

Dr. Babasaheb Ambedkar Technological University

Academic Audit of University Department (AY: 2020-2022)

Format for submission of Academic Audit Report (AAR)

Name of Department: E & TC Engineering

Sr. No	Item	Grade	Impression
1	Conduct of Classes	A	After the evaluation of course files, it is observed that classes have been conducted regularly as per time-table.
2	Co-Curricular Activities & Extra-Curricular Activities	A	Department conducted enough number of workshops, competitions, conferences, seminars, plenary talks, faculty development programmes, guest lectures from industry experts for faculty and students of the departments
3	Department Activity Register	A	Department has maintained the records of all activities conducted time to time in the form of reports, minutes, photographs, feedbacks, attendance etc. Overall record keeping is found to be good.
4	Discipline in the campus	A	Department has discipline committee which is responsible to maintain discipline. The rules and regulations framed by the University are followed strictly. Even being the biggest department in the University, with the limited resources and manpower discipline maintained in the department is observed to be excellent.
5	IQAC	A	IQAC Cell is in place for the department. With regular interactions and interventions, overall quality in all aspects including teaching-learning is well maintained.

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6	Placement	B	<p>Though department has prioritized this activity, there is scope to improve the current scenario.</p> <p>Department is also working on improving placements in core industries. It is also encouraging students to opt for Innovation and Incubation courses from the initial years itself.</p> <p>To create awareness, the department is regularly organizing talks, workshops, skill development programmes by successful entrepreneurs, alumni, academicians and industrial experts.</p>
7	Departmental research	A	<p>It is observed that department faculty and students regularly publishing in the SCI/SCOPUS journals and conferences.</p> <p>Research facility is adequate in the department and it is upgraded regularly as per requirement.</p> <p>Most of the UG and PG projects given to the students are product based.</p> <p>In the academic year about 36 projects were IoT based and 03 projects were Machine learning based. Department is also promoting interdisciplinary and multidisciplinary research.</p> <p>Presently 37 students doing Ph.D in the department out of which 02 students are on fulltime basis.</p> <p>Efforts are put in to create the awareness amongst the student/faculty about research and publication ethics. The content related to this have been incorporated in a PG level course.</p>
8	Innovation Incubation Center	A	<p>Incubation Unit is developed in the department to help the students, faculties and research scholars for building entrepreneurship as a career. Department has conducted large number of entrepreneurship programs successfully.</p> <p>Efforts are put in to incorporate these activities with the support from Government agencies and industries.</p>

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9	Career Guidance Cell	B	This cell is in place at department. Expert talks have been arranged for the students regularly. This helps to create awareness about various opportunities available to them. In this regard, department is receiving Alumni support.
10	SWAYAM facilities	A	As per the UGC/AICTE guidelines, the SWAYAM/NPTEL/edX/Coursera courses are incorporated in the curriculum. Around 20% of total credits are covered under this initiative. To support these activities the required digital platform is made available in the department.
11	Library	A	In addition to University Library, department has its own library in place. The books in the library have been collected from Alumni, Teachers and outgoing students, complementary books from the publishers. The record of the same is maintained by the department.
12	Research & Laboratories	A	Adequate research facility is available in the department. Major research areas of the department are Microwave Engineering and Signal Processing. The state-of-the-art equipment and software are available in the department such as Vector Network Analyzer (26 GHz), RF generator (20GHz), PCB prototyping facility, Cadence, HFSS, MATLAB, SPSS, etc.
13	Games & Sports	B	Students are encouraged to participate in the extra-curricular activities. The student bodies represent in the events like Ashvamedha and intra/inter University sport activities.
14	Humanities and Foundation Courses	A	The respective courses such as Universal Human Values I and II, Basic Human Rights, Constitution of India, Energy and Environment Engineering, etc. have been incorporated in the curriculum as per the mandate of UGC/AICTE.
15	Teacher Evaluation by Students	A	Online feedback system is in place. After collecting feedback from students, the same is analyzed and communicated to the respective faculty.

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16	Maintenance of Registers	A	For keeping track of various activities different registers have been maintained by the department.
17	Teaching Diaries & Plans	A	In course file along with teaching plan, notes, course material, question bank, assignments, question papers have been well maintained. Last five years record is available in the department.
18	NCC / NSS	A	This activity is mandatory for all the students of the University.
19	Women Empowerment Cell	A	This cell is at University level. One faculty of the department is the member of this cell.
20	Professional Club	B	Professional Clubs like TEESA, IETE student chapter and UCEL (United cell for Entrepreneurship and Leadership) are active in the department.
21	Sanitation & drinking water	B	Adequate facility is available.
22	Cleanliness	B	Adequately observed.
23	Functioning of Teachers	A	All the teachers have assigned the duties like maintaining the data for AICTE, IIC, NBA/NAAC, MIC, ARIIA, AISHE, NIRF, AIU, IIRS and AQAR. Faculty members are holding additional responsibilities like Dean, Associate Dean, Associate Controller of Examinations, Finance officer of the University, OSD, etc.
24	Over All Impression on the Department	A	Excellent The teaching-learning, co-curricular and extra-curricular activities along with research and innovation initiatives taken by the department are found remarkable.

