Harcourt Butler Technical University Kanpur - 208002 (U.P.) INDIA

DEPARTMENTAL REVIEW (2018-19)

SUMMARY SHEET

1. Name of the Department

Physics

2. Name of Reviewers

Designation & Address

i. Dr. Tapolikata Lahin ii. Pwj. & Dean (Acad. 2 Res.), 1117-Alchaba) iii. 1117-Allahatad, Prnyagraj

3. Date of Meeting

8 Nov 2019

S. No	J.	Score Summary		
			Max. Score	Score
Α.	Academic	A.1. UG Program	100	79/8
		A.2. PG Program	100	- 18
		A.3. Doctoral Program	100	anl
		A.4. Industry – Institute Interaction	60	89/10
		A.5. Laboratory Development	50	
•	Research		100	38/40
	Outreach Activities		80	60/70
	Departmental Infrastructure	-		36/40
+	Outcomes		100	55/6
	To	otal Score	70	27/30
	•	our ocola	760	384/4



Strengths

1. Teaching and lab peaching

2. Research & Publications

3. Achievement of above marking

4. cartivities underload-constant

1. lack of defeatments our course

3. Shortage of facility membry

4. Considered (may be Engineering)

4. considered.

2. Number of healthy mentes should be increased.

2. Considered.

2. Number of healthy mentes should be considered.

2. Considered.

2. Number of healthy mentes should be increased.

3. Gift of minitar enest should be organized.

Note: 1. Marks mentioned above is 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.

Name & Signature of HOD

TAPOBRATA LAHIRI

Name & Signature of Expert

HARCOURT BUTLER TECHNICAL UNIVERSITY KANPUR-208002 (UP) INDIA

DEPARTMENTAL REVIEW (2018-19) PROFORMA OF ASSESSMENT

Name of Department: Physicy

Reviewer (Name, Designation & Address): Dr. Tapobouta Lahin, Proj. & Date of Review: 08/11/16 Proj. & Read. & Res.), 1117-Allel

Date of Review: 08/11/19

NOTE:

- 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	UG Program
1.	Curriculum (Structure, Course Syllabi, Flexibility)
2.	Formal Academic Load on Students [Teaching, Laboratory / Practical, Projects(minor / major)]
3.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)
4.	Academic Ambience
5.	 E-Assisted Learning i. Availability of Library Resources and Major Search Engines (like Scopus, Web of Science)
6.	ii. Multi-Media Assisted Teaching Technical Societies / Colloquium for Students i. Departmental Society ii. Student Chapter(s) of Professional Societies
7.	ii. Student Chapter(s) of Professional Societies Faculty -Student Interaction
8.	Tour / Training / Industrial visits / Internship opportunities
9.	Effectiveness of Assisted Learning, Tutorial System for B. Tech Students / Seminars
10.	Faculty Mentoring / Faculty Advisor System for Students / Class of Students



A.2	PG Program (Separate for each program)
1.	Curriculum (Structure, Course Syllabi, Flexibility)
2.	Formal Academic Load on Students [Teaching, Laboratory / Practical, Projects(minor / major)]
3.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)
4.	Academic Ambience
 5. 6. 	 E-Assisted Learning i. Availability of Library Resources and Major Search Engines (like Scopus, Web of Science) ii. Multi-Media Assisted Teaching Technical Societies / Colloquium for Students
7.	i. Departmental Society ii. Student Chapter(s) of Professional Societies Faculty -Student Interaction
8.	
	Tour / Training / Industrial visits / Internship opportunities
9.	Effectiveness of Assisted Learning, Tutorial System for B. Tech Students / Seminars
10.	Faculty Mentoring / Faculty Advisor System for Students / Class of Students

A.3	Doctoral (Ph. D) Programmes	
1.	Intake of Ph. D Students	
2.	Admission Process	
3.	Pre-Ph. D Courses and Evaluation Process	
4.	Breadth and Depth of Knowledge of Students	
5.	Presentations and Technical Communication	
6.	Research Facilities available in the Department	
7.	Average No. of Research Students / Faculty	
8.	Average No. of Research Papers of Ph. D Students (Indexed/SCI Journals)	
9.	Average duration to complete Ph. D (years)	
10.	Participation of Research Scholars in Conferences / Workshops	

