

# ACADEMIC AUDIT

(2017 - 2018)



**Department of Mechanical Engineering,**  
**Dr. Babasaheb Ambedkar Technological University,**  
Lonere - 402 103, Dist- Raigad, Maharashtra

## Academic Audit Summary Sheet

Institution: **Dr. Babasaheb Ambedkar Technological University, Lonere**  
 Program Title: **Mechanical Engineering**  
 Degree Level: **Undergraduate**  
 Academic Audit Status: **Second Academic Audit**

### Evaluation Results

		Met/not met	% achieved
<b>1</b>	<b>LEARNING OBJECTIVES AND RESOURCES</b>		
1.1	The Faculty member has prepared Course Files as per the learning objectives of the program	Partially Met	80%
1.2	The Faculty member has shared his course file with the students of the class through Intranet/ Social media or any other means	Partially Met	80%
1.3	The faculty member documented specific benchmarks of his course to account for learning objectives	Not Met	--
<b>2.</b>	<b>CURRICULUM AND CO-CURRICULUM</b>		
2.1	The faculty member collaborated with other faculty members for effective design, sequence of courses and delivery of course for improvements and documented these efforts appropriately	Partially Met	50%
2.2	The faculty member documented a plan for analyzing the course content in terms of achieving program objectives.	Partially Met	60%
2.3	The faculty member documented a plan for review of curriculum and co-curriculum comparing those with the best practices elsewhere or in best institutes	Not Met	--
<b>3</b>	<b>TEACHING AND LEARNING PROCESSES</b>		
3.1	The faculty member analyzed his/her own methods for improving teaching and learning throughout the program and practiced them.	Partially Met	50%
3.2	The faculty member developed and promoted effective instructional methods, other than lecturing, so that student achieve the learning objectives.	Partially Met	60%
	The faculty member developed materials for achieving student mastery of learning objectives.	Partially Met	50%
<b>4.0</b>	<b>STUDENT LEARNING ASSESSMENT</b>		
4.1	The Faculty member has announced the method of continuous assessment at the beginning of the course and followed it throughout.	Met	90%
4.2	The faculty member developed techniques, other than written test, for the student learning assessments to improve the program.	Partially Met	60%
4.3	The faculty member has documented assessments of student learning	Met	100%
4.4	The faculty member has developed measurable indicators of student learning success	Met	80%
4.5	The faculty member has developed and documented a continuous improvement plan that incorporates multiple measures to assess student learning and program effectiveness.	Met	60%
4.6	The Student has put in his/her own efforts in the learning process from resources outside the Institute.	Partially Met	50%
4.7	The students are challenged enough to use their knowledge creatively	Partially Met	60%
<b>5.0</b>	<b>QUALITY ASSURANCE</b>		
5.1	There is an existing process in the Institute to understand the parameters of quality of teaching and learning processes	Partially Met	50%

5.2	There is an initiative to understand the parameters of quality of teaching and learning processes, if not existing.	Partially Met	50%
5.3	There is commitment to making continuous quality improvements in the program a top priority	Partially Met	70%
5.4	The performance of students in Internal Assessment and University Examinations is comparable.	Partially Met	80%
5.5	There is sufficient feedback obtained from stakeholders in development of academic processes in the College.	Partially Met	50%
5.6	There is sufficient evidence of attempts to understand the industries/ Society's need in delivery of appropriate course content to the students	Partially Met	25%
6	<b>OVERALL ASSESSMENT</b>		
6.1	The Academic Audit process was Faculty driven.	Partially Met	80%
6.2	The Academic Audit process (self-study and visit) included descriptions of the program's quality processes including all five focal areas.	Partially Met	60%
6.3	The Audit resulted in a candid description of weaknesses in program processes and suggestions for improvements.	Partially Met	70%
6.4	There is openness and thoroughness of the faculty members in completing the academic audit of this program.	Partially Met	80%
6.5	The Academic Audit process included involvement of and inputs from stakeholder groups identified by the program's faculty members	Partially Met	80%
7	<b>FOLLOW-UP OF PREVIOUS AUDIT</b>		
7.1	An action plan was developed as a result of the previous Academic Audit.	Yes	-
7.2	There is documented evidence that recommendations made by the previous Academic Audit Team have been considered and, when feasible and appropriate, implemented and tracked.	Yes	-
7.3	There is documented evidence that the program has been implemented and tracked the progress of and use of results from improvement initiatives cited by the faculty its self-study.	Yes	-
8	<b>SUPPORT</b>		
8.1	The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources.	Yes	80%
8.2	The program's operating budget is consistent with the needs of the program.	Yes	80%
8.3	The program has a history of enrolment rates sufficient to sustain high quality and cost-effectiveness.	Yes	100%
8.4	The program has a history of graduation rate sufficient to sustain the quality of the program.	Yes	100%
8.5	The program has a history of placement rate sufficient to sustain high quality of program outcome.	Partially Met	15%
8.6	The Program has a history of generating support from industries and alumni to sustain itself.	Partially Met	10%

Signatures of Academic Advisors

Dr. S. A. Mastud  
Head and Associate Professor,  
Mechanical Engineering Department, VJTI Mumbai

Dr. P. M. Karande  
Associate Professor,  
Mechanical Engineering Department, VJTI Mumbai

Academic Audit of University Department  
Format for submission of Academic Advisors Report (AAR)  
Name of The Department:- Mechanical Engineering

S. No	Item	Grade *	Impression
1	Conduct of Classes	A	Well Conducted
2	Co-Curricular Activities & Extra-Curricular Activities	A	Good participation of students in Co-Curricular and extra-curricular activities.
3	College Activity Register	A	Maintained records properly
4	Departmental Activity Registers	A	Well maintained records of different activities.
5	Discipline in the campus	A	Good discipline.
6	IQAC	A	IQAC is ensuring to enhanced the overall quality.
7	Placement	C	Lots of efforts are required to increase the placement records.
8	Departmental research	A	Good research outcome, more patents can be filed.
9	Career Guidance Cell	B	Separate career guidance activities need to be established in TPO cell.
10	SWAYAM facilities	B	Syndicate room can be used fully to provide self learning courses to students.
11	Library	A	Proper book orientation and book shelves need to be provided on urgent basis.
12	Research & Laboratories	B	Many of the laboratories don't have partitions and proper demarcation. Separate sitting arrangement with writing boards must be established at the earliest.
13	Games & Sports	B	Can do better by motivating students to participate in various games

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S.No	Item	Grade *	Impression
14	Humanities and Foundation Courses	B	Need to start.
15	Teacher Evaluation by Students	A	It is in place and well executed, online feedback can be started.
16	Maintenance of Registers	A	Well maintained.
17	Teaching Diaries & Plans	A	Available
18	NCC / NSS	A	Available
19	Women Empowerment Cell	A	Available at university level, can start at department level.
20	Professional Club	A	SAE, ISHRAE are active.
21	Sanitation & drinking water	A	In good condition
22	Cleanliness	B	Need to improve.
23	Functioning of Teachers	A	Good
24	Over All Impression on the College	A	Good
25	Any Other important Observation - Need to improve with respect to infrastructure, cleanliness, placement.		

\* A(Good)/B( Satisfactory)/C (poor)

**Signatures of Academic Advisors**

1 Dr. S. A. Mastud

( Head and Associate Professor, Mechanical Engineering VJTI Mumbai)

2 Dr. P. M. Karande

(Associate Professor, Mechanical Engineering VJTI Mumbai)

3. Dr. M. Sadaiah, HOD, Mech. Engg.

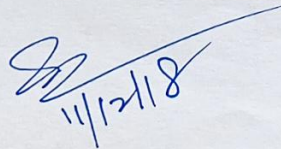
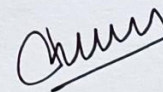
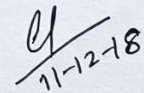
4. Dr. A. N. Singh I&AC Director.

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**Dr. Babasaheb Ambedkar Technological University****Academic Audit of Department****Format-I (Department Data)****Name of the University Department:- Mechanical Engineering****Period of Audit: July 2017 – June 2018****I-Department Profile**

1	Name of the University Department, Website, email and Ph.No.	Department of Mechanical Engineering, www.dbatu.ac.in, msadaiah@dbatu.ac.in, 9423092195		
2	Name of the HoD, email & Mob.No	Dr. Mudigonda Sadaiah, msadaiah@dbatu.ac.in, 9423092195		
3	Name of the Vice-Principal, if any, email & Mob. No.	NA		
4	Name of the IQAC Coordinator, email & Mob. No.	Dr. L. N. Singh, lnsingh@dbatu.ac.in ,8087369025		
5	Year of Establishment & own land if any	1992, Yes		
7	NBA accreditation of courses	Not accredited		
8	NAAC Grade with Cycle, Accredited Year & CGPA ( Status of preparation if not Accredited)	B Grade, 1st Cycle, 2015, 2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb Ambedkar Technological University, Lonere-Maharashtra		
9	UGC Recognition (2F & 12 B)	Yes		
10	Department Working Hours( if shift system mention details of both shifts & give reasons for shift system)	8.00 A.M. TO 6.00 P.M.		
11	No. of Posts Sanctioned: 19	Regular Faculty Working: 12	Contract Faculty Working: 06	Adjunct Faculty:01

\*: Prepared for current academic year

  
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### I-Department Profile

	Item	Status ( Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B( Satisfactory)/C (poor) after Observation	Recommendation/Suggestions by Academic Advisors
			Grade	
12	Implementation of Annual Departmental Plan	Annual department plan was prepared well before start of academic Year	A	Well Implemented
13	Departmental Annual Curricular Plans	Curricular plan was prepared well before start of semester.	A	Well Implemented
14	Whether the above two circulated among Students?	Not Circulated (Annual Institutional Plan is available on university Website)	A	Well Implemented
15	Department Activity Register during the academic year	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	A	Well maintained
16	Department Calendar/Department Magazine	Available on DBATU website	A	Well maintained

\*: Prepared for current academic year

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17	Add-on Courses (Department-wise) completed during previous year	Nil	C	Need to be enhanced
18	Add-on Courses (Department-wise) during current academic year	It is Planned to conduct certification courses in the current academic year. Such as course recommended by NASSCOM, SWYAM, NSF	B	Need to be enhanced
19	Coverage of Syllabus (Average Percentage)	Approximately 80% (Student Feedback on Syllabus Coverage is available). Attendance online record is also available on the University web-portal.	A	Well Implemented
20	Teaching of Humanities & Foundation Courses	Implemented as per guidelines by UGC/AICTE at First Year Engineering	A	Incorporated as per UGC/AICTE guidelines
21	No. of New UG & PG Courses introduced this year:	Nil	C	
22	Maintenance of Student Attendance Registers	Maintained. For each semester e-attendance record is available.	A	Well Maintained

\*: Prepared for current academic year

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### III-TEACHING, LEARNING & EVALUATION

23	Teaching Diaries & Teaching Plans in Prescribed Formats	Teaching Plan and Course files are maintained by individual faculty members.	A	Available
24	Co-Curricular Activities ( Department level)	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	A	Cynosure, SAE, ISHRAE, etc.
25	Academic Competitions ( University Level & Above)	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	B	Cynosure, SAE, ISHRAE, etc.
26	Conduct of Internal Examinations-Unit, Half-Yearly and Prefinal	Continuous assessment is carried out by the individual faculty members. Mid test is conducted by the examination department. Record of Continuous assessment is available.	A	Routinely done
27	Subject wise result analysis	Record is available.	A	Routinely done
28	Teacher wise result analysis	Record is available.	A	Routinely done
29	Remedial Classes	Nil	C	Summer refresh courses and make up classes

\*: Prepared for current academic year

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				can be conducted.
30	Record of Evaluation of Teachers by Students	Feedback on Teachers by the students is taken and analysis is carried out.	A	Well Implemented
<b>IV-RESEARCH AND CONSULTANCY</b>				
31	Is the Department a Recognized Research Centre	Yes, Department is a Recognized Research Centre.	A	
32	No. of Research Guides in the Department	10	A	2 professors and 8 Associate professors
33	No. of Research Scholars working for Masters & Ph. D	Ph. D – 6 Masters - 43	A	
34	Major/Minor/Other Research Projects	PG Projects – 22 Major UG Projects – 8 Industry Projects - 6	A	
35	Research Papers Published in previous academic year (International/ National)	05 International Conference 19 International Journal	A	Conferences: 24
36	Papers Presented in previous academic year (International/ National/ State)	05	A	

\*: Prepared for current academic year

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37	Books Published in previous Academic year ( Single Author/ Co Author)	*Activity not planned	C	Need to be initiated
38	Seminars/Workshops/ Training Programme Conducted (International/ National/ State )	*Activity not planned	B	
39	Record of Consultancy in previous academic year	Industry Projects - 6	A	Need to be enhanced
40	Record of MoUs in previous academic year	6	A	Need to be enhanced
<b>VI-EXTENSION ACTIVITIES</b>				
41	Record of Subject/Department Related Extension Activities	Record of few activities is maintained by the department	A	NSS/Training /etc.
42	Name of the NSS PO & Mobile No.	H. N. Warahtkar, 9403316374		
43	NSS Attendance register	Maintained at University Level	A	Actively participants from Mechanical department (36 Students)
44	NSS Activity register	Maintained at University Level	A	Maitained at University Level

\*: Prepared for current academic year

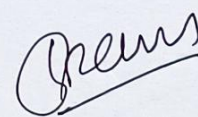
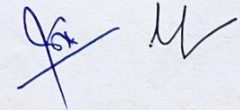
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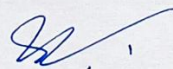
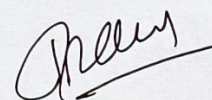
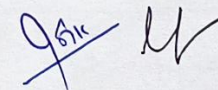
45	Name of the NCC ANO & Mobile No.	M. P. Bhagat, 7588265601		
46	NCC Attendance register	Maintained at University Level	A	Maitained at University Level
47	NCC activity register	Maintained at University Level. Annual Activity Report 2017-18 is maintained by the department.	A	Maitained at University Level
48	Name of the professional Club Coordinator & Mobile No.	SAE Dr. R. S. Pawade Mo. No. – 8698559938 ISHRAE Dr. N Agrawal Mo. No. - 9422472997		
49	Professional Club Activities	ISHRAE JOB JUNCTION, AQUEST arranged by ISHRAE Mumbai, JAMBOREE, SQL TEST by SAE India	A	
50	Name of the Women Empowerment Cell (WEC) Coordinator & Mobile No.	Maintained at University Level	A	Maintained at University Level
51	WEC Activities	Maintained at University Level	A	
52	Name of the Eco-Club Coordinator & Mobile No.	Dr. M. Sadaiah		
53	Eco- Club Activities	Technical Project Under Community Service		Product driven R & D

\*: Prepared for current academic year

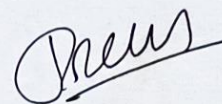
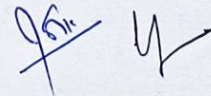
54	Name of the Consumer Club Coordinator & Mobile No.	*Activity not planned		
55	Consumer Club Activities	*Activity not planned		
56	Any other Club	Mechanical Engineering Students Association (MESA)	A	MESA, X'ELERATE
<b>IV-LEARNING RESOURCES</b>				
57	Name of the Librarian & Mob. No	S.P.Vaidya,94233382280		
58	Access timings of the Library	9.30 Am and 5.30 PM. on working days. The library hours are extended during the time of final examinations.	A	
59	Circulation of Books among Students	LIBMAN (Library Software) is used for circulation transaction. Library also runs book bank scheme sponsored by the Govt. of Maharashtra. <a href="http://dbatulibrary/opac">http://dbatulibrary/opac</a> or <a href="http://172.16.5.238/opac">http://172.16.5.238/opac</a> online public access catalogue is used.	B	Book bank, etc.
60	Availability of Previous years Question papers	Last 3 years question papers are available with course files for each course is prepared by every faculty members.	A	Last Three years question papers are available with department.

\*: Prepared for current academic year

61	Record of Visitors	Maintained by University Library .The library is having open access.	A	Maitained by Library and Department Library is maintained by Lab Assistant.
62	Status of Library Automation	The library is partially computerized with the help of LIBMAN (Library Software).The circulation transaction, Barcode generation, No dues certificates, Reminder etc. work is carried out with the help of this software.	A	LIB MAN Software
63	e-Lessons & e-Resources/ e-Journals	Various Journals and Resources are subscribed and available online	B	Need to subscribe more journals.
64	Usage of Internet by students in the Library	Library has separate computer section around 20 computers are available with internet connectivity for students for accessing online journals and e-books.	A	Available
65	Name of SWAYAM Coordinator & Mob. No	Dr.R.S.Pawade,8698559938		
66	Status of SWAYAM facilities functioning	University is recognized as an ACTIVE Local Chapter. EDUSAT hall is used.	A	
67	Whether SWAYAM schedule is circulated to the students	It is circulated by Dr. R. S. Pawade and Dr. S. L. Nalbalwar	A	
68	Maintenance of SWAYAM Viewers'	Partially maintained at University Level by concerned coordinator		

\*: Prepared for current academic year

	Register		A	
<b>VII-Student Support Activities</b>				
69	Name of the Physical/Sports Director & Mob.No	Dr. P. B. Lokhande, 8600674584		
70	Record of Physical Education/Sports Department	Record is maintained at university level	B	Need to improve
71	Records of events conducted	Inter-Collegiate Sports Meet 2017-2018, Inter University Sports meet, Ransangram Inter departmental Sport Event. Dept students' Participation Record maintained. Detailed Record is maintained at university level.	A	Record is maintained at university level
72	Records of significant achievements in Sports & Games	List of winners from mechanical department in Sports events is available. Detailed Record is maintained at university level.	A	Record is maintained at university level
73	Record of Cultural programmes conducted	Dept students' Participation Record maintained. Detailed Record is maintained at university level.	B	Record is maintained at university level
74	Record of any other extra-curricular activities conducted	Dept students' Participation Record maintained.	A	Record is maintained at university level, However extra-curricular activities can be increase by establishing entrepreneurship,

\*: Prepared for current academic year

				robotics, aero-vehicles cells
75	Maintenance of Placement Cell facilities & records	Detailed Record is maintained at university level.	B	Need to improve
76	Record of Student trained and placed	03 students placed in this 2017-18 in campus interview.	C	Need to improve
77	Name of Career Guidance Cell Coordinator & Mob.No	Dr. N. Agrawal 9422472997		
78	Record of activities Career Guidance	Few workshops on start-ups conducted. Record is available.	A	Soft skills development programs are conducted at university level.
79	Departmental Review Committee (DRC) Coordinator & Mob. No.	Dr. V.G. Sargade, 9730341788		
80	Implementation of DRC Action Plan	*Activity not planned		
81	IQAC activities & maintenance of records , (Action Plan/Minutes of Meeting/Proof of submission of AQAR to NAAC/Activity register etc)	IQAC Minutes of Meeting are available. Proof of submission of AQAR is maintained.	A	

\*: Prepared for current academic year



82	Record of Support by Alumni Association	Alumni Association registration is in progress. Department alumnus, Mr. Nitin Patil (CEO of SNP Software, Mumbai) and his team is looking after this activity	B	Records of various Achievements are maintained by HoD office.
83	Record of Grievance Redressal Cell / Anti Ragging cell	Record of Grievance Redressal Cell and Women's Grievance Redressal Committee is maintained at University level.	A	Suggestion box can be implemented at department
84	Record of Anti Ragging cell	Available	A	Record is maintained at university level
<b>VIII-Basic Amenities</b>				
85	Maintenance of drinking water	Some water coolers and filters are available	A	Water coolers and filters are available in the campus.
86	Maintenance of sanitation	Maintained	B	Need to improve
87	Rest room for women students	Available at University level on the ground floor	A	available at every floor
88	Greenery	Maintained at University Level by Estate section	A	University workers are appointed for the purpose.

\*: Prepared for current academic year

89	Cleanliness	Maintained at University Level by Estate section	A	University workers are appointed for the purpose
90	Health Care Facility	University has its own dispensary	A	First Aid Kit is available with department
91	Canteen	Canteen is available to students and faculties.	A	Available
<b>IX-GOVERNANCE AND LEADERSHIP</b>				
92	Management Committee Register	Records of various meetings are maintained by Department office.	A	Records of various meetings are maintained by HOD office.
93	Functioning of Committees in Administration (Minutes of meetings)	Minutes of BoS and Advisory Committee is maintained.	A	Various committees are available at department level with participation of faculty, parents and teacher.
94	Awards/Achievements	Dr. D. B. Waghmare has received		

\*: Prepared for current academic year

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		notification of PhD completion from IIT Kharagpur	A	
95	Faculty development initiatives if any	Prof. G. S. Warkhade submitted PhD Thesis under QIP at NIT Warangal.	A	
<b>X - IT INITIATIVES</b>				
96	E-Class rooms ( Number & Usage)	01 Smart Classroom (LH 206) is functioning.	A	
97	Internet Centre	Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level	A	Computer center with own server is available at University. Connectivity should be improved
98	Computer labs ( No. of labs & working systems)	01 Labs (35 Working PCs)	A	
<b>XI-Best Practices</b>				
99	Record of best/innovative practices by the Department	1)Prepared curriculum with equal contribution of academia and industry experts Curriculum pathchart with set of stream electives is attached (at department level) 2) Item action Tracker	A	Workshop on recent trends, Community Projects etc. are conducted by department.

