extend course duration in limited, exceptional circumstances	04 marks
Flexibility for opting the academic load for the odd semester/ even Semester/ Summer term/ Distance Session	02 marks

5. Modern teaching methods in practice other than the conventional methods (Course materials, PPT, videos have been developed by the faculty for the students)

E-Assisted Learning

- (i) Availability of Library Resources
- (ii) Multi-Media Assisted Teaching

Assessment rubrics

Course Materials, videos and PPT developed by the faculty	10 marks
Business/ Achievement Motivation Training	09 marks
Course Materials PPT developed by the faculty	08 marks
Library sources made available to students from other sources related to course	06 marks
Multimedia assisted teaching >65% and <100%	04 marks
Multimedia assisted teaching >15% and < 65%	02 marks

6. Evaluation Process (Continuing Evaluation, and End-Term Evaluation)

(i) Theory and tutorial

(ii) Practical (case studies)

Assessment rubrics

Question papers and Project work are aligned with the COs, POs and PSOs of the program	10 marks
Routine assessment is carried out for tutorials, class assignments (> 6 and <= 10) and laboratory work assigned (> 8 and <= 10)	08 marks
Routine assessment is carried out for tutorials, class assignments (> 4 and <= 6) and laboratory work assigned (> 6 and <= 8)	06 marks
Routine assessment is carried out for tutorials, class assignments (> 2 and <= 4) and laboratory work assigned (> 4 and <= 6)	04 marks
Routine assessment is carried out for tutorials, class assignments (<= 2) and laboratory work	02 marks

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assigned (≤ 4)

7. Faculty-Student Interaction (Whether any slot is fixed for the students to interact with a teacher, after classes/labs)

Assessment rubrics

Average Faculty-Student interaction per week after classes/ Labs > 10	10 marks
Average Faculty-Student interaction per week after classes/labs > 8 and ≤ 10	08 marks
Average Faculty-Student interaction per week after classes/labs > 6 and ≤ 8	06 marks
Average Faculty-Student interaction per week after classes/labs > 4 and ≤ 6	04 marks
Average Faculty-Student interaction per week after classes/labs > 2 and ≤ 4	02 marks

8. Tour/Training/Industrial visits/Internship opportunities

Assessment rubrics

Average Number of tours and industrial visits/class/year > 2 and internships	10 marks
Average Number of tours and industrial visits/class/year > 1 to ≤ 2 and internships	08 marks
Average Number of tours and industrial visits/class/year > 1 to ≤ 2	06 marks
Average Number of tours and industrial visits/class/year > 0.25 to ≤ 1 and internships	04 marks
Average Number of tours and industrial visits/class/year > 0.25 to ≤ 1	02 marks

9. Effectiveness of Assisted Learning in Tutorial classes/seminars for Students Faculty Mentoring/Faculty Advisor System for Students/Class of Students

Assessment rubrics

Increased active involvement of weaker students in tutorial classes	10 marks
Improvement in students' analytical capabilities, and soft skills	08 marks
Improvement in communication skills of the students	06 marks
Effectiveness of seminar presentation by the students towards learning	04 marks
Faculty mentoring/Faculty advisory system for students in place	02 marks

10. Placement %age/higher studies options (last three years)

Assessment rubrics

Average of Placement %age/higher studies $> 80\%$	10 marks
Average of Placement %age/higher studies $\geq 60\%$ and $< 80\%$	08 marks
Average of Placement %age/higher studies $\geq 40\%$ and $< 60\%$	06 marks
Average of Placement %age/higher studies $\geq 20\%$ and $< 40\%$	04 marks
Average of Placement %age/higher studies $< 20\%$	02 marks