A.4	Industry – Institute Interaction
1.	Involvement of industry expert in designing curriculum.
2.	Organizing expert lecture from industry.
3.	Involvement of industry expert in PG projects.
4.	Participation of students in visits of industry, industrial tours and training, internship programs.
5.	Interaction of faculty with industries in terms of visit, lab development.
6.	Industrial research projects

1

A.5	Laboratory Development including Up gradation	٦.	
1.	New lab developed within last year.	N.A	
2.	Development of infrastructure in existing labs.	1∶	
3.	Up Gradation of existing equipment's including replacement.	10	1
4.	Development of manuals for experiments in existing labs.	9 (
5.	Development of new experiments in labs.	9	•
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B. RESEARCH

Research Ambience in the Department Research Awareness among Doctoral Students Quality of Research	
Quality of Research	18
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Quality of Publications	
Impact of Publications	8
Relevance of Research to Knowledge Generation and Social Relevance	N
Student Exposure to Attending Quality Conferences / Symposia	10
Research Intensity of Faculty Members	10
Industry / externally funded sponsored research	9
	Impact of Publications Relevance of Research to Knowledge Generation and Social Relevance Student Exposure to Attending Quality Conferences / Symposia Research Intensity of Faculty Members Inter departmental collaborations

C. OUTREACH ACTIVITIES

	Visit to other institutes of higher learning like IITs, IISc, SPA, IISER, etc. by faculty.	10
2.	Delivering of talk / lecture in HBTU apart from regular courses.	
3.	Expert lectures in other institutes.	NA/
4.	Visits to other institutes for academic activities like accreditation, academic audit, BOS etc.	9
5.	Contribution to Professional Societies.	
6.	Editorial responsibilities / reviewers of SCI Journals.	NIA
	Organization of Seminar, Workshops, Symposia.	NA
	Organization of GIAN Courses.	N.A



D. Departmental Infrastructure

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

E. Outcomes

1	Placements	7
	i. Placement of B. Tech Students	
	ii. Placement of Master's Students	N.A
	iii. Placement of Ph. D Students	
2	Average No. of Ph.Ds Awarded per Year (Average of last three years)	-
3	Publications per Faculty in Indexed Journals/Year (Average of last three years)	1: 121
4 .	Average Citations per Faculty / Year (Last-Three Years) (Web of Science / Scopus)	10 (30)
5	Recognitions; Awards(National / International) to Faculty / Students	NA C
6	Consultancy and Externally Funded Projects	MA
7	No. of Ph. D. graduates who took Academics as Career (Last 5 Years)	A'A 10

Suggested Research Areas for Improvement Comments (not more than 100 words for each given below) i. Strength: 1) Teaching and laboratory enferiments/preactice (including updating of amignments in yearly basis) tox caloring to the overall engineering students. 2) Research and publications to the careful of individual faculty members 3) Achievement with above-mentioned activities in this spike 7 crunch in number of faculty members

ii. Weakness:
1) Lack of defeatmental course at UG & PG levely which is needed to retain good handly menting through offering growth opportunity in their own field. 2) Lack of involvement in delivering talk in defeatment organized in-house braining programs/FDP/reminery Conferences/workships
3) Shortage of faulty members
iii.Suggestions for Improvement:
1) Launet of a defautmental course (may be a PGr course in Engineering Physics) may be considered 2) Number of Faulty Membry may be considered to be increased through proper regularization of recersiment process. 3) Taking opportunity of organizing GLAN or similar events may be considered

Signature of the Expert: <

Name & Designation: DR. TAPOBRATA LAHIRI, Prof. L. Dem (Aca).

Res.) - 111T- A Walabas

Address: 111T- A Walabas

Note: Original papers duly signed by the experts are to be kept by the Department for record. Photocopies shall be enclosed with summary sheet.