\*: Prepared for current academic year

		3) 18 Knowledge area course mapping		
100	Department Activity Register & Hard Copy of AQAR of previous year ( should be available with the Principal)	Available	A	Annual Report are maintained and submitted by department to VC office.
			<b>Signatures of Academic Advisors</b> Dr. S. A. Mastud ( Head and Associate Professor, Mechanical Engineering VJTI Mumbai)  2 Dr. P. M. Karande (Associate Professor, Mechanical Engineering VJTI Mumbai)	
	<b>Signature of the HoD</b>			
	Note: the Format is to be filled by the HoD and submitted to the Academic Audit Team.			

\*: Prepared for current academic year

**Dr. Babasaheb Ambedkar Technological University**

**Academic Audit of Department**

**Format for submission of Academic Advisors Report (AAR)**

**Name of the University Department:- Mechanical Engineering**

**Period of Audit: 2017 - 2018**

**I-Department Profile**

1	Name of the University Department, Website, email and Ph. No.	Department of Mechanical Engineering, www.dbatu.ac.in, msadaiah@dbatu.ac.in, 9423092195		
2	Name of the HoD, email & Mob.No	Dr. Mudigonda Sadaiah, msadaiah@dbatu.ac.in, 9423092195		
3	Name of the Vice-Principal, if any, email & Mob. No.	NA		
4	Name of the IQAC Coordinator, email & Mob. No.	Dr. L. N. Singh, lnsingh@dbatu.ac.in ,8087369025		
5	Year of Establishment & own land if any	1992, Yes		
7	NBA accreditation of courses	Not accredited		
8	NAAC Grade with Cycle, Accredited Year & CGPA ( Status of preparation if not Accredited)	B Grade, 1st Cycle, 2015, 2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb Ambedkar Technological University, Lonere-Maharashtra		
9	UGC Recognition (2F & 12 B)	Yes		
10	Department Working Hours( if shift system mention details of both shifts & give reasons for shift system)	8.00 A.M. TO 6.00 P.M.		
11	No. of Posts Sanctioned: 19	Regular Faculty Working: 12	Contract Faculty Working:06	Adjunct Faculty:01

\*: Prepared for current academic year

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I-Department Profile				
	Item	Impression of Academic Advisor along with grade A(Good)/B( Satisfactory)/C (poor) after Observation		Recommendation/Suggestions by Academic Advisors
		Grade	Actual Status	
1	Implementation of Annual Departmental Plan	A	Annual department plan was prepared.	Well Implemented
2	Departmental Annual Curricular Plans	A	Curricular plan was prepared well before start of semester.	Well Implemented
3	Department Activity Register for the Academic Year	A	All Minutes of meetings have been recorded.	Well maintained
4	Departmental Activity Registers	A	Well maintained	Well maintained
5	Add-on Courses (Department-wise) completed during previous year	C	Nil	Need to be enhanced
6	Add-on Courses (Department-wise) during current academic year	B	It is Planned to conduct certification courses in the current academic year. Such as course recommended by NASSCOM, SWYAM, NSF	Need to be enhanced
7	Coverage of Syllabus (Average Percentage)	A	Approximately 80% (Student Feedback on Syllabus Coverage is available).Attendance online	

\*: Prepared for current academic year

			record is also available on the University web-portal.	
8	Teaching of Humanities & Foundation Courses	A	Implemented as per guidelines by UGC/AICTE at First Year Engineering	Incorporated as per UGC/AICTE guidelines
9	Teaching of Environmental Science and Ethics	A	Implemented as per guidelines by UGC/AICTE at First Year Engineering	Incorporated as per UGC/AICTE guidelines
10	No. of New UG & PG Courses introduced this year:	C	Nil	
11	Maintenance of Student Attendance Registers	A	Maintained. For each semester e-attendance record is available.	Well Maintained
12	Feedback forms on Curriculum from students	B	Record is available	Need to incorporate students feedback in curriculum

### III-TEACHING, LEARNING & EVALUATION

1	Teaching Diaries & Teaching Plans in Prescribed Formats	A	Teaching Plan and Course files are maintained by individual faculty members.	Available
2	Co-Curricular Activities (Department level)	A	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	Cynosure, SAE, ISHRAE, etc.
3	Academic Competitions (University Level & Above)	B	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation	Cynosure, SAE, ISHRAE, etc.

\*: Prepared for current academic year

			record is available.	
4	Conduct of Internal Examinations	A	Continuous assessment is carried out by the individual faculty members. Mid test is conducted by the examination department. Record of Continuous assessment is available.	Routinely done
5	Subject wise result analysis	A	Record is available.	Routinely done
6	Teacher wise result analysis	A	Record is available.	Routinely done
7	Remedial Classes	C	Nil	Summer refresh courses and make up classes can be conducted.
8	Record of Evaluation of Teachers by Students	A	Feedback on Teachers by the students is taken and analysis is carried out.	Well Implemented

#### IV-RESEARCH AND CONSULTANCY

1	Is the Department a Recognized Research Centre	A	Yes, Department is a Recognized Research Centre from academic Year 2015.	
2	No. of Research Guides in the Department	A	10	2 professors and 8 Associate professors
3	No. of Research Scholars working for Masters & Ph. D	A	Presently 6 research scholars perusing their Ph.D. in the department. 43 M Tech.	
4	Major/Minor/Other Research Projects	A	PG Projects – 12 Major UG Projects – 8	

\*: Prepared for current academic year



			Industry Projects - 6	
5	Research Papers Published in previous academic year (International/ National )	A	05 International Conference 19 International Journal	Conferences: 24
6	Papers Presented in previous academic year (International/ National/ State )	A	05	
7	Books Published in previous Academic year ( Single Author/ Co Author)	C	*Activity not planned	Need to be initiated
8	Seminars/Workshops/ Training Programme Conducted (International/ National/ State )	C	*Activity not planned	
9	Record of Consultancy in previous academic year	B	Industry Projects - 6	Need to be enhanced
10	Record of MoUs in academic year	A	6	Need to be enhanced
<b>VI-EXTENSION ACTIVITIES</b>				
1	Record of Subject/Department Related Extension Activities	B	Record of activities is maintained by the department	NSS/Training /etc.
2	Name of the NSS PO & Mobile No.		Dr. H. N. Warahkar, 9403316374	

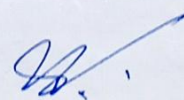
\*: Prepared for current academic year

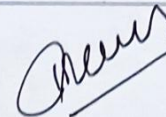
3	NSS Attendance register	A	Maintained at University Level	Actively participants from Mechanical department (36 Students)
4	NSS Activity register	A	Maintained at University Level	Maitained at University Level
5	Name of the NCC ANO & Mobile No.		Dr. M. P. Bhagat, 7588265601	
6	NCC Attendance register	A	Maintained at University Level	Maitained at University Level
7	NCC activity register	A	Maintained at University Level. Annual Activity Report 2017-18 is maintained by the department.	Maintained at University Level
8	Name of the professional Club Coordinator & Mobile No.		SAE Dr. Raju S Pawade Mo. No. - 8698559938 ISHRAE Dr. N Agrawal Mo. No. - 9422472997	
9	Professional Club Activities	A	ISHRAE JOB JUNCTION, AQUEST arranged by ISHRAE Mumbai, JAMBOREE, SQL TEST by SAE India	
10	Name of the Women Empowerment Cell (WEC) Coordinator & Mobile No.	A	Maintained at University Level.	
11	WEC Activities		Nil	

\*: Prepared for current academic year

12	Name of the Eco-Club Coordinator & Mobile No.		Dr. M. Sadaiah	
13	Eco- Club Activities	A	Product driven R & D	Product driven R & D
14	Name of the Consumer Club Coordinator & Mobile No.		*Activity not planned	
15	Consumer Club Activities		*Activity not planned	
16	Innovation Activity club		*Activity not planned	
17	Technology Development and Transfer Cell Activities		*Activity not planned	
18	Any other Club	A	Mechanical Engineering Students Association (MESA)	
<b>IV-LEARNING RESOURCES</b>				
1	Name of the Librarian & Mob. No.		S.P.Vaidya,94233382280	

\*: Prepared for current academic year






2	Access timings of the Library	A	9.30 Am and 5.30 PM. on working days. The library hours are extended during the time of final examinations.	
3	Circulation of Books among Students	A	LIBMAN (Library Software) is used for circulation transaction. Library also runs book bank scheme sponsored by the Govt. of Maharashtra. http://dbatulibrary/opac or http://172.16.5.238/opac) online public access catalogue is used.	Book bank, etc.
4	Availability of Previous years Question papers	A	Last 3 years question papers are available with course files for each course is prepared by every faculty members.	Last Three years question papers are available with department.
5	Availability of model answers of previous examinations	A	Last 3 years question papers and model answers are available with course files for each course is prepared by every faculty members.	Model answers are available with Exam Department.
6	Record of Visitors	A	Maintained by University Library .The library is having open access.	Maintained by Library and Department Library is maintained by Lab Assistant.
7	Status of Library Automation	A	The library is partially computerized with the help of LIBMAN (Library Software).The circulation	LIB MAN Software

\*: Prepared for current academic year

			transaction, Barcode generation, No dues certificates, Reminder etc. work is carried out with the help of this software.	
8	e-Lessons & e-Resources/ e-Journals	B	Various Journals and Resources are subscribed and available online	Need to subscribe more journals.
9	Usage of Internet by students in the Library	A	Library has separate computer section around 20 computers are available with internet connectivity for students for accessing online journals and e-books.	Available
10	Name of SWAYAM Coordinator & Mob. No		Dr. R. S. Pawade, 8698559938	
11	Status of SWAYAM facilities functioning	A	University is recognized as an ACTIVE Local Chapter. EDUSAT hall is used.	
12	Whether SWAYAM schedule is circulated to the students		It is circulated by Dr. R. S. Pawade and Dr. S.L. Nalbalwar	
13	Maintenance of SWAYAM Viewers' Register	A	Partially maintained at University Level by concerned coordinator	

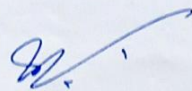
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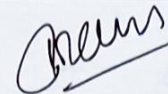
VII-Student Support Activities				
1	Name of the Physical/Sports Director & Mob. No		Dr. P. B. Lokhande, 8600674584	
2	Record of Physical Education/Sports Department	B	Record is maintained at university level	Need to improve
3	Records of events conducted	A	Inter-Collegiate Sports Meet 2017-2018, Inter University Sports meet, Ransangram Inter departmental Sport Event. Dept students' Participation Record maintained. Detailed Record is maintained at university level.	Record is maintained at university level
4	Records of significant achievements in Sports & Games	A	List of winners from Mechanical Engineering department in Sports events is available. Detailed Record is maintained at university level.	Record is maintained at university level
5	Record of Cultural programmes conducted	A	Dept students' Participation Record maintained. Detailed Record is maintained at university level.	Record is maintained at university level
6	Record of any other extra-curricular activities conducted	A	Dept students' Participation Record maintained.	Record is maintained at university level, However extra-curricular activities can be increase by establishing entrepreneurship, robotics, aero-vehicles cells
7	Maintenance of Placement Cell facilities & records		Detailed Record is maintained at university level.	

\*: Prepared for current academic year

8	Record of Student trained and placed	C	03 students placed in this 2017-18 in campus interview.	Need to improve
9	Name of Career Guidance Cell Coordinator & Mob. No		Dr. N. Agrawal	
10	Record of activities Career Guidance	C		Soft skills development programs are conducted at university level.
11	Departmental Review Committee (DRC) Coordinator & Mob. No.		Dr. V.G. Sargade, 9730341788	
12	Implementation of DRC Action Plan		*Activity not planned	
13	IQAC activities & maintenance of records , (Action Plan/Minutes of Meeting/Proof of submission of AQAR to NAAC/Activity register etc)	A	IQAC Minutes of Meeting are available. Proof of submission of AQAR is maintained.	
14	Record of Support by Alumni Association	B	Alumni Association registration is in progress. Department	Records of various Achievements are maintained by HoD office.

\*: Prepared for current academic year






			alumnus, Mr. Nitin Patil (CEO of SNP Software, Mumbai) and his team is looking after this activity	
15	Record of Grievance Redressal Cell / Anti Ragging cell	A	Record of Grievance Redressal Cell and Women's Grievance Redressal Committee is maintained at University level.	Suggestion box can be implemented at department
16	Record of Anti Ragging cell	A	available	Record is maintained at university level
<b>VIII-Basic Amenities</b>				
1	Maintenance of drinking water	A	Some water coolers and filters are available	Water coolers and filters are available in the campus.
2	Maintenance of sanitation	B	Maintained	Need to improve
3	Rest room for women students	A	Available at University level on the ground floor	Available at University level on the ground floor
4	Greenery	A	Maintained at University Level by Estate section	

\*: Prepared for current academic year



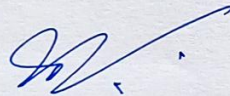
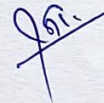
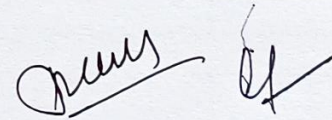
5	Cleanliness	B	Maintained at University Level by Estate section	Need to improve
6	Health Care Facility	A	University has its own Primary Health Centre	First Aid Kit is available with department
7	Canteen	A	Canteen is available to students and faculties.	Available
<b>IX-GOVERNANCE AND LEADERSHIP</b>				
1	Management Committee Register	A	Records of various meetings are maintained by Department office.	Records of various meetings are maintained by HOD office.
2	Functioning of Committees in Administration ( Minutes of meetings)	A	Minutes of BoS and Advisory Committee is maintained.	Various committees are available at department level with participation of faculty, parents and teacher.
3	Awards/Achievements	A	Dr. D. B. Waghmare has received PhD from IIT Kharagpur , Prof. G. S. Warkhade submitted PhD Thesis under QIP at NIT Warangal.	
4	Faculty development initiatives if any	C.		More faculty need to be deputed for international/ national assignments
<b>X - IT INITIATIVES</b>				

\*: Prepared for current academic year

1	E-Class rooms ( Number & Usage)	A	01 Smart Classroom (LH 206) is functioning.	
2	Internet Centre	A	Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level	Computer center with own server is available at University. Connectivity should be improved
3	Computer labs ( No. of labs & working systems)	B	01 Lab (35 Working PCs)	
<b>XI-Best Practices</b>				
1	Record of best/innovative practices by the Department	B	1)Prepared curriculum with equal contribution of academia and industry experts Curriculum path chart with set of stream electives is attached (at department level) 2) Item action Tracker 3) 18 Knowledge area course mapping	Need to improve.
2	Department Activity Register & Hard Copy of AQAR of previous	A	Available	AR are maintained and submitted by department to VC office.

\*: Prepared for current academic year

	year ( should be available with the Principal)			
	Over All Impression on the College	A		Good, However more focus to be given for infrastructure, placements, faculty deputation etc.
			<b>Signatures of Academic Advisors</b> 1 Dr. S. A. Mastud ( Head and Associate Professor, Mechanical Engineering VJTI Mumbai)  2 Dr. P. M. Karande (Associate Professor, Mechanical Engineering VJTI Mumbai)	
	Signature of the HoD			Note: the Format is to be filled by the HoD and submitted to the Academic Audit Team.

\*. Prepared for current academic year

# **ACADEMIC AUDIT**

**(2018 - 2019)**



**Department of Mechanical Engineering,  
Dr. Babasaheb Ambedkar Technological University,  
Lonere - 402 103, Dist- Raigad, Maharashtra**

**Dr. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE  
DEPARTMENT OF MECHANICAL ENGINEERING**

Schedule for External Academic Audit of Mechanical Engineering Department  
on 8<sup>th</sup> November 2019

10.00 am	Arrival of the auditor
10.00 am to 11.00 am	Refreshment Breakfast & Tea
11.00 am to 11.10 am	Introduction of Mechanical Engineering Department by HoD
11.10 am to 12.00 pm	Checking of course files
12.00 pm to 12.30 pm	Verification of format II
12.30 pm to 01.45 pm	Preparation of report
01.45 pm to 02.00 pm	Vote of thanks

**Auditor:**

**1. Dr. S. A. Mastud**

Head and Associate Professor,  
Mechanical Engineering Department, VJTI, Mumbai

**2. Dr. P. M. Karande,**

Associate Professor,  
Mechanical Engineering Department, VJTI, Mumbai

**3. Dr. L. N. Singh**

IQAC Director, Professor & Head, Physics Department

**4. Dr. Mudigonda Sadaiah,**

Professor & Head,  
Mechanical Engineering Department

**Dr. Dhanraj B. Waghmare,**

Departmental Coordinator - Academic Audit

### Academic Audit Summary Sheet

Institution/University Department: Dr. Babasaheb Ambedkar Technological University


Program Title: Mechanical Engineering

Degree Level: Undergraduate


Academic Audit Status: Second Academic Audit : 2018 - 2019

#### Evaluation Results

		Met/not met	% achieved
<b>1</b>	<b>LEARNING OBJECTIVES AND RESOURCES</b>		
1.1	The Faculty member has prepared Course Files as per the learning objectives of the program	Met	90
1.2	The Faculty member has shared his course file with the students of the class through Intranet/ Social media or any other means	Met	90
1.3	The faculty member documented specific benchmarks of his course to account for learning objectives	Met	85
<b>2.</b>	<b>CURRICULUM AND CO-CURRICULUM</b>		
2.1	The faculty member collaborated with other faculty members for effective design, sequence of courses and delivery of course for improvements and documented these efforts appropriately	Met	60
2.2	The faculty member documented a plan for analyzing the course content in terms of achieving program objectives.	Met	60
2.3	The faculty member documented a plan for review of curriculum and co-curriculum comparing those with the best practices elsewhere or in best institutes	Partially Met	60
<b>3</b>	<b>TEACHING AND LEARNING PROCESSES</b>		
3.1	The faculty member analyzed his/her own methods for improving teaching and learning throughout the program and practiced them.	Met	70
3.2	The faculty member developed and promoted effective instructional methods, other than lecturing, so that student achieve the learning objectives.	Met	70
3.3	The faculty member developed materials for achieving student mastery of learning objectives.	Met	75

 Praveen



1  


<b>4.0</b>	<b>STUDENT LEARNING ASSESSMENT</b>		
4.1	The Faculty member has announced the method of continuous assessment at the beginning of the course and followed it throughout.	Met	100
4.2	The faculty member developed techniques, other than written test, for the student learning assessments to improve the program.	Met	90
4.3	The faculty member has documented assessments of student learning	Met	90
4.4	The faculty member has developed measurable indicators of student learning success	Met	80
4.5	The faculty member has developed and documented a continuous improvement plan that incorporates multiple measures to assess student learning and program effectiveness.	Met	75
4.6	The Student has put in his/her own efforts in the learning process from resources outside the Institute.	Met	90
4.7	The students are challenged enough to use their knowledge creatively	Met	85
<b>5.0</b>	<b>QUALITY ASSURANCE</b>		
5.1	There is an existing process in the Institute to understand the parameters of quality of teaching and learning processes	Met	90
5.2	There is an initiative to understand the parameters of quality of teaching and learning processes, if not existing.	Met	90
5.3	There is commitment to making continuous quality improvements in the program a top priority	Met	80
5.4	The performance of students in Internal Assessment and University Examinations is comparable.	Met	100
5.5	There is sufficient feedback obtained from stakeholders in development of academic processes in the College.	Met	100
5.6	There is sufficient evidence of attempts to understand the industries/ Society's need in delivery of appropriate course content to the students	Met	100
<b>6</b>	<b>OVERALL ASSESSMENT</b>		
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 Audit resulted in a candid description of weaknesses in program processes and suggestions for improvements.	Met	85
6.4	There is openness and thoroughness of the faculty members 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 members	Met	90
<b>7</b>	<b>FOLLOW-UP OF PREVIOUS AUDIT</b>		
7.1	An action plan was developed as a result of the previous	Not Met	--

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Academic Audit.			
7.2	There is documented evidence that recommendations made by the previous Academic Audit Team have been considered and, when feasible and appropriate, implemented and tracked.	Not Met	--
7.3	There is documented evidence that the program has been implemented and tracked the progress of and use of results from improvement initiatives cited by the faculty its self-study.	Not Met	--
8	<b>SUPPORT</b>		
8.1	The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources.	Partially Met	80
8.2	The program's operating budget is consistent with the needs of the program.	Met	80
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 rate sufficient to sustain the quality of the program.	Partially Met	75
8.5	The program has a history of placement rate sufficient to sustain high quality of program outcome.	Not Met	10
8.6	The Program has a history of generating support from industries and alumni to sustain itself.	Not Met	--

**Signatures of Academic Advisors**



1. Dr. S. A. Mastud

Head and Associate Professor,  
Mechanical Engineering Department  
VJTI Mumbai



2. Dr. P. M. Karande

Associate Professor,  
Mechanical Engineering  
VJTI Mumbai






Academic Audit of University Department  
Format for submission of Academic Advisors Report (AAR)  
Name of The Department:- Mechanical Engineering

S.No	Item	Grade *	Impression
1	Conduct of Classes	A	Well Conducted
2	Co-Curricular Activities & Extra-Curricular Activities	A	Good participation of students in Co-Curricular and extra-curricular activities.
3	College Activity Register	A	Maintained records properly
4	Departmental Activity Registers	A	Well maintained records of different activities.
5	Discipline in the campus	A	Good discipline.
6	IQAC	A	IQAC is ensuring to enhanced the overall quality.
7	Placement	C	Lots of efforts are required to increase the placement records.
8	Departmental research	A	Good research outcome, more patents can be filed.
9	Career Guidance Cell	C	Separate career guidance activities need to be established in TPO cell.
10	SWAYAM facilities	B	Syndicate room can be used fully to provide self learning courses to students.
11	Library	B	Proper book orientation and book shelves need to be provided on urgent basis.
12	Research & Laboratories	B	Many of the laboratories don't have partitions and proper demarcation. Separate sitting arrangement with writing boards must be established at the earliest.
13	Games & Sports	B	Can do better by motivating students to participate in various games

*Dr. [Signature]*  
*Dr. [Signature]*

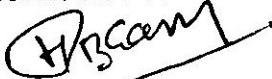
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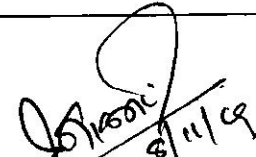
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S.No	Item	Grade *	Impression
14	Humanities and Foundation Courses	B	Need to start.
15	Teacher Evaluation by Students	A	It is in place and well executed, online feedback can be started.
16	Maintenance of Registers	A	Well maintained.
17	Teaching Diaries & Plans	A	Available
18	NCC / NSS	A	Available
19	Women Empowerment Cell	A	Available at university level, can start at department level.
20	Professional Club	A	SAE, ISHRAE are active.
21	Sanitation & drinking water	A	In good condition
22	Cleanliness	B	Need to improve.
23	Functioning of Teachers	A	Good
24	Over All Impression on the College	A	Good
25	Any Other important Observation - Urgent need to improve undergraduate placements - Need to share complete student feedback to concerned faculty - Need to improve basic infrastructure and cleanliness.		