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A.3 PG programme

1. Curriculum (Structure, Course Syllabi, Flexibility)

Assessment rubrics

The designed Curriculum have effectiveness, well-structured, Choice based credit system, industry-based syllabus, flexibility, and high theory to practical ratio following outcome based education	10 marks
The designed Curriculum have effectiveness, well-structured, Choice based credit system, industry-based syllabus, flexibility, and high theory to practical ratio	08 marks
The designed Curriculum have effectiveness, well-structured, Choice based credits, Industry-based syllabus, and high theory to practical ratio	06 marks
The designed Curriculum have effectiveness, well-structured, Choice based credits and industry-based syllabus	04 marks
The designed Curriculum well-structured, Choice based credits and have effectiveness	02 marks

2. Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]

Assessment rubrics

10hours formal Academic Load on Students (Laboratory/Practical, Projects)	10 marks
08-hours formal Academic Load on Students (Laboratory/Practical, Projects)	09 marks
06-hours formal Academic Load on Students (Laboratory/Practical, Projects)	08 marks
05hours formal Academic Load on Students (Teaching, Laboratory/Practical, Projects)	06 marks
04-hours formal Academic Load on Students (Teaching, Laboratory/Practical, Projects)	04 marks
02-hours formal Academic Load on Students (Teaching, Laboratory/Practical, Projects)	02 marks

3. Evaluation Process (Continuing Evaluation, and End-Term Evaluation)

Assessment rubrics

Question papers, Laboratory work and Project work are aligned with the COs, POs and PSOs of the program	10 marks
Routine assessment is carried out for tutorials, class assignments (> 6 and <= 10) and laboratory work assigned (> 8 and <= 10)	08 marks
Routine assessment is carried out for tutorials, class assignments (> 4 and <= 6) and laboratory work assigned (> 6 and <= 8)	06 marks
Routine assessment is carried out for tutorials, class assignments (> 2 and <= 4) and laboratory work assigned (> 4 and <= 6)	04 marks
Routine assessment is carried out for tutorials, class assignments (<= 2) and laboratory work assigned (<= 4)	02 marks

4. Relevance of contents of courses taught to the students and scope of improvement

Assessment rubrics

Adequate relevant contents of courses of program specific taught to students	10 marks
Adequate relevant contents of courses of other allied subjects taught to students	08 marks
Revision of syllabus within two-three years	06 marks
Revision of syllabus within four years	04 marks
Addition of new experiments	02 marks

5. Modern teaching methods in practice other than the conventional methods

E-Assisted Learning

- Availability of Library Resources and Major Search Engines (like Scopus, Web of science)
- Multi-Media Assisted Teaching

Assessment rubrics

Course Materials, videos and PPT developed by the faculty	10 marks
Course Materials PPT developed by the faculty	08 marks
Library sources and Major search engine made available to students and Multimedia assisted teaching	06 marks
Multimedia assisted teaching >65% and <100%	04 marks
Multimedia assisted teaching >25% and <65%	02 marks

6. Technical Societies / Colloquium for Students

- Departmental Society
- Student Chapter(s) of Professional Societies

Assessment rubrics

Technical Societies / Colloquium for Students and Student Chapter(s) of Professional Societies- 100 % participation of sanctioned strength	10 marks
Technical Societies / Colloquium for Students: 80 % participation of sanctioned strength	08 marks
Technical Societies / Colloquium for Students: 60 % participation of sanctioned strength	06 marks
Student Chapter(s) of Professional Societies: 60 % participation of sanctioned strength	04 marks

Student Chapter(s) of Professional Societies: 40 % participation of sanctioned strength

02 marks

7. Tour/Training/Industrial visits/Internship opportunities

Assessment rubrics

- Average Number of tours and industrial visits/class/year > 2 and Internships
- Average Number of tours and industrial visits/class/year > 1 to <=2 and Internships
- Average Number of tours and industrial visits/class/year > 1 to <=2
- Average Number of tours and industrial visits/class/year > 0.25 <=1 and Internships
- Average Number of tours and industrial visits/class/year > 0.25 to <=1

10 marks
08 marks
06 marks
04 marks
02 marks

8. Collaboration with other departments (within Institute)

Assessment rubrics

- Collaboration with other departments for 6 events in a year
- Collaboration with other departments for 5 events in a year
- Collaboration with other departments for 4 events in a year
- Collaboration with other departments for 3 events in a year
- Collaboration with other departments for 2 events in a year
- Collaboration with other departments for 1 events in a year
- Events: Expert lectures, Project/Thesis supervision/ subject teaching etc.

