INDIAN INSTITUE OF TECHNOLOGY, ROORKEE

DEPARTMENTAL REVIEW TEMPLATE

	Name of Department/Center :	Doff.	Bio	technology
1.	Name of Department/Center:	J. Abi.		The share

2. Reviewers:

Alok BHATTACHARYA, Jawaharlal Nehru Unio. N Delhi EVR Chary. TIFR Mother bumbar a D Yadar Number

3. Date of Review: April 14, 2014

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.

ACADEMICS I.

		Score
I.1	Undergraduate	
1.	Curriculum i. Curricular Structure ii. Course Syllabi iii. Flexibility	5
2.	Formal Academic Load on Students i. Teaching ii. Laboratory/Practical	6 5 5
3.	iii. Projects(minor/major) Evaluation Process i. Continuing Evaluation ii. Mid-term Evaluation	5 5 5
	iii. End-term Evaluation	

h. V. N. Lany

	-
Academic Ambience	5
Opportunity for Peer-Based Learning	_5
Opportunity for Further Learning(Breadth and Depth)	6
i. Elective Courses Specialization	6
ii. Minor with Major Discipline	
iii. Honors Programme in Major Discipline	6
E-Assisted Learning i. Availability of Library Resources and Major Search Engines	5
	5
ii. Multi-Media Assisted Teaching	5
In –Curriculum Research/Exploration Opportunity to Students	3
	5
i. Departmental Society	
ii. Student Chapter(s) of Professional Societies	5
Faculty –Student Interaction	3
Faculty Mentoring of Students	4
Faculty Advisor System for Students/Class of Students	4
Self Study Courses for Student	5
Effective Teaching Mechanism for Enhanced Number of Students in	6
Various Classes	
	5
Tutorial System for B.Tech Students/ Seminars	
	Opportunity for Peer-Based Learning Opportunity for Further Learning(Breadth and Depth) i. Elective Courses Specialization ii. Minor with Major Discipline iii. Honors Programme in Major Discipline E-Assisted Learning i. Availability of Library Resources and Major Search Engines (like Scopus, Web of Science) ii. Multi-Media Assisted Teaching In -Curriculum Research/Exploration Opportunity to Students Technical Societies/ Colloquium for Students i. Departmental Society ii. Student Chapter(s) of Professional Societies Faculty -Student Interaction Faculty Mentoring of Students Faculty Advisor System for Students/Class of Students Self Study Courses for Student Effective Teaching Mechanism for Enhanced Number of Students in Various Classes Effectiveness of Assisted Learning:

I.2	Graduate Programmes (Masters)	Score
1.	Curriculum	
	i. Curricular Structure	6
	ii. Course Syllabi	6
	iii. Flexibility	5
2.	Formal Academic Load on Students	6
	i. Teaching	6
	ii. Laboratory/Practical	6
	iii. Seminar/Dissertation	6
3.	Evaluation Process	5
	i. Continuing Evaluation	2
	ii. Mid-Term Evaluation	555
	iii. End-Term Evaluation	5
4.	Academic Ambience	111
5.	Opportunity for Peer-Based Learning	
6.	Opportunity for further Learning(Breadth and Depth)	15
	Elective Courses (Specialization Electives)	
7.	E-Assisted Learning	5
	i. Availability of Library Resources and Major Search Engines (like Scopus, Web of Science)	

lev. K. Lharry Booton

FuturisticAreas For Hiring Faculty Members Systems Beology, Process system engineering. Genomics and Computational Genomics, Computational Pluid dynamics Research Areas for Improvement Structural Biology molecular Biology, Scale-up, metabolic Engineery Comments (not more than 100 words for each given below) Strength: Large number of foreign trained young faculty Good infrastructure as far as high-end state-of-the art sophisticated instruments. Weakness: student - Faculty interaction, lack of simple basic facilities in each laboratories. Lack of technical support. Research problems needs to be contemporary. No regular internal or external seminars. Lack of inter No regular internal or external seminars. Lack of intergroup interaction within the department and with other despartments

Suggestions for improvement: Lack of interactions with Industry, Lack of maintenance
grant.

One time Rs 10/- lakks per faculty for basic infrastructure and
instruments about which there is a discontent among the students of facility.

Appointment of competant technical staff to operate and maintain oil instruments
atleast one person per two laboratories. All population instruments must be
under AMC. The expenses for AMC should be borne by the Institute whenever there
wisher the maintenance of minor easily ment in the Laboratory. Research scholars
for the maintenance of minor easily ment in the Laboratory. Research scholars

a bebaite, describing the fach faculty research interests and organg
research projects with relevant references to their recent publications.

Fach faculty should define their potential projects with abstract(8) for MHRD
funded projects for the benefit of research scholars. Separate course structure

THI. Departmental Infrastructure mechanism to get faculty under INSPIRE program

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

K. V. K. sharry Congod

Comments (not more	than 100 words for each given below)
	7. High end facilitiers 2. New Cevilding and new Cales
Weakness:	1. Small equipments needed dang to dang 2. Routine maintenaire send report 3. Technical support procus development vement:
Suggestions for impro	vement: Please see ahoure (seetion II)

IV. Admissions of Ph.D Students

		Score
1,	Intake of Ph.D Students	6
2.	Admission Process	3
Sugge	needs revamping the admis please see section IT for	defeils.

Oprjad