\* A(Good)/B( Satisfactory)/C (poor)

**Signatures of Academic Advisors**

1. Dr. S. A. Mastud   
 Head and Associate Professor,  
 Mechanical Engineering VJTI Mumba

2. Dr. P. M. Karande   
 Associate Professor  
 Mechanical Engineering VJTI Mumbai





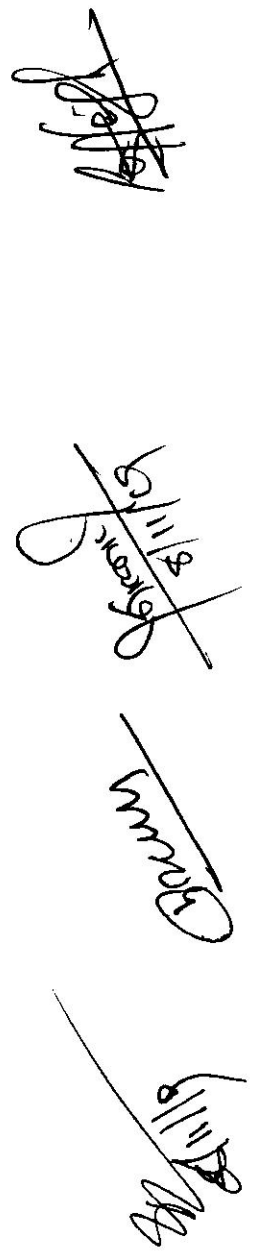
**Dr. Babasaheb Ambedkar Technological University  
Academic Audit of Department**

**Format-I (Department Data)**

**Name of the University Department:- Mechanical Engineering** **Period of Audit: July 2018 – June 2019**

**1-Department Profile**

1	Name of the University Department, Website, email and Ph.No.	Department of Mechanical Engineering, www.dbatu.ac.in, msadaiah@dbatu.ac.in, 9423092195
2	Name of the HoD, email & Mob.No	Dr. Mudigonda Sadaiah, msadaiah@dbatu.ac.in, 9423092195
3	Name of the Vice-Principal, if any, email & Mob. No.	NA
4	Name of the IQAC Coordinator, email & Mob. No.	Dr. L. N. Singh, lnsingh@dbatu.ac.in ,8087369025
5	Year of Establishment & own land if any	1992, Yes
7	NBA accreditation of courses	Not accredited
8	NAAC Grade with Cycle, Accredited Year & CGPA (Status of preparation if not Accredited)	B Grade, 1st Cycle, 2015, 2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb Ambedkar Technological University, Lonere- Maharashtra
9	UGC Recognition (2F & 12 B)	Yes
10	Department Working Hours (if shift system mention details of both shifts & give reasons for shift system)	8.00 A.M. TO 6.00 P.M.
11	No. of Posts Sanctioned: 19	Regular Faculty Working: 12
		Contract Faculty Working: 03
		Adjunct Faculty: 01


  
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I-Department Profile

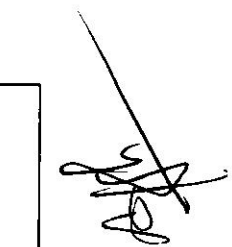
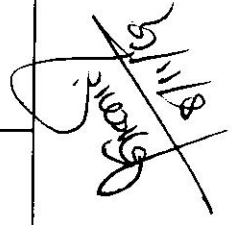

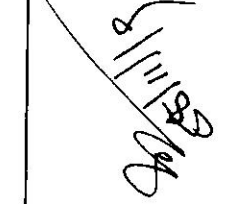
Item	Status ( Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation		Recommendation/Suggestions by Academic Advisors
		Grade		
12	Implementation of Annual Departmental Plan	Annual department plan was prepared well before start of academic Year	A	Well Implemented
13	Departmental Annual Curricular Plans	Curricular plan was prepared well before start of semester.	A	Well Implemented
14	Whether the above two circulated among Students?	Not Circulated (Annual Institutional Plan is available on university Website)	A	Well Implemented
15	Department Activity Register during the academic year	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	A	Well maintained
16	Department Calendar/Department Magazine	Available on DBATU website	A	Well maintained

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8/11/18

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17	Add-on Courses (Department-wise) completed during previous year	Planned for next academic year	C	Need to be enhanced
18	Add-on Courses (Department-wise) during current academic year	It is Planned to conduct certification courses in the current academic year. Such as course recommended by NASSCOM, SWYAM, NSF	B	Need to be enhanced
19	Coverage of Syllabus (Average Percentage)	80% of syllabus is covered by instructional mode 20% of syllabus is covered in self study mode	A	Well Implemented
20	Teaching of Humanities & Foundation Courses	Implemented as per guidelines by UGC/AICTE at First Year Engineering	A	Incorporated as per UGC/AICTE guidelines
21	No. of New UG & PG Courses introduced this year:	Nil	C	Need to be enhanced
22	Maintenance of Student Attendance Registers	Maintained. for each semester e-attendance record is available.	A	Well Maintained

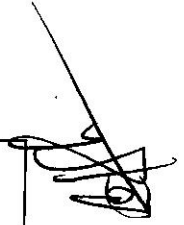
  
  
  


**III-TEACHING, LEARNING & EVALUATION**

23	Teaching Diaries & Teaching Plans in Prescribed Formats	Teaching Plan and Course files are maintained by individual faculty members.	A	Available
24	Co-Curricular Activities (Department level)	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	A	Cynosure, SAE, ISHRAE, etc.
25	Academic Competitions (University Level & Above)	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	A	Cynosure, SAE, ISHRAE, etc.
26	Conduct of Internal Examinations-Unit, Half-Yearly and Prefinal	Continuous assessment is carried out by the individual faculty members. Mid test is conducted by the examination department. Record of Continuous assessment is available.	A	Routinely done
27	Subject wise result analysis	Record is available.	B	Need to systematically improve
28	Teacher wise result analysis	Record is available.	B	Need to systematically improve
29	Remedial Classes	Planned for next academic year	C	Summer refresh courses, GATE classes and


  
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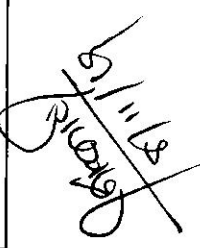
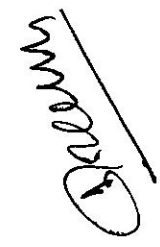

					make up classes can be conducted.
30	Record of Evaluation of Teachers by Students	Feedback on Teachers by the students is taken and analysis is carried out.	A		Well Implemented
<b>IV-RESEARCH AND CONSULTANCY</b>					
31	Is the Department a Recognized Research Centre	Yes, Department is a Recognized Research Centre.	A		
32	No. of Research Guides in the Department	9	A		3 professors and 7 Associate professors
33	No. of Research Scholars working for Masters & Ph. D	Ph. D - 27 Masters - 38	A		
34	Major/Minor/Other Research Projects	Nil	C		DST,AICTE,DRDO,BARC BRNS,ISRO,MHRD sponsored projects need to be received
35	Research Papers Published in previous academic year (International/National)	International Conference - 4 International Journal - 8 National Conferences - 6 Conferences: 10	A		
36	Papers Presented in previous academic year (International/National/ State)	10	A		

  
 Dr. M. S. Prasad  
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 Dr. M. S. Prasad  
 11/11/19

37	Books Published in previous Academic year ( Single Author/ Co Author)	One book is published	B	Need to be improved
38	Seminars/Workshops/ Training Programme Conducted (International/ National/ State )	Workshop on Advanced welding technique, Research Methodology Techniques and software etc..	B	Need to be improved
39	Record of Consultancy in previous academic year	Nil	C	Need to be enhanced
40	Record of MoUs in previous academic year	1 (Alicon Castalloy Ltd, Pune)	B	Need to be enhanced

**VI-EXTENSION ACTIVITIES**

41	Record of Subject/Department Related Extension Activities	Record of few activities is maintained by the department	A	NSS/Training / etc.
42	Name of the NSS PO & Mobile No.	H. N. Warahkar, 9403316374		
43	NSS Attendance register	Maintained at University Level	A	Actively participants from Mechanical department (36 Students)
44	NSS Activity register	Maintained at University Level	A	Maintained at University Level






45	Name of the NCC ANO & Mobile No.	M. P. Bhagat, 7588265601			
46	NCC Attendance register	Maintained at University Level	A		Maintained at University Level
47	NCC activity register	Maintained at University Level. Annual Activity Report 2017-18 is maintained by the department.	A		Maintained at University Level
48	Name of the Professional Club Coordinator & Mobile No.	SAE Dr. R. S. Pawade Mo. No. - 8698559938 ISHRAE Dr. N Agrawal Mo. No. - 9422472997			
49	Professional Club Activities	ISHRAE Quiz, Slambok Competition, Mock Interview, Tech-click, etc.	A		Got Four awards in SAE and ISHRAE
50	Name of the Women Empowerment Cell (WEC) Coordinator & Mobile No.	Prof. Laddha			
51	WEC Activities	Maintained at University Level	A		Maintained at University Level
52	Name of the Eco-Club Coordinator & Mobile No.	Dr. M. Sadaiah			
53	Eco-Club Activities	Technical Project Under Community Service (19 Projects)			Product driven R & D

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54	Name of the Consumer Club Coordinator & Mobile No.	Mrs. M. U. Sakate			
55	Consumer Club Activities	Maintained at University level	A		
56	Any other Club	Mechanical Engineering Students Association (MESA)	A		MESA, X'ELERATE
<b>IV-LEARNING RESOURCES</b>					
57	Name of the Librarian & Mob. No	S.P.Vaidya,94233382280			
58	Access timings of the Library	9.30 Am and 5.30 PM. on working days. The library hours are extended during the time of final examinations.	A		
59	Circulation of Books among Students	LIBMAN (Library Software) is used for circulation transaction. Library also runs book bank scheme sponsored by the Govt. of Maharashtra. <a href="http://dbarulibrary/opac">http://dbarulibrary/opac</a> or <a href="http://172.16.5.238/opac">http://172.16.5.238/opac</a> online public access catalogue is used.	B		Book bank, etc.
60	Availability of Previous years Question papers	Last 3 years question papers are available with course files for each course is prepared by every faculty members.	A		Last Three years question papers are available with department.


  
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61	Record of Visitors	Maintained by University Library The library is having open access.	A	Maintained by Library and Department Library is maintained by Lab Assistant.
62	Status of Library Automation	The library is partially computerized with the help of LIBMAN (Library Software). The circulation transaction, Barcode generation, No dues certificates, Reminder etc. work is carried out with the help of this software.	A	LIB MAN Software
63	e-Lessons & e- Resources/ e-journals	Various Journals and Resources are subscribed and available online	B	Need to subscribe more journals.
64	Usage of Internet by students in the Library	Library has separate computer section around 20 computers are available with internet connectivity for students for accessing online journals and e- books.	A	Available
65	Name of SWAYAM Coordinator & Mob. No	Dr. R. S. Pawade, 8698559938		
66	Status of SWAYAM facilities functioning	University is recognized as an ACTIVE Local Chapter. EDUSAT hall is used.	A	16 students registered and successfully completed online courses
67	Whether SWAYAM schedule is circulated to the students	It is circulated by Dr. R. S. Pawade and Dr. S. L. Nalbalwar	A	
68	Maintenance of SWAYAM Viewers'	Partially maintained at University Level by concerned coordinator		






Register				
<b>VII-Student Support Activities</b>				
69	Name of the Physical/Sports Director & Mob.No	Dr. P. B. Lokhande, 8600674584	A	
70	Record of Physical Education/Sports Department	Record is maintained at university level	B	Need to improve
71	Records of events conducted	Inter-Collegiate Sports Meet 2018-2019, Inter University Sports meet, Ransangram Inter departmental Sport Event. Dept students' Participation Record maintained. Detailed Record is maintained at university level.	A	Record is maintained at university level
72	Records of significant achievements in Sports & Games	List of winners from mechanical department in Sports events is available. Detailed Record is maintained at university level.	A	Record is maintained at university level
73	Record of Cultural programmes conducted	Dept students' Participation Record maintained. Detailed Record is maintained at university level.	B	Record is maintained at university level
74	Record of any other extra-curricular activities conducted	Dept students' Participation Record maintained.	A	Record is maintained at university level, However extra-curricular activities can be increase by establishing entrepreneurship,

					robotics, aero-vehicles cells
75	Maintenance of Placement Cell facilities & records	Detailed Record is maintained at university level.		B	Need to improve
76	Record of Student trained and placed	No students placed in this 2018-19 in campus interview - 10		B	Need to improve
77	Name of Career Guidance Cell Coordinator & Mob.No	Dr. N. Agrawal 9422472997			
78	Record of activities Career Guidance	Few workshops on start-ups conducted. Record is available.		A	Soft skills development programs are conducted at university level.
79	Departmental Review Committee (DRC) Coordinator & Mob. No.	Dr. V.G. Sargade, 9730341788			
80	Implementation of DRC Action Plan	*Activity not planned		C	
81	IQAC activities & maintenance records , (Action Plan/Minutes of Meeting/Proof of submission of AQAR to NAAC/Activity register etc)	IQAC Minutes of Meeting are available. Proof of submission of AQAR is maintained.		A	

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82	Record of Support by Alumni Association	Alumni Association registration is in progress	B	Records of various Achievements are maintained by HoD office.
83	Record of Grievance Redressal Cell / Anti Ragging cell	Record of Grievance Redressal Cell and Women's Grievance Redressal Committee is maintained at University level.	B	Suggestion box can be implemented at department
84	Record of Anti Ragging cell	Available	A	Record is maintained at university level
<b>VIII- Basic Amenities</b>				
85	Maintenance of drinking water	Sufficient water coolers and filters are available	A	Water coolers and filters are available in the campus.
86	Maintenance of sanitation	Maintained	B	Need to improve
87	Rest room for women students	Available at University level on the ground floor	A	available at every floor
88	Greenery	Maintained at University Level by Estate section	A	University workers are appointed for the purpose.

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Greenery

5/11/19

N

89	Cleanliness	Maintained at University Level by Estate section	A	University workers are appointed for the purpose
90	Health Care Facility	University has its own primary health care centre	A	First Aid Kit is available with department
91	Canteen	Canteen is available to students and faculties.	A	Available
<b>IX-GOVERNANCE AND LEADERSHIP</b>				
92	Management Committee Register	Records of various meetings are maintained by Department office.	A	Records of various meetings are maintained by HOD office.
93	Functioning of Committees in Administration (Minutes of meetings)	Minutes of BoS and Advisory Committee is maintained.	A	Various committees are available at department level with participation of faculty, parents and teacher.
94	Awards/Achievements	For the Online course of NPTEL Mr. Sameer Ghanavat secured a		Need to be improved


		spot among top 5% at the national level of the online course.	B	
95	Faculty development initiatives if any	Dr. G. S. Warkhade awarded PhD under QIP by NIT Warangal..	A	
<b>X - IT INITIATIVES</b>				
96	E-Class rooms ( - Number & Usage)	01 Smart Classroom (LH 206) is functioning.	A	
97	Internet Centre	Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level	A	Computer center with own server is available at University. Connectivity should be improved
98	Computer labs ( No. of labs & working systems)	01 Labs (35 Working PCs)	B	Need to be improved
<b>XI-Best Practices</b>				
99	Record of best/innovative practices by the Department	1) Prepared curriculum with equal contribution of academia and industry experts Curriculum pathchart with set of stream electives is attached (at department level) 2) 18 Knowledge area course mapping	A	Workshop on recent trends, Community Projects etc. are conducted by department.




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100	Department Activity Register & Hard Copy of AQAR of previous year ( should be available with the Principal)	Available	A	Annual Report are maintained and submitted by department to VC office.
		<p><b>Signatures of Academic Advisors</b></p> <p> Dr. S. A. Mastud ( Head and Associate Professor, Mechanical Engineering VJTI Mumbai)</p> <p> 2 Dr. P. M. Karate (Associate Professor, Mechanical Engineering VJTI Mumbai)</p>		
		<p><b>Signature of the HoD</b></p> <p></p>		
		<p>Note: the Format is to be filled by the HoD and submitted to the Academic Audit Team.</p>		

**Dr. Babasaheb Ambedkar Technological University**

**Academic Audit of Department**

**Format for submission of Academic Advisors Report (AAR)**

**Name of the University Department:- Mechanical Engineering Period of Audit: 2018 - 2019**

**I-Department Profile**

1	Name of the University Department, Website, email and Ph.No.	Department of Mechanical Engineering, www.dbatu.ac.in, msadaiah@dbatu.ac.in, 9422660196		
2	Name of the HoD, email & Mob.No	Dr. M. Sadaiah, msadaiah@dbatu.ac.in, 9422660196		
3	Name of the Vice-Principal, if any, email & Mob. No.	NA		
4	Name of the IQAC Coordinator, email & Mob. No.	Dr. L. N. Singh, lnsingh@dbatu.ac.in, 8087369025		
5	Year of Establishment & own land if any	1992, Yes		
7	NBA accreditation of courses	Not accredited		
8	NAAC Grade with Cycle, Accredited Year & CGPA (Status of preparation if not Accredited)	B Grade, 1st Cycle, 2015, 2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb Ambedkar Technological University, Lonere- Maharashtra		
9	UGC Recognition (2F & 12 B)	Yes		
10	Department Working Hours( if shift system mention details of both shifts & give reasons for shift system)	8.00 A.M. TO 6.00 P.M.		
11	No. of Posts Sanctioned: 10	Regular Faculty Working: 12	Contract Faculty Working: 06	Visiting Faculty: 01

\*: Prepared for current academic year

<b>I-Department Profile</b>				
	Item	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation		Recommendation/Suggestions by Academic Advisors
		Grade	Actual Status	
1	Implementation of Annual Departmental Plan	A	Annual department plan was prepared well before start of academic Year	
2	Departmental Annual Curricular Plans	A	Curricular plan was prepared.	
3	Department Activity Register for the Academic Year	A	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	
4	Departmental Activity Registers	A	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	
5	Add-on Courses (Department-wise) completed during previous year	C	Added in syllabi	
6	Add-on Courses (Department-wise) during current academic year	B	Implemented Product Design Engineering, NAASCOM	

\*: Prepared for current academic year

7	Coverage of Syllabus (Average Percentage)	A	80% of syllabus is covered by instructional mode 20% of syllabus is covered in self study mode	
8	Teaching of Humanities & Foundation Courses	A	Implemented as per guidelines by UGC/AICTE at First Year Engineering	
9	Teaching of Environmental Science and Ethics	A	Implemented as per guidelines by UGC/AICTE at First Year Engineering	
10	No. of New UG & PG Courses introduced this year.	C	Nil	
11	Maintenance of Student Attendance Registers	A	Maintained. For each semester e-attendance record is available.	
12	Feedback forms on Curriculum from students	A	Feedback forms are filled by students at the end of each semester	
<b>III-TEACHING, LEARNING &amp; EVALUATION</b>				
1	Teaching Diaries & Teaching Plans in Prescribed Formats	A	Teaching Plan and Course files are maintained by individual faculty members.	
2	Co-Curricular Activities (Department level)	A	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	

\*: Prepared for current academic year

3	Academic Competitions (University Level & Above)	A	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	
4	Conduct of Internal Examinations	A	Continuous assessment is carried out by the individual faculty members. Mid test is conducted by the examination department. Record of Continuous assessment is available.	
5	Subject wise result analysis	B	Record is available.	
6	Teacher wise result analysis	B	Record is available.	
7	Remedial Classes	C	*Activity not planned	
8	Record of Evaluation of Teachers by Students	A	Feedback on Teachers by the students is taken and analysis is carried out.	