10 marks
09 marks
08 marks
06 marks
04 marks
02 marks

9. Faculty mentoring/Faculty advisor system for class of students

Assessment rubrics

- Faculty mentoring/faculty adviser are available to admitted students >95%
- Faculty mentoring/faculty adviser are available to admitted students >86 and <95%
- Faculty mentoring/faculty adviser are available to admitted students >81 and <86%
- Faculty mentoring/faculty adviser are available to admitted students >71 and <80%
- Faculty mentoring/faculty adviser are available to admitted students >61 and <70%
- Faculty mentoring/faculty adviser are available to admitted students >51 and <60%

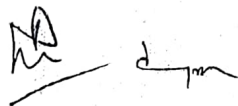
10 marks
09 marks
08 marks
06 marks
04 marks
02 marks

10. Monitoring and continuous evaluation of the project work assigned to the students (mechanism)

Assessment rubrics

- Number of continuous evaluations of project work > 3
- Number of continuous evaluations of project work = 3
- Number of continuous evaluations of project work = 2
- Number of continuous evaluations of project work = 1
- Number of continuous evaluations of project work = 0

10 marks
08 marks
06 marks
04 marks
02 marks



A.4 Doctoral (Ph.D.) Programmes

1. Intake of Ph.D. Students

Assessment rubrics

Number of students admitted is 80-100% of number allocated in seat matrix in all categories	10 marks
Number of students admitted is 60-79% of number allocated in seat matrix in all categories	08 marks
Number of students admitted is 40-59% of number allocated in seat matrix in all categories	06 marks
Number of students admitted is 20-39% of number allocated in seat matrix in all categories	04 marks
Number of students admitted is <20% of number allocated in seat matrix in all categories	02 marks

2. Admission Process

Assessment rubrics

All guidelines fulfilled and students are GATE/ NET qualified and Interviewed.	10 marks
All guidelines fulfilled and students are SET qualified and Interviewed	08 marks
All guidelines fulfilled and students are SET qualified	06 marks
Minor deviations from guide lines fulfilled and students are SET qualified	04 marks
Major deviations from guide lines fulfilled and students are SET qualified	02 marks

3. Pre-Ph.D. Courses and Evaluation Process

Assessment rubrics

All admitted candidates complete coursework and seminar in stipulated time.	10 marks
80% of admitted candidates complete coursework and seminar in stipulated time	08 marks
60% of admitted candidates complete coursework and seminar in stipulated time	06 marks
40% of admitted candidates complete coursework and seminar in stipulated time	04 marks
20% of admitted candidates complete coursework and seminar in stipulated time	02 marks

4. Breadth and Depth of Knowledge of Students

Assessment rubrics

91-100% score in qualifying examination and interview	10 marks
86-90% score in qualifying examination and interview	09 marks
80-85% score in qualifying examination and interview	08 marks
70-79% score in qualifying examination and interview	06 marks
60-69% score in qualifying examination and interview	04 marks
50-59% score in qualifying examination and interview	02 marks

5. Seminar/ Presentations and Technical Communication

Assessment rubrics

All students present progress seminar and submit report within stipulated time	10 marks
80% students present progress seminar and submit report within stipulated time	8 marks
60% students present progress seminar and submit report within stipulated time	6 marks
40% students present progress seminar and submit report within stipulated time	4 marks
20% students present progress seminar and submit report within stipulated time	2 marks

6. Research Facilities available in the Department

Assessment rubrics

Comparable with institute of national eminence	10 marks
Comparable with institute of regional eminence	8 marks
Comparable with peer departments within Institute	6 marks
Somewhat less than peer departments within Institute	4 marks
Significantly less than peer departments within Institute	2 marks

