

Academic Audit (2021-22)

(For Departments offering Engineering and Applied Science Programs)

DELHI TECHNOLOGICAL UNIVERSITY

New Delhi-110042



Department of

(To be filled up by Academic Expert)

Name & Signature of the Auditors:

The day and Date of visit:

Summary

S. No.	Parameters of Evaluation	Max. Marks	Self -Assessment score	Marks Scored
1	Curricular Aspects	150		
2	Teaching Learning and Evaluation	200		
3	Research, Innovation & Extension	250		
4	Infrastructure & Learning Resources	100		
5	Student Support & Progression	100		
6	Governance, Leadership & Management	100		
7	Institutional Values & Best Practices	100		
Total		1000		

Grading System:

Grade	Details	Total Marks scored
A++	Outstanding	880 - 1000
A+	Excellent	816 - 879
A	Good	751 - 815
B++	Average	691 - 750
B+	Acceptable	625 - 690
B	Not Acceptable	Below 625

SWOT Analysis of the Department:

1. Strengths

2. Weaknesses

3. Opportunity

4. Threat

Suggestions based on information:

1. Curricular Aspects (150)

1.1 Curricular Content (115)

S. N.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
1.1.1	Curricula content to provide understanding of concepts of (with sufficient practical exposure) (5 years data)			
	Basic curriculum components (basic science, basic engineering, management & humanities, computer skills, professional ethics, environment and human values,	35		
	Programme core, department elective, open elective)	40		
	Structure of the curriculum (L+T+P)	5		
	Projects/Internships/Self learning practices	10		
1.1.2	Do the curricula take care of slow and fast learners learning simultaneously?	10		
1.1.3	Revision/Upgradation of the curriculum to incorporate <i>appropriate new knowledge systems</i> (based on no. of BoS meeting)			
	Percentage of program where minor syllabus revision was carried out	5		
	Percentage of program where major syllabus revision was carried out	5		
1.1.4	Average percentage of courses having focus on employability/ Entrepreneurship/ skill development	5		
	Total	115		

1.2 Feedback and Corrective Action (35)

S. No.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
1.2.1	Feedback			
	Student Feedback on design and review of Syllabus	4		
	Faculty Feedback on design and review of Syllabus	4		
	Employer's feedback on design and review of Syllabus	4		
	Alumni Feedback on design and review of Syllabus	4		
	Parent's feedback on design and review of Syllabus	4		
1.2.2	Student Feedback at the end of semester (Overall impression reported by students)	10		
1.2.3	Corrective action taken by department for point 1.2.1, 1.2.2	5		
	Total	35		

Any additional comments/feedback/observations/advice which may or may not be based on above points:

2. Teaching - Learning Process and Evaluation (200)

2.1 Student Enrolment and Profile (30)

S. No.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
	Average percentage of students from other states	4		
	Average percentage of students from other countries	4		
	Demand ratio UG/PG Program	8		
	Percentage of female students on roll	4		
	Student to full time teacher ratio	10		
	Total	30		

2.2 Faculty Profile (40)

S. No.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
	Average percentage of full time teachers against sanctioned post	9		
	Average percentage of full time teachers from other states/ countries against sanctioned post	5		
	Average percentage of full time teachers with PhD degree	5		
	Teaching Experience per full time teacher in no. of years	5		
	Percentage of full time teachers who received awards, recognition, fellowship at State/ National/ International Level from Govt./ recognized bodies	4		
	Percentage of teachers using the ICT for effective teaching with LMS	4		
	E-content developed by Faculty for e-PG Pathshala / CEC (UG)/ SWAYAM/ MOOCs platform/ NPTEL/ NMEICT/ Moodle/ any other	4		
	Ratio of Students to mentor for academic and stress related issues	4		
	Total	40		

