### HARCOURT BUTLER TECHNICAL UNIVERSITY

Office of the Dean (Continuing Education and Internal Quality Assurance)

Note: This Proformahas been designed by the university to carryout in house Academic Audit of the University Departments.

(Academic Audit is a scientific and systematic method of reviewing the quality of academic process in the institution. It is related to quality assurance and enhancement of quality in academic activities. It is aimed at understanding the existing system; assessing the strengths and weaknesses of the Departments; suggesting methods for improvement and for overcoming the weaknesses and identifying the opportunities for academic reforms)

### PROFORMA OF DEPARTMENTAL ACADEMIC AUDIT

### 1. Name of Department:

### 2. Date of Review:

#### NOTE:

- i. Please rate the following parameters/indicators on a scale of 1-10, with 10 being the highest depending upon availability/non availability of a well-defined mechanism/process of the said indicator/criteria. For some of the criteria, it could be subjective as well, but based on standard norms/guidelines/or rationale of the experts.
- ii. Kindly give your opinion on the strength and weakness of the Department and your suggestions for improvement

### A. ACADEMICS

A.1	Teaching and learning	(A.)
1	Admissions in first year	Score
	Curriculum (Development, Structure, Course Syllabi, Flexibility)	NA
2		8
3	Formal Academic Load on Students (Teaching, Laboratory/Practical, Projects)	8
4	Evaluation Process (Continuing Evaluation, End-Term Evaluation, transparency, redressal mechanism for students)	9.
. 5	Number of faculty members (Sanctioned, Filled, Vacant, On contract against vacant)	6
6	Number of technical staff in labs	
7	E-Assisted Learning	0
	<ul> <li>i. Availability of Library Resources (books, book bank, journals and Major Search Engines (like Scopus, Web of Science)</li> <li>ii. Multi-Media Assisted Teaching (such as Use of ICT, Audio, Video, LCD, LAN, e-learning – resources, OpenEducational Resources</li> </ul>	8
8	Technical Societies for Students	
	i. Departmental Society ii. Student Chapter(s) of Professional Societies	NA

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Educational Tour/Training/Industrial visits/Internship opportunities	NA
Effectiveness of Assisted Learning, Tutorial System, Seminars for B.Tech Students	7
Faculty Mentoring/Faculty Advisor for Students	NA
Number of teaching days in a semester	9
Formal mechanism to obtain feedback from studentsand stakeholders on Curriculum (Such as Student feedback for teaching & Course evaluation etc)	8
Total Score (out of 130)	63
	Faculty Mentoring/Faculty Advisor for Students  Number of teaching days in a semester  Formal mechanism to obtain feedback from studentsand stakeholders on Curriculum (Such as Student feedback for teaching & Course evaluation etc)

A.2	Industry- Institute Interaction	Score
1	Industrial Training as a part of curriculum	NA
2	Involvement of industry expert in designing curriculum.	NA
3	Organizing expert lectures from industry.	NA
4 .	Involvement of industry expert in UG/PG projects (as Joint Supervision)	NA
5	Participation of students in industrial tours and internship programs.	NA
6	Interaction of faculty with industries in terms of visits, lab development.	NA
7	Industrial research projects	NA
	Total Score (out of 70)	N/000

A.3	Laboratory Development	Score
1.	New labs developed in last three year.	子
2.	Development of infrastructure in existing labs.	7
3.	Up Gradation of existing equipment's including replacement.	8
4.	Development of Laboratory manuals of experiments in existing labs.	8
5.	Development of new experiments in existing labs.	8
	Total Score (out of 50)	38

### B. RESEARCH

В	Research	Score
1.	Research Ambience in the Department	8
2.	Quality of Publications	8
3.	Relevance of Research to society	7.
4.	Student Exposure to Attending Quality Conferences/Symposia	NA
5.	Research Intensity of Faculty Members	7.
6.	Inter Departmental Research Collaborations	6
7.	Industry/externally funded sponsored research	7.
-	Total Score (out of 76)	43

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# C. OUTREACH ACTIVITIES

	Outreach activities	
1.	Visit to other institutes and the	Score
	Visit to other institutes of higher learning like IITs, IISc, IISER, etc. by faculty.	0
2.	Delivering Collins	7
	Delivering of talk / lecture in HBTU apart from regular courses.	77
3.	Expert lectures in other institutes.	
<del>-</del>	The restates in other institutes,	7
4.	Visits to other institutes for academic activities like accreditation, academic audit, attending RDCs, BoSetc	7
	Noseic	7
<b>5.</b> .	Contribution to Professional Societies.	04
6.	Editorial	X
<del>.</del>	Editorial responsibilities / reviews of SCI Journals.	Ø.
7.	Organization of Somina W. 1.	8
	Organization of Seminar, Workshops, Symposia, FDP.	9
	Total Score (out of 70)	5

## D. Departmental Infrastructure and Human Resource

1	Adaguage COL D	Score
	Adequacy of Class Rooms and Multi-Media Facility	9
2	Availability of adequate Laboratories	<u>a</u> .
3	Availability of Conference/Seminar Room, etc	8
4	Availability of adequate Seating Space/Offices and furnishings for Facultyand Research Students	9
5	Availability of Internet Services in Research Labs and Class Rooms	Q.
6	Departmental Library	
7	Computing Facilities and Software	9
.8	Computer and internet facilities: (terminals with LAN facilities, hardwares, printers, photocopy machine, UPS, internet-broadband/wi-fietc)	<u>9</u>
9	Faculty- Student Ratio	1
10	Support Staff (Technical/Administrative) Adequacy	NA O
	Total Score (out of 100)	HI
Ē.	Outcomes Outcomes	7

### E. Outcomes

1	Placements of B.TechStudents	Score
		NA
2	Publications per Faculty in Indexed Journals/Year (Average of last three years)	
3	Average Citations per Faculty/Year (Last-Three Years) (Web of Science/Scopus)	6
4	Recognitions; Awards(National/International) to Faculty/Students	6
5	Consultancy and Externally Funded Projects	5
6	No. of B. Tech / M. Tech / PhD graduates to have taken up career in Academics	7
	Total Score (out of 60)	

### **SWOC Analyses**

- Ph.D from well-necognized institutions.
- O Plan to staut new Master's Programme in Physic Dep"
- @ Recent impetus to hime more Ph.D students.

### b) Weakness:

- @ Need for mone faculty
- @ Heed for support staff for habs
- O Adequate fanding for supporting supseach activities

### c) Opportunities:

- @ Reseach colloborations with various institute
- @ Extablishments of new Research Labs
- @ More upseach offortuntes from DST, SERB, CSER
- Supe of collabortion with industry

- a how faculty strength
- @ Lack of interest among students to pursue Science
- @ Lack of good Research infrastructure.