\*: Prepared for current academic year

IV-RESEARCH AND CONSULTANCY				
1	Is the Department a Recognized Research Centre	A	Yes, Department is a Recognized Research Centre from academic Year 2015.	
2	No. of Research Guides in the Department	A	09	
3	No. of Research Scholars working for Masters & Ph. D	A	Ph. D – 27 Masters - 38	
4	Major/Minor/Other Research Projects	C	Nil	
5	Research Papers Published in previous academic year (International/ National)	A	International Conference - 4 International Journal - 8 National Conferences - 6	
6	Papers Presented in previous academic year (International/ National/ State)	A	10	
7	Books Published in previous Academic year ( Single Author/ Co Author)	B	One book is published	
8	Seminars/Workshops/ Training Programme Conducted (International/ National/ State)	A	Workshop on Advanced welding technique, Research Methodology Techniques and software etc..	

\*: Prepared for current academic year

6	NCC Attendance register	A	Maintained at University Level
7	NCC activity register	A	Maintained at University Level. Annual Activity Report 2018-19 is maintained by the department.
8	Name of the professional Club Coordinator & Mobile No.	A	SAE Dr. R. S. Pawade Mo. No. - 8698559938 ISHRAE Dr. N Agrawal Mo. No. - 9422472997
9	Professional Club Activities	A	ISHRAE Quiz, Slambook Competition, Mock Interview, Tech-click, etc.
10	Name of the Women Empowerment Cell (WEC) Coordinator & Mobile No.		Prof. Laddha
11	WEC Activities		Maintained at University Level
12	Name of the Eco-Club Coordinator & Mobile No.		Dr. M. Sadaiah

\*: Prepared for current academic year

13	Eco- Club Activities	A	Technical Project Under Community Service(19 Projects)	
14	Name of the Consumer Club Coordinator & Mobile No.		Mrs. M. U. Sakate	
15	Consumer Club Activities	C	*Activity not planned	
16	Innovation Activity club	C	*Activity not planned	
17	Technology Development and Transfer Cell Activities		*Activity not planned	
18	Any other Club	A	Mechanical Engineering Students Association	
<b>IV-LEARNING RESOURCES</b>				
1	Name of the Librarian & Mob.No		S.P.Vaidya,9423338280	

\*: Prepared for current academic year



2	Access timings of the Library	A	9.30 Am and 5.30 PM. on working days. The library hours are extended during the time of final examinations.	
3	Circulation of Books among Students	B	LIBMAN (Library Software) is used for circulation transaction. Library also runs book bank scheme sponsored by the Govt. of Maharashtra. <a href="http://dbatulibrary/opac">http://dbatulibrary/opac</a> or <a href="http://172.16.5.238/opac">http://172.16.5.238/opac</a> online public access catalogue is used.	
4	Availability of Previous years Question papers	B	Last 3 years question papers are available with course files for each course is prepared by every faculty members.	
5	Availability of model answers of previous examinations	A	Last 3 years question papers and model answers are available with course files for each course is prepared by every faculty members.	
6	Record of Visitors	A	Maintained by University Library The library is having open access.	
7	Status of Library Automation	A	The library is partially computerized with the help of LIBMAN (Library Software). The circulation transaction, Barcode generation, No dues certificates, Reminder	

\*: Prepared for current academic year

			etc. work is carried out with the help of this software.	
8	e-Lessons & e-Resources/ e-Journals	A	Various Journals and Resources are subscribed and available online	
9	Usage of Internet by students in the Library	A	Library has separate computer section around 20 computers are available with internet connectivity for students for accessing online journals and e-books.	
10	Name of SWAYAM Coordinator & Mob. No	A	Dr.R.S.Pawade,8698559938	
11	Status of SWAYAM facilities functioning	A	University is recognized as an ACTIVE Local Chapter. EduSat hall is used.	
12	Whether SWAYAM schedule is circulated to the students	A	It is circulated by Dr.R. S. Pawade and Dr. S.L. Nalbalwar	
13	Maintenance of SWAYAM Viewers' Register	A	16 students registered and successfully completed online courses	

\*: Prepared for current academic year

9	Record of Consultancy in previous academic year	C	* Activity not planned	
10	Record of MoUs in academic year	B	1 (Alicon Castalloy Ltd, Pune)	
<b>VI-EXTENSION ACTIVITIES</b>				
1	Record of Subject/Department Related Extension Activities	B	Record of few activities is maintained by the department	
2	Name of the NSS PO & Mobile No.	A	Dr. H. N. Warahkar, 9403316374	
3	NSS Attendance register	A	Maintained at University Level	
4	NSS Activity register	A	Maintained at University Level	
5	Name of the NCC ANO & Mobile No.	A	Dr. M. P. Bhagat, 7588265601	

\*: Prepared for current academic year

VII-Student Support Activities				
1	Name of the Physical/Sports Director & Mob.No		Dr. P. B. Lokhande, 8600674584	
2	Record of Physical Education/Sports Department	A	Record is maintained at university level	
3	Records of events conducted	A	Inter-Collegiate Sports Meet 2018-2019, Inter University Sports meet, Ransangram Inter departmental Sport Event. Dept students' Participation Record maintained. Detailed Record is maintained at university level.	
4	Records of significant achievements in Sports & Games	A	List of winners from Mechanical Engineering department in Sports events is available. Detailed Record is maintained at university level.	
5	Record of Cultural programmes conducted	A	Dept students' Participation Record maintained. Detailed Record is maintained at university level.	
6	Record of any other extra-curricular activities conducted	A	Dept students' Participation Record maintained.	
7	Maintenance of Placement Cell facilities & records	A	Detailed Record is maintained at university level.	

\*: Prepared for current academic year

8	Record of Student trained and placed	A	No students placed in this 2018-19 in campus interview - 10.
9	Name of Career Guidance Cell Coordinator & Mob.No	A	Dr. N. Agrawal 9422472997
10	Record of activities Career Guidance	A	Few workshops on start-ups conducted. Record is available.
11	Departmental Review Committee (DRC) Coordinator & Mob. No.	A	Dr. V.G. Sargade, 9730341788
12	Implementation of DRC Action Plan	C	*Activity not planned
13	IQAC activities & maintenance of records ( Action Plan/Minutes of Meeting/Proof of submission of AQAR to NAAC/Activity register etc)	A	IQAC Minutes of Meeting are available. Proof of submission of AQAR is maintained.
14	Record of Support by Alumni Association	C	Alumni Association registration is in progress.
15	Record of Grievance Redressal Cell / Anti	B	Record of Grievance Redressal Cell and Women's Grievance

\*: Prepared for current academic year

	Ragging cell		Redressal Committee is maintained at University level.	
16	Record of Anti Ragging cell	A	Available at University Level	
<b>VIII-Basic Amenities</b>				
1	Maintenance of drinking water	A	Sufficient water coolers and filters are available	
2	Maintenance of sanitation	B	Maintained	
3	Rest room for women students	A	Available at University level on the ground floor	
4	Greenery	A	Maintained at University Level by Estate section	
5	Cleanliness	A	Maintained at University Level by Estate section	
6	Health Care Facility	A	University has its own Primary Health Care Centre	

\*: Prepared for current academic year

7	Canteen	A	Canteen is available to students and faculties.	
<b>IX-GOVERNANCE AND LEADERSHIP</b>				
1	Management Committee Register	A	Records of various meetings are maintained by Department office.	
2	Functioning of Committees in Administration ( Minutes of meetings)	A	Minutes of BoS and Advisory Committee is maintained.	
3	Awards/Achievements	B	For the Online course of NPTEL, Mr. Sameer Ghanavat secured a spot among top 5% at the national level of the online course.	
4	Faculty development initiatives if any	A	Dr. G. S. Warkhade awarded PhD under QIP by NIT Warangal.	
<b>X - IT INITIATIVES</b>				
1	E-Class rooms ( Number & Usage)	A	01 Smart Classroom (L11 206) is functioning.	

\*: Prepared for current academic year



2	Internet Centre	A	Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level	
3	Computer labs ( No. of labs & working systems)	B	01 Labs (Working PCs)	
<b>XI-Best Practices</b>				
1	Record of best/innovative practices by the Department	B	1)Prepared curriculum with equal contribution of academia and industry experts Curriculum pathchart with set of stream electives is attached (at department level) 2) 18 Knowledge area course mapping	
2	Department Activity Register & Hard Copy of AQAR of previous	A	Available	

\*: Prepared for current academic year



	year (should be available with the Principal)			
3	Over All Impression on the College	A	Available	Annual Report are maintained and submitted by department to VC office.
			<b>Signatures of Academic Advisors</b>  1. Dr. S. A. Mastud ( Head and Associate Professor, Mechanical Engineering VJTI Mumbai)  2. Dr. P. M. Karande (Associate Professor, Mechanical Engineering VJTI Mumbai)	
	<b>Signature of the HoD</b>			Note: the Format is to be filled by the HoD and submitted to the Academic Audit Team.

\*: Prepared for current academic year

			mapping		
2	Department Activity Register & Hard Copy of AQAR of previous year (should be available with the Principal)	A	Available		
3	Over All Impression on the College	A	Available		Annual Report are maintained and submitted by department to VC office.
			Signatures of Academic Advisors	 1. Dr. S. A. Mastud (Head and Associate Professor, Mechanical Engineering VJTI (Mumbai))	
			Signature of the HoD	 2. Dr. P. M. Karande (Associate Professor, Mechanical Engineering VJTI Mumbai)	
					Note: the Format is to be filled by the HoD and submitted to the Academic Audit Team.

\*: Prepared for current academic year

# **ACADEMIC AUDIT**

**(2019 - 2020)**



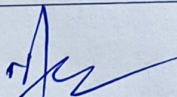
**Department of Mechanical Engineering,  
Dr. Babasaheb Ambedkar Technological University,  
Lonere - 402 103, Dist- Raigad, Maharashtra**

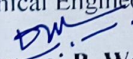
**Dr. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**Academic Audit for AY 2019-20 & 2020-21**

Schedule for External Academic Audit of Mechanical Engineering Department  
Date: 28 and 29 October 2021, Venue: CAD CAM Lab

<b>Date: 28<sup>th</sup> October, 2021 (Academic Year 2019 – 2020)</b>	
2.30 pm	Arrival of the Experts
2.30 pm to 2.50 pm	Brief outline, introduction by HoD
2.50 pm to 4.00 pm	Audit stage I, format I
4.15 pm to 5.15 pm	Audit stage II, format II (Please bring the related documents, course files in hard copy or soft copy)
5.15 pm to 5.45 pm	Preparation of report
<b>Date: Day 2, 29<sup>th</sup> October, 2021 (Academic Year 2020 – 2021)</b>	
10.30 am	Resuming of activity
10.30 am to 11.30 am	Audit stage I, format I
11.30 am to 12.15 am	Audit stage II, format II (Please bring the related documents, course files in hard copy or soft copy)
12.15 am to 12.45 noon	Preparation of report
12.45 noon to 1.00 pm	Concluding remarks by the Experts
1.00 pm to 1.10 pm	Vote of thanks
<b>Auditors:</b>	
<b>Dr. B. S. Gawali</b> Professor, Dept of Mechanical Engineering WCE Sangali	<b>Dr. Debdatta Ratna (Scientist F)</b> HoD Polymer Science & Technology Naval Materials Research Laboratory DRDO, Ambernath (East)

  
**Dr. Neeraj Agrawal**  
Professor & Head,  
Mechanical Engineering Department

  
**Dr. Dhanraj B. Waghmare, Mr. Prashant Agwane**  
Departmental Coordinator - Academic Audit

## Academic Audit Summary Sheet

Institution/University Department: Dr. Babasaheb Ambedkar Technological University

Program Title: Mechanical Engineering

Degree Level: **Undergraduate**

Academic Audit Status: **18-19 has been completed**

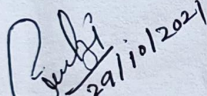
### Evaluation Results

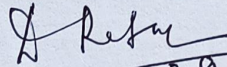
		<b>Met/not met</b>	<b>% achieved</b>
<b>1</b>	<b>LEARNING OBJECTIVES AND RESOURCES</b>		
1.1	The Faculty member has prepared Course Files as per the learning objectives of the program	Met	95
1.2	The Faculty member has shared his course file with the students of the class through Intranet/ Social media or any other means	Met	80
1.3	The faculty member documented specific benchmarks of his course to account for learning objectives	Met	85
<b>2.</b>	<b>CURRICULUM AND CO-CURRICULUM</b>		
2.1	The faculty member collaborated with other faculty members for effective design, sequence of courses and delivery of course for improvements and documented these efforts appropriately	Met	60
2.2	The faculty member documented a plan for analyzing the course content in terms of achieving program objectives	Met	65
2.3	The faculty member documented a plan for review of curriculum and co-curriculum comparing those with the best practices elsewhere or in best institutes	Met	65
<b>3</b>	<b>TEACHING AND LEARNING PROCESSES</b>		
3.1	The faculty member analyzed his/her own methods for improving teaching and learning throughout the program and practiced them.	Met	75
3.2	The faculty member developed and promoted effective instructional methods, other than lecturing, so that student achieve the learning objectives.	Met	75
	The faculty member developed materials for achieving student mastery of learning objectives.	Met	85
<b>4.0</b>	<b>STUDENT LEARNING ASSESSMENT</b>		
4.1	The Faculty member has announced the method of continuous assessment at the beginning of the course and followed it throughout.	Met	100
4.2	The faculty member developed techniques, other than written	Met	85

	test, for the student learning assessments to improve the program.		
4.3	The faculty member has documented assessments of student learning	Met	90
4.4	The faculty member has developed measurable indicators of student learning success	Met	80
4.5	The faculty member has developed and documented a continuous improvement plan that incorporates multiple measures to assess student learning and program effectiveness.	Met	70
4.6	The Student has put in his/her own efforts in the learning process from resources outside the Institute.	Met	75
4.7	The students are challenged enough to use their knowledge creatively	Met	75
<b>5.0</b>	<b>QUALITY ASSURANCE</b>		
5.1	There is an existing process in the Institute to understand the parameters of quality of teaching and learning processes	Met	80
5.2	There is an initiative to understand the parameters of quality of teaching and learning processes, if not existing.	Met	80
5.3	There is commitment to making continuous quality improvements in the program a top priority	Met	70
5.4	The performance of students in Internal Assessment and University Examinations is comparable.	Met	100
5.5	There is sufficient feedback obtained from stakeholders in development of academic processes in the College.	Met	100
5.6	There is sufficient evidence of attempts to understand the industries/ Society's need in delivery of appropriate course content to the students	Met	100
<b>6</b>	<b>OVERALL ASSESSMENT</b>		
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	80
6.3	The Audit resulted in a candid description of weaknesses in program processes and suggestions for improvements.	Met	80
6.4	There is openness and thoroughness of the faculty members 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 members	Met	85
<b>7</b>	<b>FOLLOW-UP OF PREVIOUS AUDIT</b>		
7.1	An action plan was developed as a result of the previous Academic Audit.	Met	70
7.2	There is documented evidence that recommendations made by the previous Academic Audit Team have been considered and, when feasible and appropriate, implemented and tracked.	Met	70
7.3	There is documented evidence that the program has been	Met	95

	implemented and tracked the progress of and use of results from improvement initiatives cited by the faculty its self-study.		
<b>8</b>	<b>SUPPORT</b>		
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 rate sufficient to sustain the quality of the program.	Met	100
8.5	The program has a history of placement rate sufficient to sustain high quality of program outcome.	Met	40
8.6	The Program has a history of generating support from industries and alumni to sustain itself.	Met	80

**Signatures of Academic Advisors**

  
**Dr. B. S. Gawali**  
 Professor,  
 Dépt of Mechanical Engineering  
 WCE Sangali

  
**Dr. Debdatta Katna (Scientist F)**  
 HoD  
 Polymer Science & Technology  
 Naval Materials Research Laboratory  
 DRDO, Ambernath (East)

Academic Audit of University Department  
 Format for submission of Academic Advisors Report (AAR)  
 Name of The Department:- Mechanical Engineering

S.No	Item	Grade *	Impression
1	Conduct of Classes	A	Well Conducted On Line and Off line mode
2	Co-Curricular Activities & Extra-Curricular Activities	A	Good participation of students in Co-Curricular and extra-curricular activities through SAE, ISHRAE, MESA. Cynosure etc
3	College Activity Register	A	Record is Maintained
4	Departmental Activity Registers	A	Well maintained records of different activities
5	Discipline in the campus	A	100% disciplined campus culture
6	IQAC	A	In place, IQAC is ensuring to enhanced the overall quality
7	Placement	C	Efforts are taken to enhance the placement. However, holistic efforts are required to make the students industry ready. Never the less, overall slowdown in core industries also affecting the placement globally
8	Departmental research	A	Effective research outcome in terms of publications however patents filing should be improved.
9	Career Guidance Cell	B	Separate career guidance activities need to be established in TPO cell
10	SWAYAM facilities	A	Syndicate room can be used fully to provide self-learning courses to students. However, students do online SWAYAM courses by their own as a part of curriculum.
11	Library	<del>B</del> <sup>C</sup>	Proper book orientation and book shelves need to be provided on urgent basis.
12	Research & Laboratories	<del>B</del> <sup>C</sup>	Many of the laboratories don't have partitions and proper demarcation. Separate sitting arrangement with writing boards must be established at

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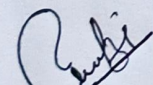
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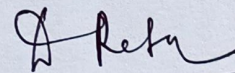
			the earliest. However, there is good research facility and culture.
13	Games & Sports	B	Students are participated in intra and inter sports competition however, can do better by motivating students to participate in various games
<b>S.No</b>	<b>Item</b>	<b>Grade *</b>	<b>Impression</b>
14	Humanities and Foundation Courses	A	Included
15	Teacher Evaluation by Students	A	It is in place and well executed, online feedback can be started.
16	Maintenance of Registers	A	Well maintained.
17	Teaching Diaries & Plans	A	Available
18	NCC / NSS	A	Available
19	Women Empowerment Cell	A	Available at university level
20	Professional Club	A	SAE, ISHRAE are active.
21	Sanitation & drinking water	A	In good condition
22	Cleanliness	A	satisfactory
23	Functioning of Teachers	A	Good
24	Over All Impression on the College	A	Good
	Any Other important Observation - Need to improve with respect to infrastructure, placement		

\* A(Good)/B(Satisfactory)/C (poor)


**Signatures of Academic Advisors**



**Dr. B. S. Gawali**  
Professor,  
Dept of Mechanical Engineering  
WCE Sangali



**Dr. Debdatta Ratna (Scientist F)**  
HoD  
Polymer Science & Technology  
Naval Materials Research Laboratory  
DRDO, Ambemath (East)

29/10/21 

**Dr. Babasaheb Ambedkar Technological University**

**Academic Audit of Department**

**Format-I (Department Data)**

**Name of the University Department:- Mechanical Engineering Period of Audit: July 2019- June 2020**

**I-Department Profile**

1	Name of the University Department, Website, email and Ph. No.	Department of Mechanical Engineering, www.dbatu.ac.in, registrar@dbatu.ac.in, 02140 275142		
2	Name of the HoD, email & Mob.No	Dr. Neeraj Agrawal , neerajagrawal@dbatu.ac.in, 9422472997		
3	Name of the Vice-Principal, if any, email & Mob. No.	NA		
4	Name of the IQAC Coordinator, email & Mob. No.	Dr. S. L. Nalbalwar, slnalbalwar@dbatu.ac.in ,8793814621		
5	Year of Establishment & own land if any	1992, Yes		
7	NBA accreditation of courses	Not accredited		
8	NAAC Grade with Cycle, Accredited Year & CGPA ( Status of preparation if not Accredited)	B Grade, 1st Cycle, 2015, 2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb Ambedkar Technological University, Lonere-Maharashtra		
9	UGC Recognition (2F & 12 B)	Yes		
10	Department Working Hours( if shift system mention details of both shifts & give reasons for shift system)	8.00 A.M. TO 6.00 P.M.		
11	No. of Posts Sanctioned: 19	Regular Faculty Working: 12	Contract Faculty Working:03	Adjunct Faculty:01

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I-13 →  
I-14 -

I-Department Profile

	Item	Status ( Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B( Satisfactory)/C (poor) after Observation	Recommendation/Suggestions by Academic Advisors	
			Grade		
12	Implementation of Annual Departmental Plan	Annual department plan was prepared well before start of academic Year	A	Well Implemented	Yes
13	Departmental Annual Curricular Plans	Curricular plan was prepared well before start of semester	A	Well Implemented	Yes
14	Whether the above two circulated among Students?	Annual Institutional Plan is available on university Website	A	Well Implemented	Yes
15	Department Activity Register during the academic year	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	A	Well maintained	Yes
16	Department Calendar/Department Magazine	Available on University website	A	Well maintained	Yes

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17	Add-on Courses (Department-wise) completed during previous year	PDE I subject is being taught with the help of industry Auto desk	B	Need to be enhanced	79
18	Add-on Courses (Department-wise) during current academic year	PDE II, subject is being taught with the help of industry Auto desk	B	Need to be enhanced	79
19	Coverage of Syllabus (Average Percentage)	Approximately 80% (Student Feedback on Syllabus Coverage is available). Attendance online record is also available on the University web-portal.	A	Well Implemented	77-
20	Teaching of Humanities & Foundation Courses	Implemented as per guidelines by UGC/AICTE	A	Incorporated as per UGC/AICTE guidelines	79.
21	No. of New UG & PG Courses introduced this year:	No		Department has proposed industry collaborative PG courses to the University authority	75
22	Maintenance of Student Attendance Registers	Maintained. for each semester	A	Well Maintained	75-

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**III-TEACHING, LEARNING & EVALUATION**