2.3 Teaching – Learning Process (60)

S. No.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
2.3.1	Theory lectures			
	Average % of lectures conducted	10		
	Percentage of courses for which course file consisting of teaching plan, execution plan etc. available and updated	15		
2.3.2	Practical			
	Average % of practical conducted compared with that minimum required as per curriculum:	10		
	Availability of laboratory manual and its quality	5		
	Maintenance of laboratory equipment and new addition	5		
2.3.3	Theory attendance of students			
	Average % of lectures attended by students	5		
2.3.4	Practical attendance of students			
	Average % of practical attended by students	2		
2.3.5	Home assignments and its assessment.	2		
2.3.6	Efforts taken by Department to improve performance of academically weaker students through remedial classes	2		
2.3.7	Efforts taken by Department to improve overall performance of students including Quality Circle/Courses conducted/ Expert lectures etc.	4		
	Total	60		

2.4 Examination System (40)

S. No.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
2.4.1	Examination Process			
	Transparency in the processes like internal assessment; scrutiny and declaration of result	10		
	Appropriate weight-age for continuous evaluation and end semester examination.	10		
2.4.2	Quality of MSE/ESE Question Papers (Coverage of syllabus, Difficulty level, mapping with CO/PO/PSO) -Question papers audit by the department/ university	20		

	Total	40	
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2.5 Students Performance and Learning Outcomes (30)

S. N.	Sub-parameter	Marks Assigned	Marks Scored
2.5.1	Student Performance in Exam		
	Success rate without backlog in stipulated period (Based on final year result)	8	
	Success rate with backlog in stipulated period	8	
2.5.2	Learning outcome		
	Program Outcomes, Program specific Outcomes and Course Outcomes for all programs offered by the department are stated and displayed on the prominent places including Website, communicated to teachers and students	8	
	Percentage of Programs for which Attainment of Program Outcomes, Program specific Outcomes and Course Outcomes are calculated.	6	
	Total	30	
Any additional comments/feedback/ observations/advice which may or may not be based on above points:			

3. Research, Innovation and Extension (250)

S. N.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
3.1	Promotion of Research & Facilities			
	Average seed money provided to faculty per year for research	5		
	No. of teachers awarded international fellowship for advance study/ research	5		
	No. of JRF/ SRF/ PDF/ RA and other research fellows enrolled in the Department	5		
	Recognition of department from UGC-SAP, CAS, DST-FIST, DBT, ICSSR or any other similar Govt. agency	5		
	Total	20		
3.2	Resource Mobilization for Research			
	Grants for research received from Non-govt. sources such as Industry, International bodies, endowments, Chairs in the institution	5		
	Grants for research received from Govt. sources	10		
	No. of research projects per teacher (funded from outside University)	5		
	Total	20		
3.3	Innovation Eco system			
	No. of award for innovation won by department/ faculty/ student	15		
	No. of Start-ups incubated in DTU/ outside incubators by the department/ faculty/ student	15		
	Total	30		
3.4	Research Publication and Awards			
	No. of patents published/ granted	20		
	No. of PhDs awarded per teacher	20		
	No. of Research papers per teacher in indexed Journals (SCOPUS/ SCI/ SCIE/ Web of Science)	20		
	No. of Books Chapters in edited Volumes per teacher	5		
	No. of Books Published per teacher	10		
	No. of Papers published in National/ International Conference Proceedings	15		
	Average h-index of the department as per SCOPUS/ Web of Science	5		
	Average citation index of the department as per SCOPUS/ Web of Science/ Indian Citation Index	5		

	Total	100		
3..5	Consultancy			
	Revenue generated from Consultancy/ from Corporate Training/ any other source	20		
	Total	20		
3.6	Extension Activities			
	No. of awards and recognition received for extension activities from govt./ recognized bodies	5		
	Average percentage of teachers/staff participating in extension activities (Swatch Bharat, AIDS awareness, Gender Issues, Unnat Bharat etc.) through Extension and Outreach office/ NSS/ NCC/ Red Cross/ YRC/ Professional Society/ Student Society	15		
	Average percentage of students participating in extension activities (Swatch Bharat, AIDS awareness, Gender Issues, Unnat Bharat etc.) through Extension and Outreach office/ NSS/ NCC/ Red Cross/ YRC/ Professional Society/ Student Society	20		
	Total	40		
3.7	Collaboration			
	No. of collaborative activities for Research, faculty exchange, student exchange per year	5		
	No. of linkages with Institutions/ Industries for internship, on the job training, Project work, sharing of research facilities	5		
	No. of functional MOUs with Institutions of National & International Importance/ Industry/ Corporate House/ Others	10		
	Total	20		
Any additional comments/feedback/ observations/advice which may or may not be based on above points:				