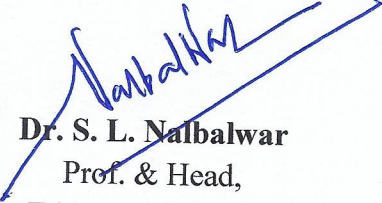
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Any other observation:

1. Looking towards the intake capacity and quality and results thereof, it is indicative that teaching-learning process is effectively carried out leading to holistic development of the students.
2. Despite of limited number of faculty members in the department, the participation and achievements observed to be remarkable.
3. Faculty connect with outside world including industries and research organizations in India and Abroad is visible.
4. Active participation of the department in translation and review of technical books in regional language is well appreciated at State as well as National level.


Dr. S. L. Nalbalwar
Prof. & Head,
E&TC Engg. Dept.
DBATU, Lonere


Prof. R. N. Awale
Professor of Electronics Engg.
VJTI, Mumbai
17.11.2022

Prof. F. S. Kazi
Professor of Electronics Engg.
VJTI, Mumbai

Dr. Babasaheb Ambedkar Technological University

Academic Audit of University Department

Format for submission of Academic Audit Report (AAR)

Period of Audit: 1st July 2021- 30th June 2022

Audit Date :- 17 November 2022

I- Department profile (To be filled in by the IQAC Co-ordinator/Director)

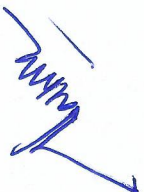
1.	Name of the Department, Website, email and Ph. No.	Department of Electronics & Telecommunication Engineering Website: wix.com/drbatuextc/extc Email: sinalbalwar@dbatu.ac.in 8793814621
2.	Name of the HoD, email & Mob. No	Dr. S. L. Nalbalwar, nalbalwar_sanjayan@yahoo.com 87938 14621
3.	Name of the Vice-HoD, email & Mob. No.	NA
4.	Name of the IQAC Coordinator, email & Mob. No.	Dr. S. L. Nalbalwar
5.	Year of Establishment & own land if any	1995, Yes
6.	NAAC Grade with Cycle, Accredited Year (if not Accredited Status of Preparations)	SSR preparation is in progress.
7.	UGC Recognition (2F & 12 B)	YES
8.	Department Working Hours(if shift system mention details of both shifts & give reasons for shift system)	9.00 AM To 6.00 PM (Only one shift)
9.	No. of Posts Sanctioned: 20	No. of Regular Faculty : 06 No. Contract Basis Faculty: 16
10.	Course wise & Year wise Students strength particulars (Proforma enclosed & to be	Attached Please see Annual Report 2021-22

HOD E&TC Engg.

	submitted along with AAR)					
	Item	Impression of Academic Auditor with grade A(Good) /B(Satisfactory) /C (poor) after observation		Recommendation/Suggestions/ Remark by Academic Auditors		
		Grade	Actual Status			
II-CURRICULAR ASPECTS						
1	Implementation of Annual Department Plan	A	Annual department plan is prepared before semester starts and is followed religiously throughout the semester.	Road Map of the department is prepared and implemented accordingly.		
2	Departmental Annual Curricular Plans	A	Annual department curricular plan is prepared at the beginning of the semester and is followed throughout the semester.	Curricular plan is prepared at start of semester and is implemented.		

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3	Department Activity Register for the Academic Year	A	It is maintained with proofs	<p>Every activity is recorded. The details of activities carried out in the academic year 2021-22</p> <ol style="list-style-type: none"> 1. Department meetings : 04 2. BoS meetings : 01 3. Expert Talks: 11 4. Conference organized : 01 5. Plenary talks : 03 6. Workshops : 05 7. FDPs : 03 8. DRC meetings : 03 9. Webinar : 01 <p>Necessary details are also uploaded on the department website.</p> <p>Department is actively involved in conducting co-curricular activities for enhancement of knowledge and up gradation of skills of faculty and students of the departments.</p>
4	Departmental Activity Registers (Dept. Wise)	A	Maintained	<p>Record for every activity is maintained by the department. This record is available in the form of minutes, attendance, photographs, feedbacks, reports etc.</p>
5	Add-on Courses (Department-wise) completed during Academic Year	A	Recent trends and areas are identified and the courses the courses duly planned	<p>University/ Department have signed MoUs with industries such as NIELIT, Million Minds Eco System, ITIE Knowledge Solutions, TATA Technologies Ltd, Pune etc. for certification courses or add on courses.</p>
6	Add-on Courses (Department-wise) in Academic Year	A	PG students and faculty members successfully completed	<ol style="list-style-type: none"> 1. It is advised to plan certification courses in the next academic year recommended by NASSCOM, MOOC, SWAYAM, NSF, NPTEL. 2. For PG program it is made mandatory to opt for MOOC/NPTEL/SWAYAM course as a credit course.