23	Teaching Diaries & Teaching Plans in Prescribed Formats	Teaching Plan and Course files are maintained by individual faculty members.	A	Available
24	Co-Curricular Activities ( Department level)	Fraternity of Information Technology (Students Association) activities and Participation record is available.	A	AVISHKAR, SAE, ISHRAE, etc. Online Expert Lecture. Cynosure (Tech Fest) was planned and students were prepared, however, could not be held due to pandemic.
25	Academic Competitions ( University Level & Above)	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	A	AVISHKAR, Cynosure, SAE, ISHRAE, etc. Online BAJA SAE Competition Cynosure (Tech Fest) was planned and students were prepared, however, could not be held due to pandemic.
26	Conduct of Internal Examinations-Unit, Half-Yearly and Prefinal	Continuous assessment is carried out by the individual faculty members. Mid test is conducted by the examination department. Record of Continuous assessment is available.	A	Routinely done

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27	Subject wise result analysis	Record is available.	A	Routinely done
28	Teacher wise result analysis	Record is available.	A	Routinely done
29	Remedial Classes	Partially conducted, However, students are mentored by the faculty individually, online and offline.	B C	Summer refresh courses and make up classes <del>can be</del> conducted. No
30	Record of Evaluation of Teachers by Students	Feedback on Teachers by the students is taken and analysis is carried out.	A	Well Implemented
<b>IV-RESEARCH AND CONSULTANCY</b>				
31	Is the Department a Recognized Research Centre	Yes	A	Yes
32	No. of Research Guides in the Department	11	A	11
33	No. of Research Scholars working for Masters & Ph. D	Ph. D -36 Masters - 17	A	
34	Major/Minor/Other Research Projects	NIL		
35	Research Papers Published in previous academic year (International/	International Journal - 26	A	

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	National )			
36	Papers Presented in previous academic year(International/ National/ State )	Conferences: 04	A	
37	Books Published in previous Academic year ( Single Author/ Co Author)	--	C	Need to be initiated
38	Seminars/Workshops/ Training Programme Conducted (International/ National/ State )	-Pedagogical and Assessment Techniques for Product Design Engineering, Dr. BATU (Feb 25- March 6, 2019), Research Methodology (Nov 2019), -Recent Trends in Welding and Joining Technology, Dr. BATU 26-30 November, 2019 -Mathematical Modelling and Numerical Techniques (9 – 13 December 2019) FEM (March 2020)	A	
39	Record of Consultancy in previous academic year	Nil	C	
40	Record of MoUs in previous academic year	Alicon cast alloy Pune	B	0 -
<b>VI-EXTENSION ACTIVITIES</b>				

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41	Record of Subject/Department Related Extension Activities	Record of few activities is maintained by the department	A	
42	Name of the NSS PO & Mobile No.	Dr H. N. Warhatkar, 9403316374	A	NSS University Cordinator
43	NSS Attendance register	Maintained at University Level	A	Actively participants from Mechanical department (36 Students)
44	NSS Activity register	Maintained at University Level	A	Maintained at University Level
45	Name of the NCC ANO & Mobile No.	Dr. M. P. Bhagat, 7588265601	A	
46	NCC Attendance register	Maintained at University Level	A	Maitained at University Level
47	NCC activity register	Maintained at University Level. Annual Activity Report 2017-18 is maintained by the department.	A	Maitained at University Level Blood Donation Camp -230(2019-20) National Yoga Day-300(2019-20) Annual NCC Camp-50(2019-20)
48	Name of the professional Club Coordinator & Mobile No.	SAE Dr. R. S. Pawade Mo. No. - 8698559938 ISHRAE Dr. N Agrawal Mo. No. - 9422472997	A	
49	Professional Club Activities	SMART Energy software Training, Participation in JAMBOORI 7, K-12 activity, Tech Paper presentation, \ SAE- BAJA activity,	A	

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50	Name of the Women Empowerment Cell (WEC) Coordinator & Mobile No.	Maintained at University Level by <u>Khedkar S.T.</u>	A	Maintained at University Level
51	WEC Activities	Maintained at University Level	A	
52	Name of the Eco-Club Coordinator & Mobile No.	Dr. R. P. Kate Faculty coordinator for Sustainable development	A	
53	Eco- Club Activities	Expert talks	A B <u>Club</u>	Expert talk by <u>Product driven R &amp; D</u> <u>Premnagar Misti</u> was organized.
54	Name of the Consumer Club Coordinator & Mobile No.	Not in Place however, Cooperative society in place at University level ✓	C	
55	Consumer Club Activities	No, However, Cooperative society in place at University level ✓	C	
56	Any other Club	Mechanical Engineering Students Association (MESA) <u>Dr. S.R. Dhale.</u>	A	Ten different clubs are functional

**IV-LEARNING RESOURCES**

57	Name of the Librarian & Mob. No	S.P.Vaidya, 94233382280	A	
58	Access timings of the Library	9.30 Am and 5.30 PM. on working days. The library hours are extended during the time of final examinations <u>9.0 am to 7.30 P.M.</u>	A	

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59	Circulation of Books among Students	LIBMAN (Library Software) is used for circulation transaction. Library also runs book bank scheme sponsored by the Govt. of Maharashtra. http://dbatulibrary/opac or http://172.16.5.238/opac) online public access catalogue is used.	B	Book bank, etc.
60	Availability of Previous years Question papers	Last 3 years question papers are available with course files for each course is prepared by every faculty members.	A	Last Three years question papers are available with department.
61	Record of Visitors	Maintained by University Library .The library is having open access.	A	Maintained by Library and Department Library is maintained by Lab Assistant.
62	Status of Library Automation	The library is partially computerized with the help of LIBMAN (Library Software).The circulation transaction, Barcode generation, No dues certificates, Reminder etc. work is carried out with the help of this software.	A	LIB MAN Software
63	e-Lessons & e-Resources/ e-Journals	Various Journals and Resources are subscribed and available online	A	Need to subscribe more journals.
64	Usage of Internet by students in the Library	Library has separate computer section around 20 computers are available with internet connectivity for students for accessing online journals and e-books.	A	Available
65	Name of SWAYAM Coordinator & Mob. No	Dr.R.S.Pawade,8698559938		

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66	Status of SWAYAM facilities functioning	University is recognized as an ACTIVE Local Chapter. EDUSAT hall is used.	A	
67	Whether SWAYAM schedule is circulated to the students	It is circulated by Dr. R. S. Pawade and Dr. S. L. Nalbalwar	A	
68	Maintenance of SWAYAM Viewers' Register	Partially maintained at University Level by concerned coordinator	A	

**VII-Student Support Activities**

69	Name of the Physical/Sports Director & Mob.No	Dr. P. B. Lokhande, 8600674584		
70	Record of Physical Education/Sports Department	Record is maintained at university level	A	Need to improve
71	Records of events conducted	University Sports – Participants No.-20 (2019-20)	A	Record is maintained at university level
72	Records of significant achievements in Sports & Games	List of winners from mechanical department in Sports events is available. Detailed Record is	A	Record is maintained at university level ✓

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		maintained at university level.		
73	Record of Cultural programmes conducted	-Induction cum fresher welcome	A	Cultural events could not take place due to pandemic
74	Record of any other extra-curricular activities conducted			
75	Maintenance of Placement Cell facilities & records	Detailed Record is maintained at university level	A	
76	Record of Student trained and placed	Detailed Record is maintained at university level	A	
77	Name of Career Guidance Cell Coordinator & Mob. No	Dr. N. Agrawal 9422472997		
78	Record of activities Career Guidance	Soft skill training and start up workshops	A	
79	Departmental Review Committee (DRC) Coordinator & Mob. No.	Committees are in place for review of the BTS, TPCS and BTP. MTP, MTS Prof. M. S. Tandale and Prof. R. P. Kate	-	
80	Implementation of DRC Action Plan	Allotment and evaluation record is maintained	A	
81	IQAC activities & maintenance of records , (Action	Partially it is done		

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	Plan/Minutes of Meeting/Proof of submission of AQAR to NAAC/Activity register etc)			
82	Record of Support by Alumni Association	Helped to arrange internship ,placement and expert talk.		
83	Record of Grievance Redressal Cell / Anti Ragging cell	Record of Grievance Redressal Cell and Women's Grievance Redressal Committee is maintained at University level.	B	
84	Record of Anti Ragging cell	Available	A	Record is maintained at university level
<b>VIII-Basic Amenities</b>				
85	Maintenance of drinking water	Some water coolers and filters are available	A	Water coolers and filters are available in the campus.
86	Maintenance of sanitation	Maintained	A	
87	Rest room for women students	Available at University level on the ground floor	A	available at every floor
88	Greenery	Maintained at University Level by Estate section		University workers are appointed for the purpose.

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			A	
89	Cleanliness	Maintained at University Level by Estate section	A	University workers are appointed for the purpose
90	Health Care Facility	University has its own primary health care centre	A	First Aid Kit is available with department
91	Canteen	Canteen is available to students and faculties.	A	Available
<b>IX-GOVERNANCE AND LEADERSHIP</b>				
92	Management Committee Register	Records of various meetings are maintained by Registrar Office.	A	
93	Functioning of Committees in Administration (Minutes of meetings)	In Place Records are maintained by the office of the Registrar.	A	


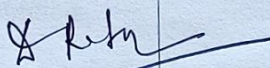
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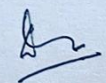
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94	Awards/Achievements			
95	Faculty development initiatives if any	QIP scheme, participation in conferences and seminars, FDPs etc	A	
<b>X - IT INITIATIVES</b>				
96	E-Class rooms ( Number & Usage)	01 Smart Classroom (LH 206) is functioning.	A	
97	Internet Centre	Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level	A	Computer center with own server is available at University. Connectivity should be improved
98	Computer labs ( No. of labs & working systems)	01 Labs (35 Working PCs)	A	
<b>XI-Best Practices</b>				
99	Record of best/innovative practices by the Department	1)TPCS 2) 24 hrs lab access to the students and faculty 3) Research publication through B.	A	

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		Tech./M. Tech. Project		
100	Department Activity Register & Hard Copy of AQAR of previous year (should be available with the Principal)	Available	^	Annual Report are maintained and submitted by department to VC office.
			<b>Signatures of Academic Advisors,</b>  <b>Dr. B. S. Gawali</b> Professor Dept of Mechanical Engineering WCE Sangali	
			 <b>Dr. Debdatta Ratna</b> (Scientist F) HoD Polymer Science & Technology Naval Materials Research Laboratory DRDO, Ambernath (East)	
		<b>Signature of the HoD</b>		
	Note: the Formar is to be filled by the HoD and submitted to the Academic Audit Team.			





**Dr. Babasaheb Ambedkar Technological University**

**Academic Audit of Department**

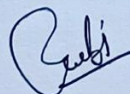
**Format for submission of Academic Advisors Report (AAR)**

**Name of the University Department:-Mechanical Engineering Period of Audit: 2019 – 2020**

**I-Department Profile**

1	Name of the University Department, Website, email and Ph.No.	Department of Mechanical Engineering, www.dbatu.ac.in, neerajagrawal@dbatu.ac.in, 9422472997		
2	Name of the HoD, email & Mob.No	Dr. Neeraj Agrawal , neerajagrawal@dbatu.ac.in, 9422472997		
3	Name of the Vice-Principal, if any, email & Mob. No.	NA		
4	Name of the IQAC Coordinator, email & Mob. No.	Dr. S. L. Nalbalwar, slnalbalwar@dbatu.ac.in ,8793814621		
5	Year of Establishment & own land if any	1992, Yes		
7	NBA accreditation of courses	Not accredited		
8	NAAC Grade with Cycle, Accredited Year & CGPA ( Status of preparation if not Accredited)	B Grade, 1st Cycle, 2015, 2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb Ambedkar Technological University, Lonere- Maharashtra		
9	UGC Recognition (2F & 12 B)	Yes		
10	Department Working Hours( if shift system mention details of both shifts & give reasons for shift system)	8.00 A.M. TO 6.00 P.M.		
11	No. of Posts Sanctioned: 10	Regular Faculty Working: 12	Contract Faculty Working: 03	Visiting Faculty: 01

\*: Prepared for current academic year




I-Department Profile				
	Item	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation		Recommendation/Suggestions by Academic Advisors
		Grade	Actual Status	
1	Implementation of Annual Departmental Plan	A	Annual department plan was prepared well before start of academic Year	
2	Departmental Annual Curricular Plans	A	Curricular plan was prepared.	
3	Department Activity Register for the Academic Year	A	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	
4	Departmental Activity Registers	A	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded	
5	Add-on Courses (Department-wise) completed during previous year	A	Added in syllabi	
6	Add-on Courses (Department-wise) during current academic year	A	Implemented Product Design Engineering II,	

\*: Prepared for current academic year

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7	Coverage of Syllabus (Average Percentage)	A	Approximately 80% (Student Feedback on Syllabus Coverage is available). Attendance online record is also available on the University web-portal.	
8	Teaching of Humanities & Foundation Courses	A	Implemented as per guidelines by UGC/AICTE at First Year Engineering	
9	Teaching of Environmental Science and Ethics	A	Implemented as per guidelines by UGC/AICTE at First Year Engineering	
10	No. of New UG & PG Courses introduced this year:		Nil	
11	Maintenance of Student Attendance Registers	A	Maintained. For each semester e-attendance record is available.	
12	Feedback forms on Curriculum from students	A	Feedback forms are filled by students at the end of each semester	
<b>III-TEACHING, LEARNING &amp; EVALUATION</b>				
1	Teaching Diaries & Teaching Plans in Prescribed Formats	A	Teaching Plan and Course files are maintained by individual faculty members.	
2	Co-Curricular Activities (Department level)	A	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	

\*: Prepared for current academic year

*Quli*

*[Signature]*

3	Academic Competitions (University Level & Above)	A	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	
4	Conduct of Internal Examinations	A	Continuous assessment is carried out by the individual faculty members. Mid test is conducted by the examination department. Record of Continuous assessment is available.	
5	Subject wise result analysis	A	Record is available.	
6	Teacher wise result analysis	A	Record is available.	
7	Remedial Classes	C	* Activity not planned	
8	Record of Evaluation of Teachers by Students	A	Feedback on Teachers by the students is taken and analysis is carried out.	

\*: Prepared for current academic year




#### IV-RESEARCH AND CONSULTANCY

1	Is the Department a Recognized Research Centre	A	Yes, Department is a Recognized Research Centre from academic Year 2015.	
2	No. of Research Guides in the Department	A	11	
3	No. of Research Scholars working for Masters & Ph. D	A	Presently 36 research scholars perusing their Ph.D. in the department. 12 M Tech (Manufacturing) and 12 M Tech (Thermal & Fluids)	
4	Major/Minor/Other Research Projects	A	PG Projects – 19 UG Projects – 19	Needs improvement
5	Research Papers Published in previous academic year (International/ National)	A	International Journal - 26	
6	Papers Presented in previous academic year (International/ National/ State)	A	Conferences-04	Needs improvement.
7	Books Published in previous Academic year (Single Author/ Co Author)	C	* Activity not planned	
8	Seminars/Workshops/ Training Programme Conducted	A	-Pedagogical and Assessment Techniques for Product Design Engineering, Dr.	Needs improvement.

\*: Prepared for current academic year

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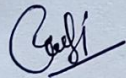
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	(International/ National/ State )		BATU (Feb 25- March 6, 2019) -Recent Trends in Welding and Joining Technology, Dr. BATU 26-30 November, 2019 -Mathematical Modelling and Numerical Techniques (9 – 13 December 2019)	
9	Record of Consultancy in previous academic year	A	Research projects, Development projects, Startup projects -12 ITDC, Ghodegoan, Pune	
10	Record of MoUs in academic year	A	TATA Technologies Ltd, Pune ITDC, Ghodegoan, Pune	
<b>VI-EXTENSION ACTIVITIES</b>				
1	Record of Subject/Department Related Extension Activities	A	Record of few activities is maintained by the department	
2	Name of the NSS PO & Mobile No.	A	Dr. H. N. Warahkar, 9403316374	
3	NSS Attendance register	A	Maintained at University Level	

\*: Prepared for current academic year

4	NSS Activity register	A	Maintained at University Level	
5	Name of the NCC ANO & Mobile No.	A	Dr. M. P. Bhagat, 7588265601	
6	NCC Attendance register	A	Maintained at University Level	
7	NCC activity register	A	Maintained at University Level. Annual Activity Report 2018-19 is maintained by the department.	
8	Name of the professional Club Coordinator & Mobile No.	A	SAE Dr. R. S. Pawade Mo. No. - 8698559938 ISHRAE Dr. N Agrawal Mo. No. - 9422472997	
9	Professional Club Activities	A	ISHRAE Quiz, Slambook Competition, Mock Interview, Tech-click, etc.	
10	Name of the Women Empowerment Cell (WEC) Coordinator & Mobile No.	A	Maintained at University Level.	
11	WEC Activities	A	Maintained at University Level	

\*: Prepared for current academic year




12	Name of the Eco-Club Coordinator & Mobile No.		Dr. M. Sadaiah	
13	Eco- Club Activities	A	Technical Project Under Community Service(19 Projects)	
14	Name of the Consumer Club Coordinator & Mobile No.	C	* Activity not planned	
15	Consumer Club Activities	C	* Activity not planned	
16	Innovation Activity club	C	* Activity not planned	
17	Technology Development and Transfer Cell Activities		* Activity not planned	
18	Any other Club	A	Mechanical Engineering Students Association	

\*: Prepared for current academic year

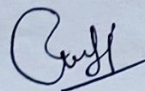
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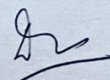
*Dr*



IV-LEARNING RESOURCES			
1	Name of the Librarian & Mob.No		S.P.Vaidya,94233382280
2	Access timings of the Library	A	9.30 Am and 5.30 PM. on working days. The library hours are extended during the time of final examinations.
3	Circulation of Books among Students	B	LIBMAN (Library Software) is used for circulation transaction. Library also runs book bank scheme sponsored by the Govt. of Maharashtra. <a href="http://dbatulibrary/opac">http://dbatulibrary/opac</a> or <a href="http://172.16.5.238/opac">http://172.16.5.238/opac</a> online public access catalogue is used.
4	Availability of Previous years Question papers	A	Last 3 years question papers are available with course files for each course is prepared by every faculty members.
5	Availability of model answers of previous examinations	A	Last 3 years question papers and model answers are available with course files for each course is prepared by every faculty members.

\*: Prepared for current academic year





6	Record of Visitors	A	Maintained by University Library .The library is having open access.	
7	Status of Library Automation	A	The library is partially computerized with the help of LIBMAN (Library Software).The circulation transaction, Barcode generation, No dues certificates, Reminder etc. work is carried out with the help of this software.	
8	e-Lessons & e-Resources/ e-Journals	A	Various Journals and Resources are subscribed and available online	
9	Usage of Internet by students in the Library	A	Library has separate computer section around 20 computers are available with internet connectivity for students for accessing online journals and e-books.	
10	Name of SWAYAM Coordinator & Mob. No	A	Dr.R.S.Pawade,8698559938	
11	Status of SWAYAM facilities functioning	A	University is recognized as an ACTIVE Local Chapter. EduSat hall is used.	
12	Whether SWAYAM schedule is circulated to the students	A	It is circulated by Dr.R. S. Pawade and Dr. S .L. Nalbalwar	

\*: Prepared for current academic year

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13	Maintenance of SWAYAM Viewers' Register	A	Partially maintained at University Level by concerned coordinator	
<b>VII-Student Support Activities</b>				
1	Name of the Physical/Sports Director & Mob.No		Dr. P. B. Lokhande, 8600674584	
2	Record of Physical Education/Sports Department	A	Record is maintained at university level	
3	Records of events conducted	A	University Sports – Participants No.-20 (2019-20)	
4	Records of significant achievements in Sports & Games	A	List of winners from Mechanical Engineering department in Sports events is available. Detailed Record is maintained at university level.	
5	Record of Cultural programmes conducted	A	Dept students' Participation Record maintained. Detailed Record is maintained at university level.	
6	Record of any other extra-curricular activities conducted	A	Dept students' Participation Record maintained.	

\*: Prepared for current academic year

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7	Maintenance of Placement Cell facilities & records	A	Detailed Record is maintained at university level.	
8	Record of Student trained and placed	A	No students placed in this 2019-20 in campus interview – 11.	
9	Name of Career Guidance Cell Coordinator & Mob.No	A	Dr. N. Agrawal 9422472997	
10	Record of activities Career Guidance	A	Few workshops on start-ups conducted. Record is available.	
11	Departmental Review Committee (DRC) Coordinator & Mob. No.	A	Dr. V.G. Sargade, 9730341788	
12	Implementation of DRC Action Plan	C	*Activity not planned	
13	IQAC activities & maintenance of records , (Action Plan/Minutes of Meeting/Proof of submission of AQAR to NAAC/Activity register etc)	A	IQAC Minutes of Meeting are available. Proof of submission of AQAR is maintained.	

\*: Prepared for current academic year

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14	Record of Support by Alumni Association	B	Alumni Association registration is in progress.	
15	Record of Grievance Redressal Cell / Anti Ragging cell	B	Record of Grievance Redressal Cell and Women's Grievance Redressal Committee is maintained at University level.	
16	Record of Anti Ragging cell	A	Available at University Level	

### VIII-Basic Amenities

1	Maintenance of drinking water	A	Some water coolers and filters are available	
2	Maintenance of sanitation	C	Maintained	
3	Rest room for women students	A	Available at University level on the ground floor	
4	Greenery	A	Maintained at University Level by Estate section	
5	Cleanliness	A	Maintained at University Level by Estate section	

\*: Prepared for current academic year

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6	Health Care Facility	A	University has its own Primary Health Care Centre	
7	Canteen	A	Canteen is available to students and faculties.	
<b>IX-GOVERNANCE AND LEADERSHIP</b>				
1	Management Committee Register	A	Records of various meetings are maintained by Department office.	
2	Functioning of Committees in Administration ( Minutes of meetings)	A	Minutes of BoS and Advisory Committee is maintained.	
3	Awards/Achievements	A	GATE – 01 (2019-20)	
4	Faculty development initiatives if any	A		
<b>X - IT INITIATIVES</b>				
1	E-Class rooms ( Number & Usage)	A	01 Smart Classroom (LH 206) is functioning.	

