

<b>INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE</b> <b>DEPARTMENTAL REVIEW TEMPLATE</b>
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**1. Name of Department/Center : Centre of Excellence in Disaster Mitigation & Management**

**2. Reviewers :**

- a. Lt. Gen (Retd) M.C. Badhani, Chairman State Disaster Management Advisory Committee, Dehradun
- b. Dr. V.P. Dimri, CSIR Distinguished Scientist, Hyderabad – 500 007
- c. Prof. O.P. Mishra, Formerly Director, SAARC Disaster Management Centre, New Delhi

**3. Date of Review: 12 May 2014**

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**GRID FOR ASSESSMENT**

**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/ Center and your suggestions for future growth.
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*Mishra*  
*12/05/14*

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### I. ACADEMICS

I.1	Undergraduate	Score
1.	Curriculum i. Curricular Structure ii. Course Syllabi iii. Flexibility	
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	

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## II. RESEARCH

		Score
1.	Research Ambience in the Department	10
2.	Research Awareness among Doctoral Students	09
3.	Competence Level of Doctoral Students for Research	09
4.	Quality of Research	09
5.	Quality of Publications	09
6.	Impact of Publications	08
7.	Relevance of Research to Knowledge Generation	09
8.	Societal Relevance of Research	09
9.	Exposure of Researchers to the International State of Art	09
10.	Student Exposure to Attending Quality Conferences/Symposia	09
11.	Growth in Ph.D Programme	09
12.	Quality of Research Infrastructure	10
13.	Utilization of Existing Research Infrastructure	10
14.	Department Initiative on Faculty Hiring	10
15.	Breadth and Depth of Research in the Department	10
16.	Research Intensity of Faculty Members	10
<b>Futuristic Areas For Hiring Faculty Members</b> <ul style="list-style-type: none"> <li>• Nuclear, Biological &amp; Chemical (NBC)</li> <li>• Incident command system (ICS); Response and Recovery (R&amp;R)</li> </ul>		
<b>Research Areas for Improvement</b>		
<b>Comments (not more than 100 words for each given below)</b>		
<b>Strength:</b> <ul style="list-style-type: none"> <li>• Competent faculty with excellent learning environment</li> <li>• Outstanding Research facilities</li> </ul>		
<b>Weakness:</b> .unavailability of experts/faculty/visiting faculty in some of fields, such as NBC, ICS & R&R		
<b>Suggestions for improvement:</b> <ul style="list-style-type: none"> <li>• Incorporation of greater practicality in the research is needed for the better societal impacts.</li> </ul>		

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### III. Departmental Infrastructure

	Score
1 Adequacy of Class Rooms and Multi-Media Facility	10
2 Availability of Laboratories	09
3 Availability of Conference/Seminar Room, etc.	09
4 Availability of Seating Space for Research Students	10
5 Availability of Internet Services in Research Labs and Class Rooms	10
6 Departmental Library and E-Resources	09
7 Computing Facilities and Software	09
8 Adequacy of Offices and Furnishing for Faculty	09
9 Faculty- Student Ratio	05
1 Support Staff (Technical/Administrative) Adequacy	03

Comments (not more than 100 words for each given below)

**Strength:**

Very good departmental Infrastructure related to research facilities and studies for M.Tech and Ph.D levels.

**Weakness:**

• Permanent teaching faculties exclusively for COEDMM-IIT-Roorkee are completely unavailable, which question the sustainability of the Centre. Currently, the Centre solely depends on the adjunct professors of the other departments of IIT-Roorkee, which is not good for the existence of the COEDMM.

**Suggestions for improvement:**

- Technical and Administrative Staffs are not available at all, which hinders the smooth functioning of COEDMM.
- Permanent teaching faculties exclusively for COEDMM of at least six (06) at different levels need to be recruited for the sustainability of COEDMM by maintaining the "Excellency" of the Centre in the field of Disaster management at IIT-Roorkee as well as in India.
- Technical and administrative Staffs of about four (04) are needed

to be recruited for smooth functioning as well as for the sustainability of the Centre; COEDMM.

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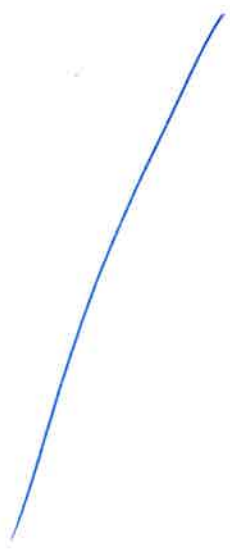
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### IV. Admissions of Ph.D Students

		Score
1.	Intake of Ph.D Students	10
2.	Admission Process	10

**Suggestions:**

IIT-Roorkee needs to provide continuity.  
Support to COEDMM in this regard



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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	Yet to Start
2.	Average No. of Ph.D.s Awarded per Year	08
3.	Publications per Faculty in ISI Indexed Journals/Year	09
4.	Average Citations per Faculty/Year (Last-Three Years) (Web of Science/Scopus)	09
5.	Recognitions; Awards(National/International) to Faculty/Students	09
6.	Consultancy and Projects	08
7.	No. of Ph.D. graduates who took Academics as Career (Based on Data of Last 5 Years)	

### Comments and Suggestions for improvement:

- Director, IIT-Roorkee should write letters to different Indian and overseas institutions by highlighting the course-curricula and merits of syllabus of M.Tech and Ph.D students in the Disaster Management for 100% placement of master and Ph.D students, who are about to pass out from COEDMM.
- Letters may be addressed to NDMA, India; SDMAs of different States; Ministry of Home Affairs, Govt. of India; NIDM; UPSC; State PSC; UNISDR; UNDP; UNOCHA; IFRC; SDMC; ADPC; ADRC; AIT; and several institutions of country as well as to INGOs and NGOs for job prospectus of M-Tech and Ph.D students.

Date: 12 May 14

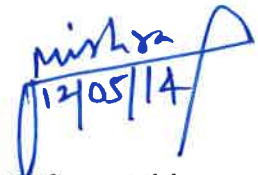


Lt. Gen (Retd) M.C. Badhani,  
Chairman State Disaster  
Management Advisory  
Committee, Dehradun

(Signature of the Reviewers)



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NGRI, Hyderabad - 500 002



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Formerly Director, SAARC  
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