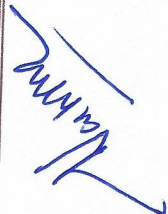


			online certified courses	3. 03 Faculty members of the department successfully completed the courses from SWAYAM platform.
7	Coverage of Syllabus (Average Percentage)	A	Lecture plan is prepared for every course by the concerned faculty member & reviewed by the HoD.	1. 90-95% syllabus is covered for all courses of UG and PG program. Record is maintained both in hard and soft formats. Attendance online records are also available on the University web-portal. 5% to 10 % of the course contents are given as self-learning modules for the students. 2. Quality of question papers is found to be Good in all aspects.
8	Teaching of HVPE & Foundation Courses	A	Implemented	Implemented as per guidelines by UGC/AICTE.
9	Teaching of Environmental Science and Ethics	A	Implemented in first year curriculum	Implemented as per guidelines by UGC/AICTE.
10	Maintenance of Student Attendance Registers	A	Maintained	E-attendance record is maintained for each semester.
11	Feedback forms on Curriculum from students	A	Record is available online	1. Regular feedback from students is taken and analysis is carried out. 2. Appreciation letters issued to the faculty members having good feedback. 3. Counseling is provided for the faculty members having performance below average.
III-TEACHING, LEARNING & EVALUATION				
1	Teaching Diaries & Plans in the Prescribed Formats	A	Lecture plans were prepared by faculty members at the beginning of the semester	Course files containing 1. Lecture plans 2. CO/PO analysis & their attainments 3. Mid Term Result analysis 4. Attendance analysis and 5. Continuous performance evaluation is well

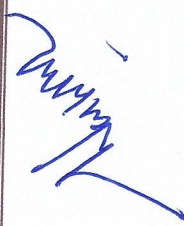
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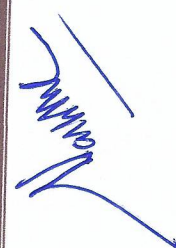
2	Co-Curricular Activities (Department Level)	A	Conducted with focus on skill development of students	<p>maintained.</p> <ol style="list-style-type: none"> 1. Co-curricular activities have been planned and conducted for students as well as faculty members. 2. Induction program was executed for F.Y. B. Tech. students as per AICTE guidelines. 3. Product based projects have been made mandatory for all UG and PG students. 4. Under <i>Smart India Hackathon competition</i>, 5 projects have been registered by the dept. students. 5. Session on Prototype Validation - Converting Prototype into a Start-up for dept. students on 13/08/2021 6. Workshop on "Entrepreneurship and Innovation as Career Opportunity" 7. Workshop on Entrepreneurship Skill, Attitude and Behaviour Development 8. Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialisation of Lab Technologies & Tech-Transfer 9. Workshop on Intellectual Property Rights (IPRs) and IP management for start up 10. Workshop on Design Thinking, Critical thinking and Innovation Design
3	Academic Courses, Programs (Degree & Above level)	A	AICTE approval	<ol style="list-style-type: none"> 1. For B. Tech Programme the intake is 90 2. For M.Tech Programme the intake is 18



					3. For Ph.D. Programme 37 research scholars are currently working (Full time and Part time)
4	Conduct of Internal Examinations-continuous assessment & Mid-Term Test	A	Conducted	1. Continuous assessment is carried out by the department. 2. Mid test is conducted by the examination department. Record of the assessment is well maintained and also analysis is carried out. Department follows this practice on regular basis (CO-PO mapping for the exam conducted by the department is added in the course file). Department follows this practice on regular basis for each semester. Performance feedback is shared with the respective faculty. Remedial classes are conducted for the courses as per students need. Record of this is maintained in the course file. Teacher's feedback is taken from all students at the end of every semester and analysis is also carried out. Appreciation letters are issued to teachers having good feedback.	
5	Subject wise result analysis	A	Done at the end of semester		
6	Teacher wise result analysis	A	Done		
7	Remedial Classes	A	Arranged		
8	Record of Evaluation of Teachers by Students	A	Online feedback at the end of semesters		
IV-RESEARCH AND CONSULTANCY					
1	Is the Department a Recognized Research Centre?	A	Yes	Yes, presently 37 research scholars pursuing their Ph.D. in the department.	
2	No. of Research Guides in the Department	A		Out of 06 regular teachers, 05 are recognized as Ph.D. guides.	
3	No. of Research Scholars working for M. Tech & Ph. D	A	Scholars working in different domain groups	M. Tech -03 and Ph.D.-37. They have been asked to select product based research topics.	