7. Average Number of Research Students/Faculty

Assessment rubrics

Average number of Research Students/Faculty 8	10 marks
Average number of Research Students/Faculty 6	8 marks
Average number of Research Students/Faculty 4	6 marks
Average number of Research Students/Faculty 3	4 marks
Average Number of Research Students/Faculty 2	2 marks

8. Average Number of Research Papers of Ph. D Students (Indexed Journals)

Assessment rubrics

Average number of Research Papers of Ph.D. Students ≥ 5	10 marks
Average number of Research Papers of Ph. D Students 4	8 marks
Average number of Research Papers of Ph. D Students 3	6 marks
Average number of Research Papers of Ph. D Students 2	4 marks
Average number of Research Papers of Ph. D Students 1	2 marks

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9. Average Duration to Complete Ph.D. (years)

Assessment rubrics

Average duration to complete Ph. D. 3 years	10 marks
Average duration to complete Ph. D. 4 years	8 marks
Average duration to complete Ph. D. 5 years	6 marks
Average duration to complete Ph. D. 6 years	4 marks
Average duration to complete Ph. D. 7 years	2 marks

10. Participation of Research Scholars In Conferences/Workshops

Assessment rubrics

Average number of participations ≥ 9	10 marks
Average number of participations ≥ 7 and < 9	8 marks
Average number of participations ≥ 5 and < 7	6 marks
Average number of participations ≥ 3 and < 5	4 marks
Average number of participations ≥ 1 and < 3	2 marks

B RESEARCH

1. Research Ambience in the Department

Assessment rubrics

- 4 marks for faculty qualification,
- 3 marks for research facilities/ infrastructure
- 3 marks for number of research scholars

91-100% faculty with PhD	6 marks
80-90% faculty with PhD	4 marks
60-80% faculty with PhD	3 marks
40-60% faculty with PhD	2 marks
20-40% faculty with PhD	1 mark
Excellent research facilities/ research infrastructure	3 marks
Adequate research facilities/ research infrastructure	2 marks
Inadequate research facilities/ research infrastructure	1 mark
Large number of research scholars	3 marks
Adequate number of research scholars	2 marks
Less number of research scholars	1 mark

2. Research Awareness among Doctoral Students

Assessment Rubrics

Research awareness among doctoral students by more than 01 conference per year	10 marks
Research awareness among doctoral students by 01 conference per year	09 marks
Research awareness among doctoral students by 01 workshop per year	8 marks
Research awareness among doctoral students by 02 expert lectures per year	6 marks
Research awareness among doctoral students by 01 expert lectures per year	4 marks
Research awareness among doctoral students by offering courses	2 Marks

3. Thrust areas of research in the department

Assessment rubrics

- 4 marks for national relevance,
- 3 marks for regional or local relevance

80-100% thrust areas nationally relevant	4 Marks
60-80% thrust areas nationally relevant	3 Marks
40-60% thrust areas nationally relevant	2 Marks
20-40% thrust areas nationally relevant	1 Marks
70-100% thrust areas regionally relevant	3 Marks
40-70% thrust areas regionally relevant	2 Marks
10-40% thrust areas regionally relevant	1 Marks
70-100% thrust areas locally relevant	3 Marks
40-70% thrust areas locally relevant	2 Marks
10-40% thrust areas locally relevant	1 Marks

4. Quality of Research

Assessment rubrics

- 2 marks for patent, 2 marks for total impact factor, 2 marks for citation per faculty (WoS), 2 marks for citation per faculty (Scopus), 2 marks for citation per faculty (Google Scholar)

Patent granted	2 marks
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Patent published/filed	1 mark
Average impact factor ≥ 2	2 marks
Average impact factor 1-2	1 mark
citation per faculty (WoS) ≥ 200	2 marks
citation per faculty (WoS) 100-200	1 mark
citation per faculty (Scopus) ≥ 200	2 marks
citation per faculty (Scopus) 100-200	1 mark
citation per faculty (Google Scholar) ≥ 300	2 marks
citation per faculty (Google Scholar) 200-300	1 mark