\*: Prepared for current academic year




2	Internet Centre	A	Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level
3	Computer labs (No. of labs & working systems)	A	01 Labs (Working PCs)

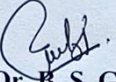
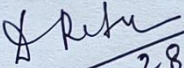
#### XI-Best Practices

1	Record of best/innovative practices by the Department	A	1) Prepared curriculum with equal contribution of academia and industry experts Curriculum pathchart with set of stream electives is attached (at department level) 2) Item action Tracker 3) 18 Knowledge area course mapping
2	Department Activity Register & Hard Copy	A	Available

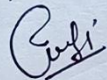
\*: Prepared for current academic year

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of AQAR of previous year (should be available with the Principal)			
Over All Impression on the College	A	Available	Annual Report are maintained and submitted by department to VC office.
		<p><b>Signatures of Academic Advisors</b></p> <p></p> <p>1. <b>Dr. B. S. Gawali</b> Professor Dept of Mechanical Engineering WCE Sangali</p> <p> 28/10/21</p> <p>2. <b>Dr. Debdatta Ratna</b> (Scientist F) HoD Polymer Science &amp; Technology Naval Materials Research Laboratory DRDO, Ambemath (East)</p>	

\*: Prepared for current academic year

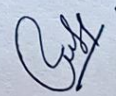






	<b>Signature of the HoD</b>		Note: the Format is to be filled by the HoD and submitted to the Academic Audit Team.
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\*: Prepared for current academic year



# **ACADEMIC AUDIT**

**(2020 - 2021)**



**Department of Mechanical Engineering,  
Dr. Babasaheb Ambedkar Technological University,  
Lonere - 402 103, Dist- Raigad, Maharashtra**

**Dr. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

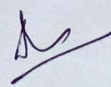
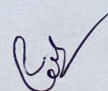
**Academic Audit for AY 2019-20 & 2020-21**

Schedule for External Academic Audit of Mechanical Engineering Department  
Date: 28 and 29 October 2021, Venue: CAD CAM Lab

<b>Date: 28<sup>th</sup> October, 2021 (Academic Year 2019 – 2020)</b>	
2.30 pm	Arrival of the Experts
2.30 pm to 2.50 pm	Brief outline, introduction by HoD
2.50 pm to 4.00 pm	Audit stage I, format I
4.15 pm to 5.15 pm	Audit stage II, format II (Please bring the related documents, course files in hard copy or soft copy)
5.15 pm to 5.45 pm	Preparation of report
<b>Date: Day 2, 29<sup>th</sup> October, 2021(Academic Year 2020 – 2021)</b>	
10.30 am	Resuming of activity
10.30 am to 11.30 am	Audit stage I, format I
11.30 am to 12.15 am	Audit stage II, format II (Please bring the related documents, course files in hard copy or soft copy)
12.15 am to 12.45 noon	Preparation of report
12.45 noon to 1.00 pm	Concluding remarks by the Experts
1.00 pm to 1.10 pm	Vote of thanks
<b>Auditors:</b>	
<b>Dr. B. S. Gawali</b> Professor, Dept of Mechanical Engineering WCE Sangali	<b>Dr. Debdatta Ratna (Scientist F)</b> HoD Polymer Science & Technology Naval Materials Research Laboratory DRDO, Ambarnath (East)

**Dr. Neeraj Agrawal**  
Professor & Head,  
Mechanical Engineering Department

**Dr. Dhanraj B. Waghmare, Mr. Prashant Agwane**  
Departmental Coordinator - Academic Audit



## Academic Audit Summary Sheet

Institution/University Department: Dr. Babasaheb Ambedkar Technological University

Program Title: Mechanical Engineering

Degree Level: **Undergraduate**

Academic Audit Status: 19-20 and 20-21 is in progress

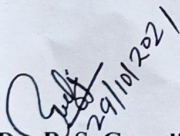
### Evaluation Results

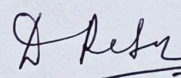
		Met/not met	% achieved
<b>1</b>	<b>LEARNING OBJECTIVES AND RESOURCES</b>		
1.1	The Faculty member has prepared Course Files as per the learning objectives of the program	Met	95
1.2	The Faculty member has shared his course file with the students of the class through Intranet/ Social media or any other means	Met	100
1.3	The faculty member documented specific benchmarks of his course to account for learning objectives	Met	80
<b>2.</b>	<b>CURRICULUM AND CO-CURRICULUM</b>		
2.1	The faculty member collaborated with other faculty members for effective design, sequence of courses and delivery of course for improvements and documented these efforts appropriately	Met	70
2.2	The faculty member documented a plan for analyzing the course content in terms of achieving program objectives.	Met	60
2.3	The faculty member documented a plan for review of curriculum and co-curriculum comparing those with the best practices elsewhere or in best institutes	Met	75
<b>3</b>	<b>TEACHING AND LEARNING PROCESSES</b>		
3.1	The faculty member analyzed his/her own methods for improving teaching and learning throughout the program and practiced them.	Met	85
3.2	The faculty member developed and promoted effective instructional methods, other than lecturing, so that student achieve the learning objectives.	Met	95
	The faculty member developed materials for achieving student mastery of learning objectives.	Met	95

<b>4.0</b>	<b>STUDENT LEARNING ASSESSMENT</b>		
4.1	The Faculty member has announced the method of continuous assessment at the beginning of the course and followed it throughout.	Met	100
4.2	The faculty member developed techniques, other than written test, for the student learning assessments to improve the program.	Met	95
4.3	The faculty member has documented assessments of student learning	Met	100
4.4	The faculty member has developed measurable indicators of student learning success	Met	100
4.5	The faculty member has developed and documented a continuous improvement plan that incorporates multiple measures to assess student learning and program effectiveness.	Met	80
4.6	The Student has put in his/her own efforts in the learning process from resources outside the Institute.	Met	90
4.7	The students are challenged enough to use their knowledge creatively	Met	85
<b>5.0</b>	<b>QUALITY ASSURANCE</b>		
5.1	There is an existing process in the Institute to understand the parameters of quality of teaching and learning processes	Met	70
5.2	There is an initiative to understand the parameters of quality of teaching and learning processes, if not existing	Met	70
5.3	There is commitment to making continuous quality improvements in the program a top priority	Met	60
5.4	The performance of students in Internal Assessment and University Examinations is comparable.	Met	100
5.5	There is sufficient feedback obtained from stakeholders in development of academic processes in the College.	Met	90
5.6	There is sufficient evidence of attempts to understand the industries/ Society's need in delivery of appropriate course content to the students	Met	80
<b>6</b>	<b>OVERALL ASSESSMENT</b>		
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	70
6.3	The Audit resulted in a candid description of weaknesses in program processes and suggestions for improvements.	Met	80
6.4	There is openness and thoroughness of the faculty members 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 members	Met	75
<b>7</b>	<b>FOLLOW-UP OF PREVIOUS AUDIT</b>		
7.1	An action plan was developed as a result of the previous	Could not	

	Academic Audit	be done due to pandemic	
7.2	There is documented evidence that recommendations made by the previous Academic Audit Team have been considered and, when feasible and appropriate, implemented and tracked	be done due to pandemic	80
7.3	There is documented evidence that the program has been implemented and tracked the progress of and use of results from improvement initiatives cited by the faculty its self-study.	Met	95
<b>8</b>	<b>SUPPORT</b>		
8.1	The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources.	Met	80
8.2	The program's operating budget is consistent with the needs of the program.	Met	80
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 rate sufficient to sustain the quality of the program.	Met	100
8.5	The program has a history of placement rate sufficient to sustain high quality of program outcome.	Met	30
8.6	The Program has a history of generating support from industries and alumni to sustain itself.	Met	70

### Signatures of Academic Advisors

  
**Dr. B. S. Gawali**  
 Professor,  
 Dept of Mechanical Engineering  
 WCE Sangali

  
**Dr. Debdatta Ratna (Scientist F)** 29/10/21  
 HoD  
 Polymer Science & Technology  
 Naval Materials Research Laboratory  
 DRDO, Ambarnath (East)

Academic Audit of University Department  
Format for submission of Academic Advisors Report (AAR)  
Name of The Department:- Mechanical Engineering


S.No	Item	Grade *	Impression
1	Conduct of Classes	A	Well Conducted ONLINE
2	Co-Curricular Activities & Extra-Curricular Activities	A	Good participation of students in Co-Curricular and extra-curricular activities Expert talks through online mode
3	College Activity Register	A	Maintained records properly
	Departmental Activity Registers	A	Well maintained records of different activities.
5	Discipline in the campus	A	Good discipline.
6	IQAC	A	IQAC is ensuring to enhanced the overall quality.
7	Placement	C	Efforts are taken to enhance the placement. However, a holistic effort is required to make the students industry ready. Never the less overall slowdown in core industries also affecting the placement globally. A few placement in core industry.
8	Departmental research	A	Relatively better research outcome in terms of publication, more patents can be filed.
	Career Guidance Cell	B	Presently it is being done through placement cell however, separate career guidance activities need to be established.
10	SWAYAM facilities	A	In the new curriculum it is made mandatory to opt for at least one course per semester through SWAYAM. Almost 90% plus students have done the online course. However, only few have taken examination.
11	Library	A	Department library is maintained with good number of volume.
12	Research &	A	There are self-contained laboratories, however, few needs partitions

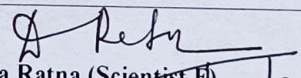
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	Laboratories		which is progress, The partition proposal has already been executed and tendering is done. Research laboratories and culture is relatively good.
13	Games & Sports	B	Students are encouraged to participate in sports. However, due to lock down much could not be done. Proposal to create separate sports complex has been submitted.
<b>S.No</b>	<b>Item</b>	<b>Grade *</b>	<b>Impression</b>
14	Humanities and Foundation Courses	A	Included
15	Teacher Evaluation by Students	A	It is in place and well executed proposed go for online feedback through AICTE 360 degree
16	Maintenance of Registers	A	Maintained.
17	Teaching Diaries & Plans	A	Course files are Available with lesson plans
18	NCC / NSS	A	Available
19	Women Empowerment Cell	A	Available at university level.
20	Professional Club	A	SAE, ISHRAE
21	Sanitation & drinking water	A	In good condition
22	Cleanliness	A	Maintained. The entire campus is sanitized on regular interval
23	Functioning of Teachers	A	Good
24	Over All Impression on the College	A	Good
25	Any Other important Observation - Need to improve with respect to infrastructure, cleanliness, placement		

\* A(Good)/B( Satisfactory)/C (poor)

  
**Dr. B. S. Gawali**  
 Professor,  
 Dept of Mechanical Engineering  
 WCE Sangali

  
**Dr. Debdatta Ratna (Scientist F)**  
 HoD 29/10/21  
 Polymer Science & Technology  
 Naval Materials Research Laboratory  
 DRDO, Ambarnath (East)



**Dr. Babasaheb Ambedkar Technological University**

**Academic Audit of Department**

**Format-I (Department Data)**

**Name of the University Department:- Mechanical Engineering Period of Audit: July 2020 – June 2021**

**I-Department Profile**

1	Name of the University Department, Website, email and Ph.No.	Department of Mechanical Engineering, www.dbatu.ac.in, neerajagrawal@dbatu.ac.in, 9422472997		
2	Name of the HoD, email & Mob.No	Dr. Neeraj Agrawal , neerajagrawal@dbatu.ac.in, 9422472997		
3	Name of the Vice-Principal, if any, email & Mob. No.	NA		
4	Name of the IQAC Coordinator, email & Mob. No.	Dr. S. L. Nalbalwar, snalbalwar@dbatu.ac.in ,8793814621		
5	Year of Establishment & own land if any	1992, Yes		
7	NBA accreditation of courses	Not accredited		
8	NAAC Grade with Cycle, Accredited Year & CGPA ( Status of preparation if not Accredited)	B Grade, 1st Cycle, 2015, 2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb Ambedkar Technological University, Lonere- Maharashtra		
9	UGC Recognition (2F & 12 B)	Yes		
10	Department Working Hours( if shift system mention details of both shifts & give reasons for shift system)	8.00 A.M. TO 6.00 P.M.		
11	No. of Posts Sanctioned: 19	Regular Faculty Working: 12	Contract Faculty Working: 05	Adjunct Faculty:- NIL

*S. S. S.*

**I-Department Profile**

	Item	Status ( Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation	Recommendation/Suggestions by Academic Advisors
			Grade	
12	Implementation of Annual Departmental Plan	Annual department plan was prepared well before start of academic Year	A	Well Implemented
13	Departmental Annual Curricular Plans	Curricular plan was prepared well before start of semester.	A	Well Implemented
14	Whether the above two circulated among Students?	Annual Institutional Plan is available on university Website and academic calendar was circulated to the students through mail to all the CRs and LRs.	A	Well Implemented
15	Department Activity Register during the academic year	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	A	Well maintained
16	Department Calendar/Department Magazine	Available on DBATU website	A	Well maintained

17	Add-on Courses (Department-wise) completed during previous year	PDE II	A	Need to be enhanced
18	Add-on Courses (Department-wise) during current academic year	TATA TECHNOLOGY (Automobile Design)	A	Need to be enhanced
19	Coverage of Syllabus (Average Percentage)	Approximately 80% (Student Feedback on Syllabus Coverage is available). Attendance online record is also available on the University web-portal.	A	Well Implemented
20	Teaching of Humanities & Foundation Courses	Implemented as per guidelines by UGC/AICTE	A	Incorporated as per UGC/AICTE guidelines
21	No. of New UG & PG Courses introduced this year:	No	B	Department has proposed industry collaborative PG courses to the University authority
22	Maintenance of Student Attendance Registers	Maintained. for each semester e-attendance record is available.	A	Well Maintained

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III-TEACHING, LEARNING & EVALUATION				
23	Teaching Diaries & Teaching Plans in Prescribed Formats	Teaching Plan and Course files are maintained by individual faculty members.	A	Available
24	Co-Curricular Activities ( Department level)	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	A	AVISHKAR, SAE, ISHRAE, etc. Online Expert Lecture.
25	Academic Competitions ( University Level & Above)	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	A	AVISHKAR, Cynosure, SAE, ISHRAE, etc. Online BAJA SAE Competition
26	Conduct of Internal Examinations-Unit, Half-Yearly and Prefinal	Continuous assessment is carried out by the individual faculty members. Mid test is conducted by the examination department. Record of Continuous assessment is available.	A	Routinely done
27	Subject wise result analysis	Record is available.	A	Routinely done
28	Teacher wise result analysis	Record is available.	A	Routinely done

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29	Remedial Classes	Nil, However, students are free to approach individual teacher to solve the doubt.	C	Summer refresh courses and make up classes can be conducted.
30	Record of Evaluation of Teachers by Students	Feedback on Teachers by the students is taken and analysis is carried out.	A	Well Implemented
<b>IV-RESEARCH AND CONSULTANCY</b>				
31	Is the Department a Recognized Research Centre	Yes	A	
32	No. of Research Guides in the Department	11	A	
33	No. of Research Scholars working for Masters & Ph. D	Ph. D – 30 Masters – 05	A	
34	Major/Minor/Other Research Projects	Nil	—	Due to Pandemic condition for the session. should be taken up in future.
35	Research Papers Published in previous academic year (International/ National )	International Journal - 21	A	
36	Papers Presented in previous academic year (International/ National/ State )	Conferences: 09	A	

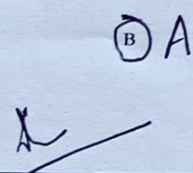
37	Books Published in previous Academic year ( Single Author/ Co Author)	---	C	Need to be initiated
38	Seminars/Workshops/ Training Programme Conducted (International/ National/ State )	FDP on Modelling of Mfg Processes in Online mode,	A	Considering pandemic situation it is acceptable.
39	Record of Consultancy in previous academic year	Consultancy Project for MNGL, Pune-01	(A) B	Need to be enhanced
40	Record of MoUs in previous academic year	- TATA Technologies Ltd, Pune	A	Need to be enhanced
<b>VI-EXTENSION ACTIVITIES</b>				
41	Record of Subject/Department Related Extension Activities	Record of few activities is maintained by the department	A	NSS/Training /etc.
42	Name of the NSS PO & Mobile No.	H. N. Warhatkar, 9403316374		
43	NSS Attendance register	Maintained at University Level	A	Actively participants from Mechanical department (36 Students)

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44	NSS Activity register	Maintained at University Level	^	Maitained at University Level
45	Name of the NCC ANO & Mobile No.	Dr. M. P. Bhagat, 7588265601		
46	NCC Attendance register	Maintained at University Level	^	Maitained at University Level
47	NCC activity register	Maintained at University Level. Annual Activity Report 2017-18 is maintained by the department.	^	Maitained at University Level
48	Name of the professional Club Coordinator & Mobile No.	SAE Dr. R. S. Pawade Mo. No. - 8698559938 ISHRAE Dr. N Agrawal Mo. No. - 9422472997		
49	Professional Club Activities	ISHRAE Orientation programme, Tech Opinion, Poster making competition, ISTL, CINE QUIZ COMPETITION.	^	
50	Name of the Women Empowerment Cell (WEC) Coordinator & Mobile No.	Maintained at University Level	^	Maintained at University Level
51	WEC Activities	Maintained at University Level	^	
52	Name of the Eco-Club Coordinator & Mobile No.	Dr. R. P. Kate		
53	Eco- Club Activities	A few TPCS project on		Product driven R & D

		sustainable development such as System of collecting Dead animals, Smart pen etc	A	
54	Name of the Consumer Club Coordinator & Mobile No.	Not in Place however, Cooperative society in place at University level	C	
55	Consumer Club Activities	No, However, Cooperative society in place at University level	C	
56	Any other Club	Mechanical Engineering Students Association (MESA)	A	MESA, X'ELERATE

#### IV-LEARNING RESOURCES

57	Name of the Librarian & Mob. No	S.P.Vaidya,94233382280		
58	Access timings of the Library	9.30 Am and 5.30 PM. on working days. The library hours are extended during the time of final examinations.	A	
59	Circulation of Books among Students	LIBMAN (Library Software) is used for circulation transaction. Library also runs book bank scheme sponsored by the Govt. of Maharashtra. http://dbatulibrary/opac or http://172.16.5.238/opac) online public access catalogue is used.		Book bank, etc.
60	Availability of Previous years Question papers	Last 3 years question papers are available with course files for each	A	Last Three years question papers are available with department.







		course is prepared by every faculty members.		
61	Record of Visitors	Maintained by University Library .The library is having open access.	A	Maitined by Library and Department Library is maintained by Lab Assistant.
62	Status of Library Automation	The library is partially computerized with the help of LIBMAN (Library Software).The circulation transaction, Barcode generation, No dues certificates, Reminder etc. work is carried out with the help of this software.	A	LIB MAN Software
63	e-Lessons & e-Resources/ e-Journals	Various Journals and Resources are subscribed and available online	A	Need to subscribe more journals.
64	Usage of Internet by students in the Library	Library has separate computer section around 20 computers are available with internet connectivity for students for accessing online journals and e-books.	A	Available
65	Name of SWAYAM Coordinator & Mob. No	Dr.R.S.Pawade,8698559938		
66	Status of SWAYAM facilities functioning	University is recognized as an ACTIVE Local Chapter. EDUSAT hall is used.	A	
67	Whether SWAYAM schedule is circulated to the students	It is circulated by Dr. R. S. Pawade and Dr. S. L. Nalbalwar	A	

68	Maintenance of SWAYAM Viewers' Register	Maintained at Dept Level by concerned coordinator, around 120 students had attained Fluid Mechanics and Heat Transfer NPTEL online lectures.	A	
<b>VII-Student Support Activities</b>				
69	Name of the Physical/Sports Director & Mob.No	Dr. Ganesh Warkhade,		
70	Record of Physical Education/Sports Department	Record is maintained at university level	A	Need to improve
71	Records of events conducted	Online	A	Record is maintained at university level
72	Records of significant achievements in Sports & Games	--	A	Could not be conducted due to pandemic
73	Record of Cultural programmes conducted	--	A	Could not be conducted due to pandemic
74	Record of any other extra-curricular activities conducted	Dept students' Participation Record maintained.	A	Record is maintained at university level, However extra-curricular activities can be increase by establishing entrepreneurship, robotics, aero-vehicles cells

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75	Maintenance of Placement Cell facilities & records	Detailed Record is maintained at university level.	A	Need to improve
76	Record of Student trained and placed	Maintained	A	Need to improve
77	Name of Career Guidance Cell Coordinator & Mob. No	Dr. N. Agrawal 9422472997		
78	Record of activities Career Guidance	A few online workshops were conducted.	A	Soft skills development programs are conducted at university level.
79	Departmental Review Committee (DRC) Coordinator & Mob. No.	Committees are in place for review of the BTS, TPCS and BTP. MTP, MTS Prof. M. S. Tandale and Prof. R. P. Kate		
80	Implementation of DRC Action Plan	Committees are in place for review of the BTS, TPCS and BTP. MTP, MTS Prof. M. S. Tandale and Prof. R. P. Kate	C	
81	IQAC activities & maintenance of records, (Action Plan/Minutes of Meeting/Proof of submission of AQAR to NAAC/Activity register etc)	IQAC Minutes of Meeting are available. Proof of submission of AQAR is maintained.	A	
82	Record of Support by	Alumni Association registration is	A	Records of various Achievements are

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	Alumni Association	in progress, Helped to arrange internship ,placement and expert talk.		maintained by HoD office.
83	Record of Grievance Redressal Cell / Anti Ragging cell	Record of Grievance Redressal Cell and Women's Grievance Redressal Committee is maintained at University level.	B	Suggestion box can be implemented at department
84	Record of Anti Ragging cell	Available	A	Record is maintained at university level
<b>VIII-Basic Amenities</b>				
85	Maintenance of drinking water	Some water coolers and filters are available	A	Water coolers and filters are available in the campus.
86	Maintenance of sanitation	Maintained	C	Need to improve
87	Rest room for women students	Available at University level on the ground floor	A	available at every floor
88	Greenery	Maintained at University Level by Estate section	A	University workers are appointed for the purpose.