4	Major/Minor/Other Research Projects	A	Three FDPs conducted	Three FDPs projects has been submitted to AICTE by department.
5	Research Papers Published in Academic year (International /National Journals)	A	Regular activity	25 papers are published in the SCI/Scopus journals of high repute.
6	Papers Presented in Academic year (International/ National/ State level conferences)	A	Regular activity	28 papers are published in the National/International conferences of high standing.
7	Books Published in Academic year (Single Author/ Co Author)	A	Yes	Book Translation is done under AICTE Technical Book Translation for 1 st year Diploma & UG with book titles Fundamentals of Electrical & Electronics Engineering (Lab) and Basic Electrical Engineering (Theory & Lab.) respectively. Prof. B.R. Iyer has been appointed as an author for B. Tech. second year book writing on Basic Electronics Engineering by AICTE and also Prof. S.L. Nalwalwar has been assigned responsibility of reviewing this book. Around 05 Guest lecturers on the recent topics are conducted by the department. Three FDP sponsored by AICTE has been successfully conducted by the department for teachers and researchers from all over India. About 100 faculty members attended the same.
8	Seminars/Workshops/ Training Program Conducted in Academic year (International /National/ State)	A	Yes	
9	Record of Consultancy in Academic year	B	Yes	NA
10	Record of MOUs in Academic year	A	Yes. MoUs are signed with industries and training institutes with focus on	1. MoU with Research for resurgence foundation Nagpur was signed on 15 th March, 2022 for carry out research activities jointly. 2. MoU signed with Gong lab Private limited (Coffee io.) on June 20, 2022. It will provide opportunity to the students to assess themselves for employability and sequentially be shortlisted



			skill enhancement and employment		by participating companies and get hired. 3. MoU is entered on 25/09/2021 between DBATU and MAGIC, Aurangabad for collaborative interest and organizational goals. 4. MoU is signed on Indian Institute of Geomagnetism on 28 Jan., 2021 for carry out research activities.
V -EXTENSION ACTIVITIES					
1	Record of Subject/Department Related Extension Activities	A	Available	Records of Extension Activities are conducted and records are maintained.	
2	Name of the NSS PO & Mobile No.	A	Available	H. N. Warahkar, 9403316374	
3	NSS Attendance register	A	Available	Maintained at University Level	
4	NSS Activity register	A	Available	Maintained at University Level	
5	Name of the NCC ANO & Mobile No.	A	Available	Capt. M. P. Bhagat, 7588265601	
6	NCC Attendance register	A	Available	Maintained at University Level	
7	NCC activity register	A	Available	Maintained at University Level	
10	Name of the Eco- & Innovation Club Coordinator & Mobile No.	A	Available	Under NSS, students do perform Eco friendly projects. Though there is no formal club for this.	
11	Eco- & Innovation Club Activities	A	Available	48 activities under IIC has been carried out in the academic year 2021-22. One month "Online Innovation Ambassador training (Foundation Level)", was conducted by MoE's Innovation Cell and AICTE from 30-06-2021 to 30-07-2021 for the Faculties.	
12	Technology & retain	B	Available	Nil	



13	Technology Development and Transfer Cell Activities	C	Contract Working: 11	Nil
14	Any other Club	A	Available	TEESA and UCEL (United cell for Entrepreneurship and Leadership).
VI-LEARNING RESOURCES				
1	Name of the Librarian & Mob. No	A	Available	Mr. Ajay Raghunath Palkar, 9028647912
2	Access timings of the Library	A	Available	9.30AM to 5.30 PM
3	Circulation of Books among Students	A	Available	Accession register is available in the University Central Library and Dept. Library
4	Availability of Previous years Question papers	A	Available	1) Question papers of previous 5 years are available for access to the students through the department library and online platform. In addition Course files are prepared by each faculty member for their respective courses. 2) PO/CO analysis is carried out for each course. Student feedback is taken at the end of semester and accordingly analysis is done. Every faculty is intimated about their course feedback. Question papers are regularly sent to advisory committee members for comments on the quality of question papers.
5	Availability of model answers of previous examinations	A	Available	Model answer set is available with Department. Feedback for the quality of question paper is taken from experts and used for further improvement.
6	Record of Visitors to Library	A	Available	Maintained by University Library and Department Library is maintained by Lab Assistant
7	Status of Library Automation	A	Available	Automation done for 80% of the activities
8	e-Resources	B	Available	Various Journals and Resources procurements are in process
9	Number of E-Journals	B	Available	IEEE are not available, procurement is in Process

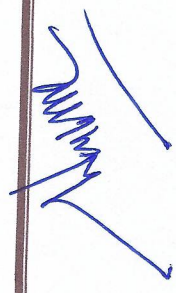


10	Number of Print Journals	A	Available	Available in the University Library
11	Access to NPTEL courses	A	Available	NPTEL Lectures are downloaded and made available on the local server
12	Access to Spoken Tutorials	A	Available	Available through e-learning platforms such as NPTEL, SWAYAM, etc.
13	Access to e-learning tutorials	A	Available	Access to e-journals, NPTEL courses are available
14	TED-x activity on campus	A	Available	Multiple expert talks on TED-x were arranged for the students in the University campus.