5. Collaborations with other departments (within the institute) and at National, and International levels

Assessment rubrics

Collaboration with other departments for 5 events in a year	10 marks
Collaboration with other departments for 4 events in a year	08 marks
Collaboration with other departments for 3 events in a year	06 marks
Collaboration with other departments for 2 events in a year	04 marks
Collaboration with other departments for 1 events in a year	02 marks

Events: Expert lectures, Project/ Thesis supervision/ subject teaching etc

6. Impact and Quality of Publications

Assessment rubrics

- 2.5 marks for total impact factor, 2.5 marks for citation per faculty (WoS), 2.5 marks for citation per faculty (Scopus), 2.5 marks for citation per faculty (Google Scholar)

Average impact factor ≥ 2	2.5 marks
Average impact factor 1-2	1.5 marks
citation per faculty (WoS) ≥ 20	2.5 marks
citation per faculty (WoS) 10-20	1.5 marks
citation per faculty (Scopus) ≥ 20	2.5 marks
citation per faculty (Scopus) 10-20	1.5 marks
citation per faculty (Google Scholar) ≥ 30	2.5 marks
citation per faculty (Google Scholar) 20-30	1.5 marks

7. Relevance of Research to Knowledge Generation and Social Relevance

Assessment rubrics

- 5 marks for Knowledge Generation, 5 marks for Social Relevance with respect to thrust area

Total publications ≥ 30	5 marks
Total publications 20-30	4 marks
Total publications 10-20	3 marks
Total publications < 10	2 marks
All thrust areas covered	5 marks
No thrust area covered	0 marks

8. Student Exposure for Attending Quality Conferences/Symposia

Assessment rubrics

- 2 marks each for maximum of 10

9. Inter departmental collaborations

Assessment rubrics

- 2 marks each for collaboration for Ph. D. research guidance or for collaboration for sponsored project or for other collaboration

10. Industry/externally funded sponsored research (Numbers and amount)

Assessment rubrics

Project amounting to \geq Rs. 50 lakhs	10 marks
Project amounting to Rs. 40-50 lakhs	9 marks
Project amounting to Rs. 30-40 lakhs	8 marks
Project amounting to Rs. 20-30 lakhs	7 marks
Project amounting to Rs. 10-20 lakhs	6 marks
Project amounting to Rs. 5-10 lakhs	5 marks
Project amounting to $<$ Rs. 5 lakhs	4 marks

C. DEPARTMENTAL INFRASTRUCTURE

1. Adequacy of Classrooms and Multi-Media Facility

Assessment rubrics

Availability of classes conducted in classrooms at department >75%	6 marks
Availability of classes conducted in classrooms at department >50% and <75%	4 marks
Availability of classes conducted in classrooms at department >25% and <50%	2 marks
Availability of Multimedia facility in classrooms >75%	1 mark
Availability of Multimedia facility in classrooms >50% and >75%	4 marks
Availability of Multimedia facility in classrooms >25% and >50%	3 marks
Availability of Multimedia facility in classrooms < 25%	2 marks
	1 mark

2. Availability of Laboratories in the Department of Chemical Engineering

Assessment rubrics

Laboratory space available/Laboratory space required to accommodate students' group	2 marks
Equipment availability for routine classes	2 marks
Equipment available for research purpose	2 marks
Shortage of laboratories	2 mark
Sizes of research labs	1 mark
Space for pilot plant	1 mark

3. Availability of Conference/Seminar Room, etc

Assessment rubrics

Conference room availability (exclusive) at department	3 marks
Seminar Hall (exclusive) at department	3 marks
Capacity of the conference/ seminar halls >250 person	4 marks
Capacity of the conference/ seminar halls >100 and < 250 persons	3 marks
Capacity of the conference/ seminar halls <100 person	2 marks