4. Infrastructure and Learning Resources (100)

S. No.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
4.1	Physical Facilities			
	No of class rooms/tutorial (with AC/ Without AC)	10		
	No of laboratories/research lab (with AC/ Without AC)	10		
	No. of Faculty rooms/cabins	5		
	No. of Seminar Room (with AC/ Without AC)	5		
	Equipment available (Adequate as per curriculum)	5		
	No. of Computing hardware facilities	5		
	Class rooms furniture (Adequate quantity and quality)	5		
	Laboratories furniture (Adequate quantity and quality)	5		
	Total	50		
4.2	Library as a learning resource			
	Departmental library	15		
	No. of books/journal/e-books/e-resources purchased on department recommendation	10		
	Total	25		
4.3	IT infrastructure			
	Percentage of classrooms and Seminar rooms with ICT enabled facilities such as LMS/ Smart class	10		
	Student/ Computer ratio	10		
	Total	20		
4.4	Expenditure on Physical Infrastructure augmentation	05		
	Total	05		
Any additional comments/feedback/ observations/ advice which may or may not be based on above points:				

5. Student Support and Progression (100)

S. No.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
5.1	Student support			
	Participation of students in capability enhancement and development schemes <ul style="list-style-type: none"> • Guidance for competitive examination • Career Counselling • Soft skill development • Remedial Coaching • Bridge courses • Yoga and Meditation • Personal Counselling 	20		
	Mechanism for timely redressal of student grievances including sexual harassment (Yes/ No)	10		
	Total	30		
5.2	Student progression			
	Average percentage of placement of outgoing students	20		
	Percentage of student's progression to higher education	10		
	Average percentage of students qualifying in State/ National/ International level of examinations (NET/SLET/GATE/GMAT/CAT/GRE/TOFEL/ Civil Services examination)	10		
	Total	40		
5.3	Student Participation and Activities			
	No. of awards/ medals for outstanding performance in sports/ cultural activities at National/ International level	20		
	Extent of participation of Alumni in the affairs of the Department	10		
	Total	30		
Any additional comments/ feedback/ observations/ advice which may or may not be based on above points:				

6. Governance, Leadership and Management (100)

S. No.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
6.1	Department Vision and Leadership			
	Vision, Mission and Quality Objective are prepared in a consultative manner and displayed prominently	30		
6.2	Strategy development and deployment			
	Strategic Plan of the department is documented and implemented in timelines	20		
6.3	Faculty Empowerment Strategies			
	Minutes of meeting of Faculty meetings, DPC, DRC, BOS are documented and maintained	15		
	No. of welfare measures for Teaching and non-teaching staff (such as support for higher qualification)	15		
	Average percentage of teachers provided with financial support to attend conferences/ workshops Orientation course/ FDP/ Refresher course/ STP and membership fee for professional bodies	20		
	Total	50		
Any additional comments/ feedback/ observations/ advice which may or may not be based on above points:				

7. Values and Best Practices (100)

S. No.	Sub-parameter	Marks Assigned	Self-Assessment Score	Marks Scored
7.1	Department values & social responsibility			
	Participation in gender equity promotion programs	5		
	Common room facility available	10		
	Extent of green practices in the department	10		
	Availability of resources for differently abled persons	10		
	No. of specific initiative to address locational advantages and disadvantages	5		
	Code of conduct handbook exist for students and teachers	5		
	Core values are displayed in the department	5		
	Department plans and organizes appropriate activities to increase consciousness about National identities, symbols, fundamental duties and rights of Indian Citizens	5		
	Department follows approved Manual of official procedure Handbook? (yes/ no)	5		
	Department observes complete transparency in its financial, academic, administrative and auxiliary functions	10		
	No. of other best practices in the department (provide list)	20		
	Describe one area where department is distinctive	10		
	Total	100		
Any additional comments/ feedback/ observations/ advice which may or may not be based on above points:				