VII -Student Support Activities

1	Name of Dean/Faculty In-charge & Mob. No	A	Available	Dr. Dr. S. L. Nalbalwar, nalbalwar_sanjayan@yahoo.com 87938 14621
2	Activities and Support for Sports	B	Available	Students are encouraged to participate in the extra-curricular activities. The student bodies represent in the events like Ashvamedha and intra/inter University sport activities.
3	Records of events conducted and significant achievements in Sports & Games	A	Yes. It is mentioned in Department Annual Report	Record of participation and achievements in various events is well maintained. Also uploaded on department website from time to time.
4	Record of cultural programs conducted	A	Yes. It is mentioned in Department Annual Report	Record of participation and achievements in various events are maintained by the department.

5	Record of any other extra-curricular activities conducted	A	Yes. It is mentioned in Department Annual Report	Extra-curricular activities like Street play Competition, Debate and Essay writing competition, Elocution Competition etc. are conducted.
6	Record of Students trained in different verticals Specialized Trainings	A	Available	1. Students attend various STTPs, workshops, Industrial training and Internships programs. 2. The record of this is well maintained in the form photographs, minutes. All relevant details are uploaded on the department website.
7	Record of Students placed in campus placement	A	Available	60% of the students undergoing for Higher studies like M. Tech, MBA, MS and PhD. Record of students placed in various industries in last have been available on the department website.
8	Name of Career Guidance Coordinator and Mobile No.	A	Available	Prof. S. V. Khobragade, 7507428599
9	Record of activities Career Guidance and placement cell	A	Available	Various expert talks and soft skill development programs are conducted and recorded.
10	Implementation of Departmental Research Plan	A	Available	Yes, presently 37 research scholars pursuing their Ph.D. in the department.
11	IQAC activities & maintenance of records (Action Plan/Minutes of Meeting/ submission of AQAR to NAAC etc.)	A	Available	Minutes of every meeting is maintained by Department office.



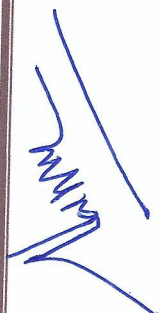
12	Record of Alumni Association Activities	A	Available	Separate Alumni Interaction Committee is available, which is keeping the record of alumni visited to the department and also regularly analyzing the feedback of alumni for improvement. Alumni are regularly invited to guide their juniors.
13	Record of Grievance Redressal Cell / Anti Ragging Cell	A	Available	Anti-ragging Cell as per AICTE norms is formed with participation of faculty members, parents and students.
14	Awards and Prizes earned by students	A	Available	Records of various Achievements by the students are maintained at Dept. office.
15	Mentoring / Counseling System	B	Available	Faculty members of the department are appointed as class coordinators. These coordinators along with senior faculty members are doing the students counseling. A session on "Stress Management" was conducted by Dr. Nandgaokar for UG and PG students.
VIII -Basic Amenities				
1	Maintenance of drinking water	B	Available	Adequate facility is available.
2	Maintenance of Sanitation	B	Available	Adequate facility is available.
3	Rest room for girl students and lady Faculties	A	Available	Rest room is available to female students and faculty members.
4	Greenery & Cleanliness	B	Available	Adequately observed.
5	Health Care Facility	A	Available	First Aid Kit is available in the department for students and faculty members. Also University has its own dispensary.



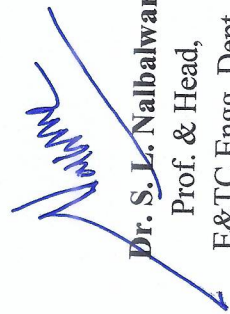
6	Canteen	A	Available	Need based canteen is available to students and faculties.
IX-GOVERNANCE AND LEADERSHIP				
1	Staff meetings Register	A	Available	Records of various meetings are maintained by Department office.
2	Functioning of Committees in Administration (Minutes of Meetings)	A	Available	Various committees are available at department level with participation of faculty, parents and teachers.
3	Awards/Achievements of faculty	A	Available	<p>1. Dr. S. L. Nalbalwar</p> <ul style="list-style-type: none"> • TEQIP Mentor and Performance Auditor by NPIU. • Mentored team, for SMART INDIA HACKATHON 2022. • Co-ordinator of Technical Book Translation in Marathi Language under AICTE • Dean Academics (FoE&T) • CEO and Director (DFoIIE) • Program Chair on ICCET2022 (7th International conference on Computing in Engineering and Technology (ICCET-2022) organized by Dept. of Electronics and Telecommunication Engineering, at Dr. BATU, Lonere during Feb 12-13, 2022.) <p>2. Dr. S. V. Khobragade:</p> <ul style="list-style-type: none"> • Professor in-charge start up. • Co-coordinator Avishkar. <p>Faculties have enrolled for NPTEL courses and successfully completed and certified with ELITE</p>