4. Availability of Seating Space for Faculty and Research Students

Assessment rubrics

Adequate number of faculty rooms available (as per designation/ outside the labs)	4 marks
Adequate sizes of faculty rooms	3 marks
Adequate space available for research students	3 marks

5. Availability of Internet Services in Research Labs and Classrooms

Assessment rubrics

Availability of wired LAN connections	2 marks
Adequate Internet speed	3 marks
Availability of wired LAN connections	2 marks
Adequate Wi-Fi signal quality	3 marks

6. Departmental Library and E-Resources

Assessment rubrics

Availability of Books and e-resources with the department	5 marks
Sufficiency of Computer and internet facility for access to e-resources	3 marks
Adequate seating capacity of department library	2 marks

7. Computing Facilities and Software

Assessment rubrics

Adequate availability of software	5 marks
Adequate number and configuration of computers	3 marks
Adequate lab space and allied services availability	2 marks

8. Adequacy of Offices and Furnishing for Faculty

Assessment rubrics

Adequate number of faculty rooms available (as per designation/ outside the labs)	2 marks
Sizes of faculty rooms	3 marks
Furnishing of the room	5 marks

9. Faculty- Student Ratio

Assessment rubrics

Faculty student ratio $\leq 1:15$	10 marks
Faculty student ratio $> 1:15$ and $< 1:20$	8 marks
Faculty student ratio $> 1:20$ and $< 1:25$	6 marks

10. Support Staff (Technical/Administrative) Adequacy

Assessment rubrics

Adequate technical staff / lab > 1	5 marks
Adequate technical staff / lab = 1	4 marks
Adequate technical staff / lab < 1	3 marks
Adequate Technical Staff on regular basis	2 marks
Adequate Technical Staff on regular basis	3 marks

D. OUTCOMES

1. Placement

(i) ICD students (ii) UG students (iii) PG students (iv) Ph. D. students

Assessment rubrics

Placement %age/higher studies for ICD $> 80\%$	2 marks
Placement %age/higher studies for ICD $> 50\%$ and $< 80\%$	1.5 marks
Placement %age/higher studies for ICD $\geq 30\%$ and $< 50\%$	1 mark
Placement %age/higher studies for ICD $< 30\%$	0.5 mark
Placement %age/higher studies for UG $> 80\%$	4 marks
Placement %age/higher studies for UG $> 50\%$ and $< 80\%$	3 marks
Placement %age/higher studies for UG $\geq 30\%$ and $< 50\%$	2 marks
Placement %age/higher studies for UG $< 30\%$	1 marks
Placement %age/higher studies for PG $> 80\%$	2 marks
Placement %age/higher studies for PG $> 50\%$ and $< 80\%$	1.5 marks
Placement %age/higher studies for PG $\geq 30\%$ and $< 50\%$	1 mark
Placement %age/higher studies for PG $< 30\%$	0.5 mark
Placement %age/higher studies for Ph.D. $> 80\%$	2 marks
Placement %age/higher studies for Ph.D. $> 50\%$ and $< 80\%$	1.5 marks
Placement %age/higher studies for Ph.D. $\geq 30\%$ and $< 50\%$	1 mark
Placement %age/higher studies for Ph.D. $\geq 1\%$ and $< 30\%$	0.5 mark

2. Average Number of Ph. Ds awarded per year

Assessment rubrics

Number of Ph.D. in an academic year = 3	07 Marks
Number of Ph.D. in an academic year = 2	05 marks
Number of Ph.D. in an academic year = 1	03 marks
Number of Ph.D. submitted in an academic year ≥ 2	04 marks
Number of Ph.D. submitted in a academic year = 1	02 marks
(Limited to maximum 10 marks)	