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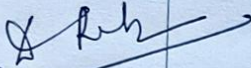
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89	Cleanliness	Maintained at University Level by Estate section	A	University workers are appointed for the purpose
90	Health Care Facility	University has its own primary health care centre	A	First Aid Kit is available with department
91	Canteen	Canteen is available to students and faculties.	A	Available
<b>IX-GOVERNANCE AND LEADERSHIP</b>				
92	Management Committee Register	Records of various meetings are maintained by Registrar Office.	A	Records of various meetings are maintained by HOD office.
93	Functioning of Committees in Administration (Minutes of meetings)	In Place Records are maintained by the office of the Registrar.	A	Various committees are available at department level with participation of faculty, parents and teacher.
94	Awards/Achievements			

			A	
95	Faculty development initiatives if any	QIP scheme, participation in conferences and seminars, FDPs etc	A	
<b>X - IT INITIATIVES</b>				
96	E-Class rooms ( Number & Usage)	01 Smart Classroom (LH 206) is functioning.	A	
97	Internet Centre	Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level	A	Computer center with own server is available at University. Connectivity should be improved
98	Computer labs ( No. of labs & working systems)	01 Labs (35 Working PCs)	A	
<b>XI-Best Practices</b>				
99	Record of best/innovative practices by the Department	1)TPCS 2) 24 hrs lab access to the students and faculty 3) Research publication through B. Tech./M. Tech. Project 4) NPTEL/SWYAM courses by the students	A	Workshop on recent trends, Community Projects etc. are conducted by department.

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100	Department Activity Register & Hard Copy of AQAR of previous year (should be available with the Principal)	Available	A	Annual Report are maintained and submitted by department to VC office.
			<p><b>Signatures of Academic Advisors</b></p> <p>  <b>Dr. B. S. Gawali</b>  Professor  Dept of Mechanical Engineering  WCE Sangali</p> <p>  <b>Dr. Debdatta Ratna</b>  (Scientist F)  HoD  Polymer Science &amp; Technology  Naval Materials Research Laboratory  DRDO, Ambernath (East)</p>	
		<b>Signature of the HoD</b>		
	Note: the Form is to be filled by the HoD and submitted to the Academic Audit Team.			

**Dr. Babasaheb Ambedkar Technological University**

**Academic Audit of Department**

**Format for submission of Academic Advisors Report (AAR)**

**Name of the University Department:-Mechanical Engineering** **Period of Audit: 2020 – 2021**

**I-Department Profile**

1	Name of the University Department, Website, email and Ph.No.	Department of Mechanical Engineering, www.dbatu.ac.in, neerajagrawal@dbatu.ac.in, 9422472997		
2	Name of the HoD, email & Mob.No	Dr. Neeraj Agrawal , neerajagrawal@dbatu.ac.in, 9422472997		
3	Name of the Vice-Principal, if any, email & Mob. No.	NA		
4	Name of the IQAC Coordinator, email & Mob. No.	Dr. S. L. Nalbalwar, snalbalwar@dbatu.ac.in ,8793814621		
5	Year of Establishment & own land if any	1992, Yes		
7	NBA accreditation of courses	Not accredited		
8	NAAC Grade with Cycle, Accredited Year & CGPA ( Status of preparation if not Accredited)	B Grade, 1st Cycle, 2015, 2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb Ambedkar Technological University, Lonere- Maharashtra		
9	UGC Recognition (2F & 12 B)	Yes		
10	Department Working Hours( if shift system mention details of both shifts & give reasons for shift system)	8.00 A.M. TO 6.00 P.M.		
11	No. of Posts Sanctioned: 10	Regular Faculty Working: 12	Contract Faculty Working: 05	Visiting Faculty:--

\*: Prepared for current academic year



I-Department Profile				
	Item	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation		Recommendation/Suggestions by Academic Advisors
		Grade	Actual Status	
1	Implementation of Annual Departmental Plan	A	Annual department plan was prepared well before start of academic Year	
2	Departmental Annual Curricular Plans	A	Curricular plan was prepared.	
3	Department Activity Register for the Academic Year	A	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	
4	Departmental Activity Registers	A	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	
5	Add-on Courses (Department-wise) completed during previous year	A	Added in syllabi	
6	Add-on Courses (Department-wise) during current academic year	A	TATA TECHNOLOGY	

\*: Prepared for current academic year

7	Coverage of Syllabus (Average Percentage)	A	Approximately 80% (Student Feedback on Syllabus Coverage is available). Attendance online record is also available on the University web-portal.	
8	Teaching of Humanities & Foundation Courses	A	Implemented as per guidelines by UGC/AICTE at First Year Engineering	
9	Teaching of Environmental Science and Ethics	A	Implemented as per guidelines by UGC/AICTE at First Year Engineering	
10	No. of New UG & PG Courses introduced this year:		Nil	
11	Maintenance of Student Attendance Registers	A	Maintained. For each semester e-attendance record is available.	
12	Feedback forms on Curriculum from students	A	Feedback forms are filled by students at the end of each semester	
<b>III-TEACHING, LEARNING &amp; EVALUATION</b>				
1	Teaching Diaries & Teaching Plans in Prescribed Formats	A	Teaching Plan and Course files are maintained by individual faculty members.	
2	Co-Curricular Activities (Department level)	A	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	

\*: Prepared for current academic year




3	Academic Competitions (University Level & Above)	A	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	
4	Conduct of Internal Examinations	A	Continuous assessment is carried out by the individual faculty members. Mid test is conducted by the examination department. Record of Continuous assessment is available.	
5	Subject wise result analysis	A	Record is available.	
6	Teacher wise result analysis	A	Record is available.	
7	Remedial Classes	C	* Activity not planned	<i>Needs improvement</i>
8	Record of Evaluation of Teachers by Students	A	Feedback on Teachers by the students is taken and analysis is carried out.	

\*: Prepared for current academic year




#### IV-RESEARCH AND CONSULTANCY

1	Is the Department a Recognized Research Centre	A	Yes, Department is a Recognized Research Centre from academic Year 2015.	
2	No. of Research Guides in the Department	A	11	
3	No. of Research Scholars working for Masters & Ph. D	A	Presently 30 research scholars perusing their Ph.D. in the department. 07 M Tech (Manufacturing) and 02 M Tech (Thermal & Fluids)	
4	Major/Minor/Other Research Projects	B	PG Projects – 05 UG Projects – 19	
5	Research Papers Published in previous academic year (International/ National )	A	International Journal - 21	
6	Papers Presented in previous academic year (International/ National/ State )	A	Conferences: 09	<i>needs improvement</i>
7	Books Published in previous Academic year ( Single Author/ Co Author)	C	* Activity not planned	<i>needs improvement .</i>
8	Seminars/Workshops/ Training Programme Conducted	A	RM and softwares (11-15 November 2019)	

\*: Prepared for current academic year




	(International/ National/ State)			
9	Record of Consultancy in previous academic year	A	Research projects ,Development projects, Startup projects -12 ITDC, Ghodegoan, Pune Consultancy Project for MNGL, Pune-01	
10	Record of MoUs in academic year	A	- TATA Technologies Ltd, Pune -ITDC, Ghodegoan, Pune ICT,Mumbai SPCE, Mumbai VJTI, Mumbai COEP, PUNE	
<b>VI-EXTENSION ACTIVITIES</b>				
1	Record of Subject/Department Related Extension Activities	A	Record of few activities is maintained by the department	
2	Name of the NSS PO & Mobile No.	A	Dr. H. N. Warahkar, 9403316374	
3	NSS Attendance register	A	Maintained at University Level	
4	NSS Activity register	A	Maintained at University Level	

\*: Prepared for current academic year





5	Name of the NCC ANO & Mobile No	A	Dr. M. P. Bhagat, 7588265601	
6	NCC Attendance register	A	Maintained at University Level	
7	NCC activity register	A	Maintained at University Level. Annual Activity Report 2018-19 is maintained by the department.	
8	Name of the professional Club Coordinator & Mobile No.	A	SAE Dr. R. S. Pawade Mo. No. - 8698559938 ISHRAE Dr. N Agrawal Mo. No. - 9422472997	
9	Professional Club Activities	A	ISHRAE Quiz, Slambook Competition, Mock Interview, Tech-click, etc.	<i>Needs improvement</i>
10	Name of the Women Empowerment Cell (WEC) Coordinator & Mobile No.	A	Maintained at University Level.	
11	WEC Activities	A	Maintained at University Level	

\*: Prepared for current academic year

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12	Name of the Eco-Club Coordinator & Mobile No.		Dr. M. Sadaiah	
13	Eco- Club Activities	A	Technical Project Under Community Service(18 Projects)	
14	Name of the Consumer Club Coordinator & Mobile No.	C	* Activity not planned	
15	Consumer Club Activities	C	* Activity not planned	
16	Innovation Activity club	C	* Activity not planned	<i>Need improvement</i>
17	Technology Development and Transfer Cell Activities	C	* Activity not planned	<i>Need improvement</i>
18	Any other Club	A	Mechanical Engineering Students Association	

\*: Prepared for current academic year




#### IV-LEARNING RESOURCES

1	Name of the Librarian & Mob.No		S.P.Vaidya,94233382280
2	Access timings of the Library	A	9.30 Am and 5.30 PM. on working days. The library hours are extended during the time of final examinations.
3	Circulation of Books among Students	B	LIBMAN (Library Software) is used for circulation transaction. Library also runs book bank scheme sponsored by the Govt. of Maharashtra. <a href="http://dbatulibrary/opac">http://dbatulibrary/opac</a> or <a href="http://172.16.5.238/opac">http://172.16.5.238/opac</a> online public access catalogue is used.
4	Availability of Previous years Question papers	A	Last 3 years question papers are available with course files for each course is prepared by every faculty members.
5	Availability of model answers of previous examinations	A	Last 3 years question papers and model answers are available with course files for each course is prepared by every faculty members.
6	Record of Visitors	A	Maintained by University Library .The library is having open

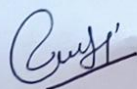
\*: Prepared for current academic year





			access.	
7	Status of Library Automation	A	The library is partially computerized with the help of LIBMAN (Library Software). The circulation transaction, Barcode generation, No dues certificates, Reminder etc. work is carried out with the help of this software.	
8	e-Lessons & e-Resources/ e-Journals	A	Various Journals and Resources are subscribed and available online	
9	Usage of Internet by students in the Library	A	Library has separate computer section around 20 computers are available with internet connectivity for students for accessing online journals and e-books.	
10	Name of SWAYAM Coordinator & Mob. No	A	Dr.R.S.Pawade,8698559938	
11	Status of SWAYAM facilities functioning	A	University is recognized as an ACTIVE Local Chapter. EduSat hall is used.	
12	Whether SWAYAM schedule is circulated to the students	A	It is circulated by Dr.R. S. Pawade and Dr. S .L. Nalbalwar	

\*: Prepared for current academic year

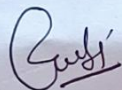
13	Maintenance of SWAYAM Viewers' Register	A	Partially maintained at University Level by concerned coordinator	
<b>VII-Student Support Activities</b>				
1	Name of the Physical/Sports Director & Mob.No		Dr. P. B. Lokhande, 8600674584	
2	Record of Physical Education/Sports Department	A	Record is maintained at university level	
3	Records of events conducted	A	Inter-Collegiate Sports Meet 2018-2019, Inter University Sports meet, Ransangram Inter departmental Sport Event. Dept students' Participation Record maintained. Detailed Record is maintained at university level.	
4	Records of significant achievements in Sports & Games	A	List of winners from Mechanical Engineering department in Sports events is available. Detailed Record is maintained at university level.	
5	Record of Cultural programmes conducted	A	Dept students' Participation Record maintained. Detailed Record is maintained at university level.	
6	Record of any other extra-curricular	A	Dept students' Participation Record maintained.	

\*: Prepared for current academic year

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	activities conducted			
7	Maintenance of Placement Cell facilities & records	A	Detailed Record is maintained at university level.	
8	Record of Student trained and placed	A	No students placed in this 2020-21 in campus interview -	
9	Name of Career Guidance Cell Coordinator & Mob.No	A	Dr. N. Agrawal 9422472997	
10	Record of activities Career Guidance	A	Few workshops on start-ups conducted. Record is available.	
11	Departmental Review Committee (DRC) Coordinator & Mob. No.	A	Dr. V.G. Sargade, 9730341788	
12	Implementation of DRC Action Plan	C	*Activity not planned	
13	IQAC activities & maintenance of records , (Action Plan/Minutes	A	IQAC Minutes of Meeting are available. Proof of submission of AQAR is maintained.	

\*: Prepared for current academic year

	of Meeting/Proof of submission of AQAR to NAAC/Activity register etc)			
14	Record of Support by Alumni Association	A	Alumni Association registration is in progress.	
15	Record of Grievance Redressal Cell / Anti Ragging cell	B	Record of Grievance Redressal Cell and Women's Grievance Redressal Committee is maintained at University level.	
16	Record of Anti Ragging cell	A	Available at University Level	

#### VIII-Basic Amenities

1	Maintenance of drinking water	A	Some water coolers and filters are available	
2	Maintenance of sanitation	C	Maintained	
3	Rest room for women students	B	Available at University level on the ground floor	
4	Greenery	A	Maintained at University Level by Estate section	

\*: Prepared for current academic year




5	Cleanliness	A	Maintained at University Level by Estate section
6	Health Care Facility	A	University has its own Primary Health Care Centre
7	Canteen	A	Canteen is available to students and faculties.

#### IX-GOVERNANCE AND LEADERSHIP

1	Management Committee Register	A	Records of various meetings are maintained by Department office.
2	Functioning of Committees in Administration ( Minutes of meetings)	A	Minutes of BoS and Advisory Committee is maintained.
3	Awards/Achievements	A	GATE - 06 students; For the Online course of Refrigeration and Air-Conditioning from NPTEL, three students qualified from the course. Mr. Sameer Ghanavat secured a spot among top 5% at the national level of the online course. GATE -
4	Faculty development initiatives if any	A	Dr. G. S. Warkhade awarded PhD under QIP by NIT Warangal.

\*: Prepared for current academic year





**X - IT INITIATIVES**

1	E-Class rooms ( Number & Usage)	A	01 Smart Classroom (LH 206) is functioning.
2	Internet Centre	A	Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level
3	Computer labs ( No. of labs & working systems)	A	01 Labs (Working PCs)

**XI-Best Practices**

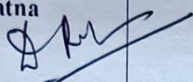
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1	Record of best/innovative practices by the Department	A	1) Prepared curriculum with equal contribution of academia and industry experts Curriculum pathchart with set of stream electives is attached (at department level) 2) Item action Tracker 3) 18 Knowledge area course mapping	
2	Department Activity Register & Hard Copy of AQAR of previous year (should be available with the Principal)	A	Available	
	Over All Impression on the College	A	Available	Annual Report are maintained and submitted by department to VC office.
			<b>Signatures of Academic Advisors</b>  <b>1. Dr. B. S. Gawali</b> Professor Dept of Mechanical Engineering WCE Sangali	

\*: Prepared for current academic year



	<p>2. <b>Dr. Debdatta Ratna</b> <b>(Scientist F)</b> HoD  Polymer Science &amp; Technology Naval Materials Research Laboratory DRDO, Ambarnath (East)</p>	
<b>Signature of the HoD</b>		Note: the Format is to be filled by the HoD and submitted to the Academic Audit Team.

\*: Prepared for current academic year



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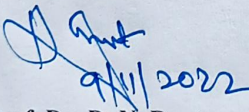
Academic Audit of University Department 2021-2022  
 Format for submission of Academic Advisors Report (AAR)  
 Name of The Department:- Mechanical Engineering


S.No	Item	Grade *	Impression
1	Conduct of Classes	A	Well Conducted ONLINE/Offline, co-teaching shall be encouraged.
2	Co-Curricular Activities & Extra-Curricular Activities	A	Good participation of students in Co-Curricular and extra-curricular activities. Expert talks/Industrial visits through online & offline mode shall be enhanced.
3	College Activity Register	A	Maintained records properly
4	Departmental Activity Registers	A	Well maintained records of different activities.
5	Discipline in the campus	A	Good discipline.
6	IQAC	A	IQAC needs to ensure action taken report by stakeholders for continuous quality improvement & assurance.
7	Placement	C	Good efforts during and after pandemic were taken to enhance the placement.
8	Departmental research	A	Good attempts for research. Research policy may include 1. Project based financial support 2. Support for research setup, product development, technology transfer and hand holding for the entrepreneur. 3. Best researcher award may be constituted. 4. Industrial collaboration for need based research 5. Attempt to install industrial chair and develop industry sponsored lab.
9	Career Guidance Cell	B	Working appropriately.
10	SWAYAM facilities	A	Appropriately available.
11	Library	A	Department library is maintained with good number of volume.
12	Research & Laboratories	A	Good state-of-art, needs to provide more facilities for new technologies.
13	Games & Sports	A	In place.

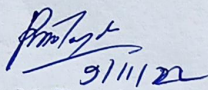
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S.No	Item	Grade *	Impression
14	Humanities and Foundation Courses	A	Included
15	Teacher Evaluation by Students	A	It is in place and well executed.
16	Maintenance of Registers	A	Maintained.
17	Teaching Diaries & Plans	A	Course files are Available with lesson plans
18	NCC / NSS	A	Available
19	Women Empowerment Cell	A	Available at university level.
20	Professional Club	A	SAE, ISHRAE and others at University level.
21	Sanitation & drinking water	A	In good condition
22	Cleanliness	A	Maintained. The entire campus is sanitized on regular interval
23	Functioning of Teachers	A	Very Good
24	Over All Impression on the College	A	Good
25	Any Other important Observation - Need to develop systems to implement NEP 2020.		