					performance.
4	Faculty development initiatives	A		System is in place to arrange such programmes and to depute faculties and staff	Department deposes faculty members for their area of interests - STTPs, WS, Training Programs, Conferences and also for Ph.D. program.
X - IT INITIATIVES					
1	e-class rooms (Number & Usage)	A		Fully functional	NPTEL/SWAYAM lectures, TED talks, live telecast.
2	Internet Centre	A		A	Computer center with own server is available at University level with 1 GBPS leased line from NKN.
3	Computer labs (No. of labs & working systems)	A		A	Department has 4 computer labs with 60 working systems. (Configuration: Processor P IV, 4 GB RAM, 1 TB HDD) In addition with Innovation and Incubation management Cell
XI -Best Practices					
1	Record of best/innovative practices by the institution	A		A	<ol style="list-style-type: none"> 1. Annual academic calendar is available and followed. 2. E-learning resources like NPTEL\QEEE, are available for students. 3. Projects are Community based; Product based and focus on providing solution to the real life problems Such as Road bridge monitoring system, Surveillance drone for DBATU surveillance, Digital based smart attendance system. 4. Open Book Tests for interim assessment. 5. Dept. has separate budget. 6. Dept. publishes Annual Report every year.



2	Department Activity Register/ Annual Report	A	A	AQAR, AR are maintained and submitted by department to VC office
	Hard Copy of AQAR	A	A	Submitted in time.
	Over All Impression on the department	A	A	Very impressive and excellent efforts seen by the department despite multiple shortcomings and challenges related to staff shortage and facilities. The teaching-learning, co-curricular and extra-curricular activities along with research and innovation initiatives taken by the department are found remarkable.
3	Area of Improvement	--	--	Student – Teacher ratio and Floor space needs to be provided as per AICTE norms.


Dr. S. L. Nalbalwar
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Prof. R. N. Awale
 Professor of Electronics Engg.
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Prof. F. S. Kazi
 Professor of Electronics Engg.
 VJTI, Mumbai

Academic Audit Summary Sheet

Institution/University Department: Dr. Babasaheb Ambedkar Technological University

Program Title: E&TC engineering

Degree Level: UG

Academic Audit Status: _____ First Academic Audit _____ Second Academic Audit

Academic Year (2021-22)

Evaluation Results

		Met/ Not Met	% achieved
1	LEARNING OBJECTIVES AND RESOURCES		
1.1	The faculty completed a thorough and candid analysis of their process for developing learning objectives for the program, considering measurability, clarity and what students need to know.	Met	100
1.2	The faculty documented or proposed a process for developing learning objectives that are based on realistic and appropriate evidence.	Met	100
1.3	The faculty documented or proposed specific plans to take best practices and appropriate benchmarks into account in the analysis of learning objectives.	Met	95
2	CURRICULUM AND CO-CURRICULUM		
2.1	The faculty completed a thorough and candid analysis of the extent to which they collaborate effectively on the design of curriculum and planned improvements.	Met	80
2.2	The faculty documented or proposed a plan for analysing the content and sequencing of courses in terms of achieving program learning objectives.	Met	100
2.3	The faculty documented or proposed a plan for the ongoing review of curriculum and co-curriculum based on appropriate evidence including comparison with best practices where appropriate.	Met	100
3	TEACHING AND LEARNING PROCESSES		
3.1	The faculty completed a thorough and candid analysis of their process for guiding and improving teaching and learning throughout the program.	Met	95
3.2	The faculty documented or proposed a plan that promotes the effective use of instructional methods and materials for achieving student mastery of learning objectives.	Met	95
3.3	The faculty analysed the extent to which there is true, on-going collaboration in the design and delivery of the teaching and learning processes of the program.	Met	90
4	STUDENT LEARNING ASSESSMENT		
4.1	The faculty documented or proposed indicators of student learning success that are keyed to the learning objectives of the program.	Met	100
4.2	The faculty documented or proposed assessments of student learning that are grounded in best practices and appropriate comparisons.	Met	100
4.3	The faculty documented or proposed a plan for using student	Met	100