3. Publications per Faculty in Indexed Journals/Year (Average of last three years)

Assessment rubrics

Average Number of publications/faculty in last academic year ≥ 2	10 Marks
Average Number of publications/faculty in last academic year ≥ 1.5 and < 2	08 Marks
Average Number of publications/faculty in last academic year ≥ 1 and < 1.5	06 Marks
Average Number of publications/faculty in last academic year ≥ 0.5 and < 1	04 Marks
Average Number of publications/faculty in last academic year ≥ 0.1 and < 0.5	02 Marks

4. Average Citations per Faculty/Year (Last-Three Years) (Web of Science/Scopus)

Academic Year (AY)	2019-20	2020-21	2021-22
Total Number of publications (Scopus)			
Average number of citation /faculty (Scopus)			
Average last three year/faculty			

Assessment rubrics

Average Number of citations/faculty in last academic year ≥ 25	10 Marks
Average Number of citations/faculty in last academic year ≥ 20 and < 25	08 Marks
Average Number of citations/faculty in last academic year ≥ 15 and < 20	06 Marks
Average Number of citations/faculty in last academic year ≥ 10 and < 15	04 Marks
Average Number of citations/faculty in last academic year ≥ 5 and < 10	02 Marks

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5. Recognitions; Awards (National/International) to Faculty/Students

Assessment rubrics

Total number of awards in an academic year ≥ 5	10 Marks
Total number of awards in an academic year ≥ 4 and < 5	08 Marks
Total number of awards in an academic year ≥ 3 and < 4	06 Marks
Total number of awards in an academic year ≥ 2 and < 3	04 Marks
Total number of awards in an academic year ≥ 1 and < 2	02 Marks

6. Consultancy and Externally Funded Projects

Assessment rubrics

Project amounting to \geq INR 50 lakhs	10 marks
Project amounting to INR 40-50 lakhs	9 marks
Project amounting to INR 30-40 lakhs	8 marks
Project amounting to INR 20-30 lakhs	7 marks
Project amounting to INR 10-20 lakhs	6 marks
Project amounting to INR 5-10 lakhs	5 marks
Project amounting to $<$ INR 5 lakhs	4 marks

7. Number of Ph.D. graduates who took Academics as Career (Last 5 Years)

Assessment rubrics

Number of students took Academics as Career ≥ 8	10 Marks
Number of students took Academics as Career ≥ 6	09 Marks
Number of students took Academics as Career ≥ 4 and < 5	08 Marks
Number of students took Academics as Career ≥ 3 and < 4	06 Marks
Number of students took Academics as Career ≥ 2 and < 3	04 Marks
Number of students took Academics as Career = 1	02 Marks

8. Students offered for higher studies

Assessment rubrics

% of students opted for higher studies in a academic year ≥ 20	10 Marks
% of students opted for higher studies in a academic year ≥ 15 and < 20	08 Marks
% of students opted for higher studies in a academic year ≥ 10 and < 15	06 Marks
% of students opted for higher studies in a academic year ≥ 5 and < 10	04 Marks
% of students opted for higher studies in a academic year ≥ 0.1 and < 5	02 marks

9. Number of qualified students NET/GATE/CAT etc

Assessment rubrics

% of students qualified GATE in a academic year ≥ 20	10 Marks
% of students qualified GATE in a academic year ≥ 15 and < 20	08 Marks
% of students qualified GATE in a academic year ≥ 10 and < 15	06 Marks
% of students qualified GATE in an academic year ≥ 5 and < 10	04 Marks
% of students qualified GATE in an academic year ≥ 0.1 and < 5	02 marks

10. Entrepreneurship

Assessment rubrics

% of students opted for entrepreneurship in an academic year ≥ 12	10 Marks
% of students opted for entrepreneurship in an academic year ≥ 09	09 Marks
% of students opted for entrepreneurship in an academic year ≥ 7	08 Marks
% of students opted for entrepreneurship in an academic year ≥ 5	06 Marks
% of students opted for entrepreneurship in an academic year ≥ 3 and < 5	04 Marks
% of students opted for entrepreneurship in an academic year ≥ 0.1 and < 3	02 Marks