INDIAN INSTITUE OF TECHNOLOGY, ROORKEE

DEPARTMENTAL REVIEW TEMPLATE

- 1. Name of Department/Center: Center of Excellence in Fransportation System
- 2. Reviewers:

1) Dr. L. R. Kadiyali (2) Dr. S. Gangopadhyay

3.	Date of Review:	29-4-2014
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GRID FOR ASSESSMENT

NOTE:

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

I. **ACADEMICS**

I.1	Undergraduate	Score
1,	Curriculum i. Curricular Structure ii. Course Syllabi iii. Flexibility	6
2.	Formal Academic Load on Students i. Teaching ii. Laboratory/Practical iii. Projects(minor/major)	
3.	Evaluation Process i. Continuing Evaluation ii. Mid-term Evaluation iii. End-term Evaluation	

4.	Academic Ambience
5.	Opportunity for Peer-Based Learning
6.	Opportunity for Further Learning(Breadth and Depth)
	i. Elective Courses Specialization
	ii. Minor with Major Discipline
	iii. Honors Programme in Major Discipline
7.:	E-Assisted Learning
	i. Availability of Library Resources and Major Search Engines
	(like Scopus, Web of Science)
	ii. Multi-Media Assisted Teaching
8.	In -Curriculum Research/Exploration Opportunity to Students
9.	Technical Societies/ Colloquium for Students
	i. Departmental Society
	ii. Student Chapter(s) of Professional Societies
10.	Faculty –Student Interaction
11.	Faculty Mentoring of Students
12.	Faculty Advisor System for Students/Class of Students
13.	Self Study Courses for Student
14.	Effective Teaching Mechanism for Enhanced Number of Students in
	Various Classes
15.	Effectiveness of Assisted Learning:
	Tutorial System for B.Tech Students/ Seminars

I.2	Graduate Programmes (Masters) '	Score
1,	Curriculum	
	i. Curricular Structure	
	ii. Course Syllabi	
12	iii. Flexibility	9
2.	Formal Academic Load on Students	
	i. Teaching	9
	ii. Laboratory/Practical	9
	iii. Seminar/Dissertation	9
3.	Evaluation Process	
	i. Continuing Evaluation	9 00
	ii. Mid-Term Evaluation	9
	iii. End-Term Evaluation	9
4.	Academic Ambience	10
5.	Opportunity for Peer-Based Learning	9
6.	Opportunity for further Learning(Breadth and Depth)	
	Elective Courses (Specialization Electives)	9
7.	E-Assisted Learning	
	i. Availability of Library Resources and Major Search Engines (like Scopus, Web of Science)	9

	ii. Multi-Media Assisted Teaching	19
8.	In -Curriculum Research/Exploration Opportunity to Students	9
9,	Technical Societies/ Colloquium for Students	
	i. Departmental Society	8
	ii. Student Chapter(s) of Professional Societies	8
10.	Faculty –Student Interaction	9
11.	Faculty Mentoring/Supervising of Students	9
12.	Faculty Advisor System for Students/Class of Students	9
13.	Effectiveness of Assisted Learning:	
	Home Assignments/Seminars/Presentations	1 9

I.3	Doctoral (Ph.D) Programmes	Score
1.	Pre-Ph.D Courses and Evaluation Process	9
2.	Comprehensive Courses Examination	9
3.	Breadth and Depth of Knowledge of Students	g
4.	Seminar/ Presentations and Technical Communication	9
5.	Average No. of Research Students/Faculty	q
6.	Average No. of Research Papers of Ph.D Students	G
7.	Average Duration to Complete Ph.D (years)	9

II. RESEARCH

		Score
1.	Research Ambience in the Department	10
2.	Research Awareness among Doctoral Students	10
3.	Competence Level of Doctoral Students for Research	9
4.	Quality of Research	9
5.	Quality of Publications	9
6.	Impact of Publications	8
7.	Relevance of Research to Knowledge Generation	9
8.	Societal Relevance of Research	9
9.	Exposure of Researchers to the International State of Art	8
10.	Student Exposure to Attending Quality Conferences/Symposia	9
11.	Growth in Ph.D Programme	Q Q
12.	Quality of Research Infrastructure	9
13.	Utilization of Existing Research Infrastructure	g
14.	Department Initiative on Faculty Hiring	8
15.	Breadth and Depth of Research in the Department	9
16.	Research Intensity of Faculty Members	9

FuturisticAreas For Hiring Faculty Members
- Intend Worter Transport - - Airport Planip & Design
Research Areas for Improvement
Road Safetis, Diriver Behavior & Psychology
Comments (not more than 100 words for each given below) Strength:
Weakness:
Suggestions for improvement:
The activities being carried are affreciated, Lomenia it requires bit mere toxcessed in the next 1-2 years.

III. Departmental Infrastructure

1.	Adequacy of Class Decree 114 1/14 1/17	Score
	Adequacy of Class Rooms and Multi-Media Facility	10
2.	Availability of Laboratories	10
3,	Availability of Conference/Seminar Room, etc.	
4.	Availability of Seating Space for Research Students	10
5.	Assilability of Scaring Space for Research Students	10
	Availability of Internet Services in Research Labs and Class Rooms	10
6.	Departmental Library and E-Resources	15
7.	Computing Facilities and Software	- (<u>C</u>
8.	Adequacy of Offices and Furnishing for Faculty	10
9.	Faculty- Student Ratio	
10.	Support Staff (Technical/Administrative) Adequacy	

Comments (no	ot more than 100 words for each given below)
Strength:	
Weakness:	
, , cardioss,	Students-faculty ratio.
Suggestions fo	or improvement:
	Improved ratio on faculty to students
	negd, Atleast 6 to 7 faculty (regular)
10	Shall be required in 1-2 y-ears.

IV. Admissions of Ph.D Students

		Score
1.	Intake of Ph.D Students	9
2.	Admission Process	9
Sugge	stions:	2.
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V. Outcomes

		Score
1.	Placements	
	i. Placement of B.Tech/IDD Students	
	ii. Placement of Masters Student	
	iii. Placement of Ph.D Students	10
2.	Average No. of Ph.D.s Awarded per Year	10
3.	Publications per Faculty in ISI Indexed Journals/Year	9
4.	Average Citations per Faculty/Year (Last-Three Years)	
	(Web of Science/Scopus)	9
5.	Recognitions; Awards(National/International) to Faculty/Students	9
6.	Consultancy and Projects	0
7.	No. of Ph.D. graduates who took Academics as Career(Based on Data	
i	of Last 5 Years)	1 9

Comments and Suggestions for improvement:

Date:

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(Signature of the Reviewer)

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