	learning assessments that leads to continuous improvements in the program.		
4.4	The faculty documented or proposed a continuous improvement plan that incorporates multiple measures to assess student learning and program effectiveness.	Met	85
5	QUALITY ASSURANCE		
5.1	There is an evident commitment to making continuous quality improvements in the program a top priority.	Met	100
5.2	The faculty documented or proposed a continuous improvement plan that incorporates multiple measures to assess student learning and program effectiveness.	Met	90
6	OVERALL ASSESSMENT		
6.1	The Academic Audit process was faculty driven.	Met	100
6.2	The Academic Audit process (self-study and visit) included descriptions of the program's quality processes including all five focal areas.	Met	85
6.3	The process resulted in a candid description of weaknesses in program processes and suggestions for improvements.	Met	90
6.4	Overall, the visiting team affirms the openness and thoroughness of the program Faculty in completing the academic audit of this program.	Met	100
6.5	The Academic Audit process included involvement of and inputs from stakeholder groups identified by the program's faculty.	Met	90
7	FOLLOW-UP OF PREVIOUS AUDIT		
7.1	An action plan was developed as a result of the previous Academic Audit.	Met	100
7.2	There is documented evidence that recommendations made by the Academic Audit Team have been considered and, when feasible and appropriate, implemented and tracked.	Met	100
7.3	There is documented evidence that the program has implemented and tracked the progress of and use of results from improvement initiatives cited by the faculty its self-study.	Met	100
8	SUPPORT		
8.1	The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources.	Met	100
8.2	The program's operating budget is consistent with the needs of the program.	Met	100
8.3	The program has a history of enrolment rates sufficient to sustain high quality and cost-effectiveness.	Met	100
8.4	The program has a history of graduation rates sufficient to sustain high quality and cost-effectiveness.	Met	100
8.5	The program has a history of placement rates sufficient to sustain the quality of program.	Met	60
8.6	The program has a history of generating support from industries and alumni to sustain itself.	Met	75

Signatures of Academic Auditors




Academic Audit Summary Sheet

Institution/University Department: Dr. Babasaheb Ambedkar Technological University

Program Title: E&TC engineering

Degree Level: **PG, Ph.D**

Academic Audit Status: _____ First Academic Audit _____ Second Academic Audit

Academic Year 2021-22

Evaluation Results

		Met/Not Met
1	LEARNING OBJECTIVES	
1.1	The faculty completed a thorough and candid analysis of their process for developing learning objectives for the program, considering measurability, clarity and what students need to know.	Met
1.2	The faculty documented or proposed a process for developing learning objectives that are based on realistic and appropriate evidence.	Met
1.3	The faculty documented or proposed specific plans to take best practices and appropriate benchmarks into account in the analysis of learning objectives.	Met
1.4	The faculty clearly communicates program objectives to current and potential students, employers or other stakeholders.	Met
2	CURRICULUM AND CO-CURRICULUM	
2.1	The faculty completed a thorough and candid analysis of the extent to which they collaborate effectively on the design of curriculum and planned improvements which will reflect attained competencies in the outcome data.	Met
2.2	The faculty documented or proposed a plan for analysing the content, format and sequencing of courses in terms of achieving program learning objectives with appropriate breadth and depth for the degree offered which allows for attainment of the degree in a timely manner.	Met
2.3	The faculty documented or proposed a plan for determining the soundness of and rationale for curriculum and co-curriculum based on appropriate evidence, including comparison with best practices where appropriate, and communicates these views to the student body.	Met
3	TEACHING AND LEARNING PROCESSES	
3.1	The faculty examined the extent to which there is focus on and periodic, systematic review of the actual process of teaching and learning throughout the program.	Met
3.2	The faculty documented or proposed a plan that promotes the effective use of instructional methods and materials for achieving student mastery of learning objectives.	Met
3.3	The faculty analysed the extent to which there is true, on going collaboration in the design and delivery of the teaching and learning processes of the program with reliance on best practices and resources beyond the confines of the program or department.	Met
3.4	There is a critical mass of faculty and students to promote a scholarly community and assure an appropriate group of peers.	Met
3.5	Faculty/graduate student ratio, average course load, average	Met

	thesis/dissertation load per faculty and distribution across department, and teaching evaluations evidence support of graduate teaching and learning processes.	
3.6	The faculty documented or proposed a plan to inform students of course offerings and the provision of professional development activities and relevant courses to supplement departmental offerings in a timely fashion.	Met
3.7	The faculty documented or proposed a plan to ensure that all students are adequately oriented, advised, mentored and socialized within the discipline and the larger graduate community.	Met
4	STUDENT LEARNING ASSESSMENT	
4.1	The faculty documented or proposed indicators of student learning success that are keyed to the learning objectives of the program.	Met
4.2	The faculty documented or proposed assessments of student learning that are grounded in best practices and appropriate comparisons.	Met
4.3	The faculty documented or proposed a periodically and systematically reviewed plan for using student learning assessments that leads to continuous improvements in the program.	Met
4.4	The faculty documented or proposed a continuous improvement plan that incorporates multiple measures to assess student learning and program effectiveness.	Met
5	QUALITY ASSURANCE	
5.1	There is an evident commitment to making continuous quality improvements in the program (e.g., student advisement and mentoring, use of best practices, recognition of faculty performance, regular and systematic evaluation of student performance) a top priority.	Met
5.2	The faculty documented or proposed ways to ensure that quality assurance will be a systematic and regular process for program improvement.	Met
5.3	The coursework offers sufficient breadth and depth appropriate for the degree offered.	Met
5.4	The faculty are documented to hold terminal degrees in the discipline in which they teach and have experience sufficient to serve as effective mentors for graduate students.	Met
5.5	Data on current students and follow-up data on graduating students including placement data are regularly and systematically collected.	Met
6	RESEARCH OUTCOMES	
6.1	The faculty documented or proposed a plan to ensure that there is a commitment to matching or exceeding comparable institutions in research activities.	Met
6.2	The faculty documented or proposed a plan to assure sufficient depth and breadth in faculty research expertise to enable competitiveness in the external funding arena while allowing for collaboration when desired.	Met
7	RESEARCH ENVIRONMENT	
7.1	The faculty documented or proposed a plan to ensure a commitment to Communicate the program's research environment, research values and priorities.	Met
7.2	The faculty candidly and thoroughly examined the extent to which the department describes itself accurately and completely to current and	Met

	prospective students and other "publics".	
7.3	The department takes active steps to support both junior and senior faculty in remaining vital in their respective research areas.	Met
7.4	The faculty documented or proposed a plan to ensure that departmental processes, policies and procedures positively influence faculty research activities and program competitiveness.	Met
7.5	The faculty documented or proposed a plan that engages graduate students in inquiry and research in collaboration with faculty.	Met
8	SYNERGY WITH EDUCATION	
8.1	The faculty documented or proposed a plan that honestly evaluates departmental resource demands in light of departmental research and scholarship's contribution to its educational programs and the mission of the department, college and university.	Met
8.2	There is a commitment to activities designed to keep the faculty and students informed on contemporary issues related to research (e.g., lecture series, responsible conduct of research workshops, professional development activities).	Met
8.3	The program demonstrates best practices in integrating the science with the practice of the discipline.	Met
8.4	The faculty candidly and thoroughly evaluated the extent to which they incorporate research into the educational programs in support of best practices.	Met
8.5	The program demonstrates best practices in addressing workload demands of theses and dissertations supervision.	Met
9	SPONSORED PROGRAMS	
9.1	The faculty documented and proposed a plan to strive for sponsored research funding at comparable levels with other comparable departments within the institution and across peer institutions.	Met
9.2	The faculty documented or proposed a plan to assure that faculty are consistently informed of external funding opportunities as well as the availability of assistance in areas such as proposal writing and project management.	Met
10	QUALITY AND PRODUCTIVITY INDICATORS	
10.1	There are appropriate indices endorsed by the program faculty as means to gauge faculty quality and productivity.	Met
10.2	The faculty documented or proposed ways to ensure that quality research and productivity will be systematically and regularly examined across the faculty lifespan.	Met
10.3	The culminating experience required by the program both in terms of comprehensive examination and/or research allows the student to demonstrate the breadth, depth and integration of the disciplinary coursework and experiences with the demonstration of communication skills and the ability to apply knowledge independently.	Met
11	CONTRIBUTIONS TO PROGRAM, DEPARTMENTAL AND UNIVERSITY GOALS	
11.1	There is a process in place which is communicated to other levels of the institution that evaluates the sufficiency of resources in place to meet the teaching responsibilities while actively engaging in research with graduate students and undergraduates.	Met

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11.2	The faculty documented and proposed a plan to encourage and support research outcomes congruent with the department's purpose and the university mission.	Met
11.3	The faculty clearly state and embrace appropriate admission standards, completion standards and graduation rates which are readily available to prospective and current students.	Met
12	OVERALL ASSESSMENT	
12.1	The Academic Audit process was faculty driven.	Met
12.2	The Academic Audit process (self-study and visit) included descriptions of the program's quality processes.	Met
12.3	The process resulted in a candid description of weaknesses in program processes and suggestions for improvements.	Met
12.4	Overall, the visiting team affirms the openness and thoroughness of the program faculty in completing the academic audit of this program.	Met
13	SUPPORT	
13.1	The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources.	Met
13.2	The program's operating budget is consistent with the needs of the program.	Met
13.3	The operating budget is sufficient to attract quality students and provides adequate support without substantially delaying progress toward the degree.	Met
13.4	The program has a history of enrollment and graduation rates sufficient to sustain high quality and cost-effectiveness.	Met
13.5	The operating budget is sufficient to allow faculty regular opportunities for professional development including travel and presentation of research findings, participation in professional organizations, workshops and other learning activities.	Met
14	FOLLOW-UP OF PREVIOUS ACADEMIC AUDIT	
14.1	An action plan was developed as a result of the previous Academic Audit.	Met
14.2	There is documented evidence that Recommendations made by the Academic Auditor Team have been considered and, when feasible and appropriate, implemented and tracked.	Met
14.3	There is documented evidence that the program has implemented and tracked the progress of and use of results from Improvement Initiatives cited by the faculty in its self-study.	Met

Signatures of Academic Auditors