\* A(Good)/B( Satisfactory)/C (poor)

  
**Prof. Dr. D. N. Raut**  
 Professor,  
 Dept of Production Engg,  
 VJTI, Matunga, Mumbai

  
**Dr Ramakant Shrivastava**  
 Professor and Head  
 Mech Engg  
 COE Karad MS

  
**Dr. R. M. Tayade**  
 Associate Professor,  
 Dept of Mechanical Engg,  
 VJTI, Matunga, Mumbai

### Academic Audit Summary Sheet (2021-2022)

Institution/University Department: Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad  
 Program Title: Mechanical Engineering  
 Degree Level: Undergraduate  
 Academic Audit Status: 2021-22 is in progress

#### Evaluation Results

		Met/not met	% achieved
<b>1</b>	<b>LEARNING OBJECTIVES AND RESOURCES</b>		
1.1	The Faculty member has prepared Course Files as per the learning objectives of the program	Met	95
1.2	The Faculty member has shared his course file with the students of the class through Intranet/ Social media or any other means	Met	100
1.3	The faculty member documented specific benchmarks of his course to account for learning objectives	Met	90
<b>2.</b>	<b>CURRICULUM AND CO-CURRICULUM</b>		
2.1	The faculty member collaborated with other faculty members for effective design, sequence of courses and delivery of course for improvements and documented these efforts appropriately	Met	85
2.2	The faculty member documented a plan for analyzing the course content in terms of achieving program objectives.	Met	85
2.3	The faculty member documented a plan for review of curriculum and co-curriculum comparing those with the best practices elsewhere or in best institutes	Met	85
<b>3</b>	<b>TEACHING AND LEARNING PROCESSES</b>		
3.1	The faculty member analyzed his/her own methods for improving teaching and learning throughout the program and practiced them.	Met	85
3.2	The faculty member developed and promoted effective instructional methods, other than lecturing, so that student achieve the learning objectives.	Met	85
3.3	The faculty member developed materials for achieving student mastery of learning objectives.	Met	85

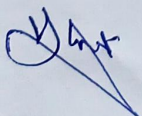
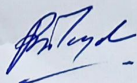
<b>4.0</b>	<b>STUDENT LEARNING ASSESSMENT</b>		
4.1	The Faculty member has announced the method of continuous assessment at the beginning of the course and followed it throughout.	Met	100

*Prof. N. R. Raut*  
 9/11/2022

*Prof. N. R. Raut*  
 9/11/22

*Prof. N. R. Raut*  
 9/11/2022

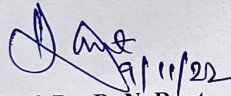
4.2	The faculty member developed techniques, other than written test, for the student learning assessments to improve the program.	Met	90
4.3	The faculty member has documented assessments of student learning	Met	100
4.4	The faculty member has developed measurable indicators of student learning success	Met	90
4.5	The faculty member has developed and documented a continuous improvement plan that incorporates multiple measures to assess student learning and program effectiveness.	Met	90
4.6	The Student has put in his/her own efforts in the learning process from resources outside the Institute.	Met	90
4.7	The students are challenged enough to use their knowledge creatively	Met	75
<b>5.0 QUALITY ASSURANCE</b>			
5.1	There is an existing process in the Institute to understand the parameters of quality of teaching and learning processes	Met	90
5.2	There is an initiative to understand the parameters of quality of teaching and learning processes, if not existing.	Existing	
5.3	There is commitment to making continuous quality improvements in the program a top priority	Met	80
5.4	The performance of students in Internal Assessment and University Examinations is comparable.	Met	90
5.5	There is sufficient feedback obtained from stakeholders in development of academic processes in the College.	Met	90
5.6	There is sufficient evidence of attempts to understand the industries/ Society's need in delivery of appropriate course content to the students	Met	85
<b>6 OVERALL ASSESSMENT</b>			
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	90
6.3	The Audit resulted in a candid description of weaknesses in program processes and suggestions for improvements.	Met	90
6.4	There is openness and thoroughness of the faculty members 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 members	Met	95
<b>7 FOLLOW-UP OF PREVIOUS AUDIT</b>			
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 previous Academic Audit Team have been considered and, when feasible and appropriate, implemented and tracked	Met	90

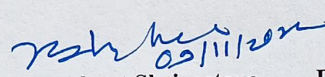



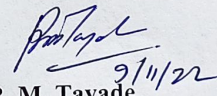
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7.3	There is documented evidence that the program has been implemented and tracked the progress of and use of results from improvement initiatives cited by the faculty its self-study.	Met	95
<b>8</b>	<b>SUPPORT</b>		
8.1	The program regularly evaluates 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	85
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 rate sufficient to sustain the quality of the program.	Met	100
8.5	The program has a history of placement rate sufficient to sustain high quality of program outcome.	Met	70
8.6	The Program has a history of generating support from industries and alumni to sustain itself.	Not Met	--

Signatures of Academic Advisors

  
**Prof. Dr. D. N. Raut**  
 Professor,  
 Dept of Production Engg,  
 VJTI, Matunga, Mumbai

  
**Dr Ramakant Shrivastava**  
 Professor and Head  
 Mech Engg  
 COE Karad MS

  
**Dr. R. M. Tayade**  
 Associate Professor,  
 Dept of Mechanical Engg,  
 VJTI, Matunga, Mumbai

**Dr. Babasaheb Ambedkar Technological University**

**Academic Audit of Department**

**Format for submission of Academic Advisors (Auditor) Report (AAR)**

**Name of the University Department:-Mechanical Engineering Period of Audit: 2021 – 2022**

**I-Department Profile**

1	Name of the University Department, Website, email and Ph.No.	Department of Mechanical Engineering, www.dbatu.ac.in, neerajagrawal@dbatu.ac.in, 9422472997		
2	Name of the HoD, email & Mob.No	Dr. Neeraj Agrawal, neerajagrawal@dbatu.ac.in, 9422472997		
3	Name of the Vice-Principal, if any, email & Mob. No.	NA		
4	Name of the IQAC Coordinator, email & Mob. No.	Dr. S. L. Nalbalwar, snalbalwar@dbatu.ac.in ,8793814621		
5	Year of Establishment & own land if any	1992, Yes		
7	NBA accreditation of courses	Not accredited		
8	NAAC Grade with Cycle, Accredited Year & CGPA ( Status of preparation if not Accredited)	B Grade, 1st Cycle,2015,2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb Ambedkar Technological University, Lonere-Maharashtra		
9	UGC Recognition (2F & 12 B)	Yes		
10	Department Working Hours( if shift system mention details of both shifts & give reasons for shift system)	8.00 A.M. TO 6.00 P.M.		
11	No. of Posts Sanctioned: 10	Regular Faculty Working: 12	Contract Faculty Working:05	Visiting Faculty:Nil

\*: Prepared for current academic year

I-Department Profile				
	Item	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation		Recommendation/Suggestions by Academic Advisors
		Grade	Actual Status	
1	Implementation of Annual Departmental Plan	A	Annual department plan was prepared well before start of academic Year	Good
2	Departmental Annual Curricular Plans	A	Curricular plan was prepared.	Good
3	Department Activity Register for the Academic Year	B	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	Satisfactory
4	Departmental Activity Registers	B	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	Satisfactory
5	Add-on Courses (Department-wise) completed during previous year	B	Added in syllabi	Satisfactory
6	Add-on Courses (Department-wise) during current academic year	B	Implemented Product Design Engineering, NAASCOM	Satisfactory
7	Coverage of Syllabus (Average Percentage)	A	Approximately 80% (Student Feedback on Syllabus Coverage is available). Attendance online record is also available on the University web-portal..	Excellent
8	Teaching of Humanities & Foundation Courses	A	Implemented as per guidelines by UGC/AICTE at First Year Engineering	Good
9	Teaching of Environmental Science and Ethics	A	Implemented as per guidelines by UGC/AICTE at First Year Engineering	Good
10	No. of New UG & PG Courses introduced this year:	C	Nil	--

\*: Prepared for current academic year

11	Maintenance of Student Attendance Registers	A	Maintained. For each semester e-attendance record is available.	Excellent
12	Feedback forms on Curriculum from students	A	Feedback forms are filled by students at the end of each semester	Needs to update the form

### III-TEACHING, LEARNING & EVALUATION

1	Teaching Diaries & Teaching Plans in Prescribed Formats	A	Teaching Plan and Course files are maintained by individual faculty members.	Very Good
2	Co-Curricular Activities (Department level)	A	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	Good
3	Academic Competitions (University Level & Above)	A	Fraternity of Information Technology (Students Association) activities and Cynosure tech fest. Participation record is available.	Very Good
4	Conduct of Internal Examinations	A	Continuous assessment is carried out by the individual faculty members. Mid test is conducted by the examination department. Record of Continuous assessment is available.	Satisfactory
5	Subject wise result analysis	A	Record is available.	Good
6	Teacher wise result analysis	A	Record is available.	Good
7	Remedial Classes	B	*Activity not planned	--
8	Record of Evaluation of Teachers by Students	A	Feedback on Teachers by the students is taken and analysis is carried out.	Good

### IV-RESEARCH AND CONSULTANCY

1	Is the Department a Recognized Research Centre	A	Yes, Department is a Recognized Research Centre from academic Year 2015.	Excellent
2	No. of Research Guides in the	A	11	Excellent

\*: Prepared for current academic year



	Department			
3	No. of Research Scholars working for Masters & Ph. D	A	Ph. D – 21 Masters - 03	Very Good
4	Major/Minor/Other Research Projects	A	PG Projects –03 UG Projects/Internships –80 Industry Projects – 22 UG project	Very Good
5	Research Papers Published in previous academic year (International/ National )	A	International Conference - 8 International Journal - 13 National Conferences – 1	Good
6	Papers Presented in previous academic year(International/ National/ State )	A	Total citations = 1475 i10 index = 92 h index = 68	Excellent
7	Books Published in previous Academic year ( Single Author/ Co Author)	A	One book is published	Good
8	Seminars/Workshops/ Training Programme Conducted (International/ National/ State )	A	Workshop on FEAST Software	Good
9	Record of Consultancy in previous academic year	B	*Activity not planned	Need to enhance
10	Record of MoUs in academic year	A	3	Good
<b>VI-EXTENSION ACTIVITIES</b>				
1	Record of Subject/Department Related Extension Activities	A	Record of activities is maintained by the department	Excellent

\*: Prepared for current academic year

2	Name of the NSS PO & Mobile No.		Dr. H. N. Warahtkar, 9403316374
3	NSS Attendance register	A	Maintained at University Level
4	NSS Activity register	A	Maintained at University Level
5	Name of the NCC ANO & Mobile No.		Major Dr. M. P. Bhagat, 7588265601
6	NCC Attendance register	A	Maintained at University Level
7	NCC activity register	A	Maintained at University Level. Annual Activity Report 2018-19 is maintained by the department.
8	Name of the professional Club Coordinator & Mobile No.		SAE Dr. R. S. Pawade Mo. No. - 8698559938 ISHRAE Dr. N Agrawal Mo. No. - 9422472997
9	Professional Club Activities	A	ISHRAE Quiz, Slambook Competition, Mock Interview, Tech-click, etc.
10	Name of the Women Empowerment Cell (WEC) Coordinator & Mobile No.		Dr. M. D. Laddha
11	WEC Activities	A	Maintained at University Level
12	Name of the Eco-Club Coordinator & Mobile No.		Dr. R. P. Kate
13	Eco- Club Activities	A	A few TPCS project on sustainable development.
14	Name of the Consumer Club Coordinator & Mobile No.		Mrs. M. U. Sakate

\*: Prepared for current academic year

15	Consumer Club Activities	A	Stationary and educational materials are available at campus	
16	Innovation Activity club	C	*Activity not planned	
17	Technology Development and Transfer Cell Activities		*Activity not planned	
18	Any other Club	A	Mechanical Engineering Students Association	
<b>IV-LEARNING RESOURCES</b>				
1	Name of the Librarian & Mob.No		S.P.Vaidya,/ Mr. Ajay Palkar 9028647912, 94233382280	
2	Access timings of the Library	A	9.30 Am and 5.30 PM. on working days. The library hours are extended during the time of final examinations.	
3	Circulation of Books among Students	A	LIBMAN (Library Software) is used for circulation transaction. Library also runs book bank scheme sponsored by the Govt. of Maharashtra. <a href="http://dbatulibrary/opac">http://dbatulibrary/opac</a> or <a href="http://172.16.5.238/opac">http://172.16.5.238/opac</a> online public access catalogue is used.	
4	Availability of Previous years Question papers	A	Last 3 years question papers are available with course files for each course is prepared by every faculty members.	
5	Availability of model answers of previous examinations	A	Last 3 years question papers and model answers are available with course files for each course is prepared by every faculty members.	
6	Record of Visitors	A	Maintained by University Library .The library is having open access.	
7	Status of Library Automation	A	The library is partially computerized with the help of LIBMAN (Library Software).The circulation transaction, Barcode generation, No dues certificates, Reminder etc. work is carried out with the help of this software.	
8	e-Lessons & e-Resources/ e-Journals	A	Various Journals and Resources are subscribed and available online	
9	Usage of Internet by students in the Library	A	Library has separate computer section around 20 computers are available with internet connectivity for students for	

\*: Prepared for current academic year

			accessing online journals and e-books.	
10	Name of SWAYAM Coordinator & Mob. No		Dr.R.S.Pawade,8698559938	
11	Status of SWAYAM facilities functioning	A	University is recognized as an ACTIVE Local Chapter. EduSat hall is used.	
12	Whether SWAYAM schedule is circulated to the students	A	It is circulated by Dr.R. S. Pawade and Dr. S. J. Nalbalwar	
13	Maintenance of SWAYAM Viewers' Register	A	16 students registered and successfully completed online courses	
<b>VII-STUDENT SUPPORT ACTIVITIES</b>				
1	Name of the Physical/Sports Director & Mob.No		Dr. P. B. Lokhande, 8600674584	
2	Record of Physical Education/Sports Department	A	Record is maintained at university level	
3	Records of events conducted	A	Detailed Record is maintained at university level.	
4	Records of significant achievements in Sports & Games	A	List of winners from Mechanical Engineering department in Sports events is available. Detailed Record is maintained at university level.	
5	Record of Cultural programmes conducted	A	Dept students' Participation Record maintained. Detailed Record is maintained at university level.	
6	Record of any other extra-curricular activities conducted	A	Dept students' Participation Record maintained.	
7	Maintenance of Placement Cell facilities & records	A	Detailed Record is maintained at university level.	

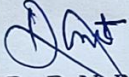
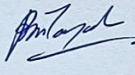
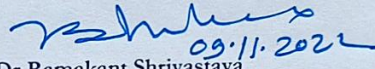
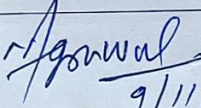
\*: Prepared for current academic year

8	Record of Student trained and placed	A	Students placed in this 2021-22 in campus interview - 04.	
9	Name of Career Guidance Cell Coordinator & Mob.No		Dr. N. Agrawal 9422472997	
10	Record of activities Career Guidance	A	Few workshops on start-ups conducted. Record is available.	
11	Departmental Review Committee (DRC) Coordinator & Mob. No.		Dr. V.G. Sargade, 9730341788	
12	Implementation of DRC Action Plan	A	In place	
13	IQAC activities & maintenance of records , (Action Plan/Minutes of Meeting/Proof of submission of AQAR to NAAC/Activity register etc)	A	IQAC Minutes of Meeting are available. Proof of submission of AQAR is maintained.	
14	Record of Support by Alumni Association	A	Alumni Association registration is done.	
15	Record of Grievance Redressal Cell / Anti Ragging cell	A	Record of Grievance Redressal Cell and Women's Grievance Redressal Committee is maintained at University level.	
16	Record of Anti Ragging cell	A	Available at University Level	
<b>VIII-BASIC AMENITIES</b>				
1	Maintenance of drinking water	B	Sufficient water coolers and filters are available	
2	Maintenance of sanitation	B	Maintained	
3	Rest room for women students	A	Available at University level on the ground floor	

\*: Prepared for current academic year

4	Greenery	A	Maintained at University Level by Estate section	
5	Cleanliness	A	Maintained at University Level by Estate section	
6	Health Care Facility	A	University has its own Primary Health Care Centre	
7	Canteen	A	Canteen is available to students and faculties.	
<b>IX-GOVERNANCE AND LEADERSHIP</b>				
1	Management Committee Register	A	Records of various meetings are maintained by Department office.	
2	Functioning of Committees in Administration ( Minutes of meetings)	A	Minutes of BoS and Advisory Committee is maintained.	
3	Awards/Achievements	B	GATE - 2 Other achievements - 2	
4	Faculty development initiatives if any	A	Online training programmes on UHV, Pedagogical skill, Quizzes etc	
<b>X - IT INITIATIVES</b>				
1	E-Class rooms ( Number & Usage)	A	01 Smart Classroom (LH 206) is functioning.	
2	Internet Centre	A	Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level; Few Wi-Fi connections available	
3	Computer labs ( No. of labs & working systems)	B	01 Labs (35 Working PCs)	
<b>XI-BEST PRACTICES</b>				
1	Record of best/innovative	B	1)Prepared curriculum with equal contribution of academia and industry experts Curriculum pathchart with set of stream	

\*: Prepared for current academic year

	practices by the Department		electives is attached (at department level) 2) 18 Knowledge area course mapping	
2	Department Activity Register & Hard Copy of AQAR of previous year (should be available with the Principal)	A	Available	
3	Over All Impression on the College	A	Very Good	
		<b>Signatures of Academic Advisors</b>  <b>Dr. D. N. Raut</b> 9/11/2022 Professor Dept of Production Engineering VJTI, Mumbai   <b>Dr. R. M. Tayade</b> 9/11/22 Associate Professor, Dept of Mechanical Engineering, VJTI, Mumbai		 <b>Dr Ramakant Shrivastava</b> 09.11.2022 Professor and Head Mech Engg COE Karad MS
	Signature of the HoD		 <b>Dr. Neeraj Agrawal</b> , Professor, Department of Mechanical Engineering 9/11/2022	

\*: Prepared for current academic year

Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad

Academic Audit of Department

Format-I (Department Data)

Name of the University Department:- Mechanical Engineering Period of Audit: July 2021 – June 2022

I-Department Profile

1	Name of the University Department, Website, email and Ph.No.	Department of Mechanical Engineering, www.dbatu.ac.in, neerajagrawal@dbatu.ac.in, 9422472997		
2	Name of the HoD, email & Mob.No	Dr. Neeraj Agrawal , neerajagrawal@dbatu.ac.in, 9422472997		
3	Name of the Vice-Principal, if any, email & Mob. No.	NA		
4	Name of the IQAC Coordinator, email & Mob. No.	Dr. S. L. Nalbalwar, snalbalwar@dbatu.ac.in ,8793814621		
5	Year of Establishment & own land if any	1992, Yes		
7	NBA accreditation of program	Not accredited		
8	NAAC Grade with Cycle, Accredited Year & CGPA ( Status of preparation if not Accredited)	B Grade, 1st Cycle, 2015, 2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb Ambedkar Technological University, Lonere-Maharashtra		
9	UGC Recognition (2F & 12 B)	Yes		
10	Department Working Hours( if shift system mention details of both shifts & give reasons for shift system)	8.00 A.M. TO 6.00 P.M.		
11	No. of Posts Sanctioned: 19	Regular Faculty Working: 12	Contract Faculty Working: 05	Adjunct Faculty:- NIL

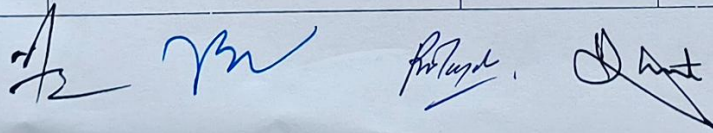




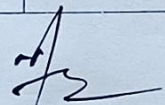
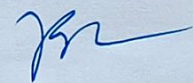

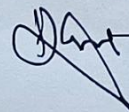
I-Department Profile				
	Item	Status ( Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation	Recommendation/Suggestions by Academic Advisors
			Grade	
12	Implementation of Annual Departmental Plan	Annual department plan was prepared well before start of academic Year	B	30% of planned expenses
13	Departmental Annual Curricular Plans	Curricular plan was prepared well before start of semester.	A	Well Implemented
14	Whether the above two circulated among Students?	Annual Institutional Plan is available on university Website	A	Well Implemented
15	Department Activity Register during the academic year	Department has maintained Registers for Departmental meetings and BoS meetings. All Minutes of meetings have been recorded.	A	Well maintained
16	Department Calendar/Department Magazine	Available on DBATU website	C	
17	Add-on Courses (Department-wise) completed during previous year	PDE II	A	Need to be enhanced
18	Add-on Courses (Department-wise) during current academic year	TATA TECHNOLOGY (Automobile Design)	A	Need to be enhanced
19	Coverage of Syllabus (Average Percentage)	Approximately 80% (Student Feedback on Syllabus Coverage is available). Attendance online record is also available on the University web-portal.	A	Well Implemented
20	Teaching of Humanities & Foundation Courses	Implemented as per guidelines by UGC/AICTE at First Year Engineering	A	Incorporated as per UGC/AICTE guidelines
21	No. of New UG & PG Programs introduced this year:	Proposed	B	Need to be enhanced
22	Maintenance of Student Attendance Registers	Maintained. for each semester e-attendance record is available.	A	Well Maintained

III-TEACHING, LEARNING & EVALUATION				
23	Teaching Diaries & Teaching Plans in Prescribed Formats	Teaching Plan and Course files are maintained by individual faculty members.	A	Available
24	Co-Curricular Activities ( Department level)	Fraternity of Information Technology (Students Association) activities and ISHARE BAHA. Participation record is available.	A	SAE, ISHRAE, etc. Online Expert Lecture
25	Academic Competitions ( University Level & Above)	Fraternity of Information Technology (Students Association) activities. Participation record is available.	A	SAE, ISHRAE, etc.
26	Conduct of Internal Examinations-Unit, Half-Yearly and Prefinal	Continuous assessment is carried out by the individual faculty members. Mid test is conducted by the examination department. Record of Continuous assessment is available.	A	Routinely done
27	Subject wise result analysis	Record is available.	A	Action taken for low result shall be added
28	Teacher wise result analysis	Record is available.	A	ATR may be added
29	Remedial Classes	Nil, However, students are free to approach individual teacher to solve the doubt.	C	Considering Lock down on line classes might be arranged.
30	Record of Evaluation of Teachers by Students	Feedback on Teachers by the students is taken and analysis is carried out.	A	Well Implemented
IV-RESEARCH AND CONSULTANCY				
31	Is the Department a Recognized Research Centre	Yes, Department is a Recognized Research Centre.	A	
32	No. of Research Guides in the	11		7 Professors and 4 Associate professors 1

	Department		A	Assistant Professor
33	No. of Research Scholars working for Masters & Ph. D	Ph. D – 21 Masters – 03	A	
34	Major/Minor/Other Research Projects	PG Projects –03 UG Projects/Internships –80 Industry Projects – 22 UG project	A	
35	Research Papers Published in previous academic year (International/ National )	International Conference - 8 International Journal - 13 National Conferences – 1	A	
36	Papers Presented in previous academic year(International/ National/ State )	Total citations = 1475 i10 index = 92 h index = 68	A	
37	Books Published in previous Academic year ( Single Author/ Co Author)	Dr. D. B. Waghmare published book in Marathi Language	A	
38	Seminars/Workshops/ Training Programme Conducted (International/ National/ State )	Workshop on FEAST Software	A	
39	Record of Consultancy in previous academic year	No	B	Need to be enhanced
40	Record of MoUs in previous academic year	3	B	Need to be enhanced
<b>VI-EXTENSION ACTIVITIES</b>				
41	Record of Subject/Department Related Extension Activities	Record of activities is maintained by the department	A	NSS/Training /etc.
42	Name of the NSS PO & Mobile No.	H. N. Warahtkar, 9403316374		
43	NSS Attendance register	Maintained at University Level	A	Actively participants from Mechanical department (36 Students)

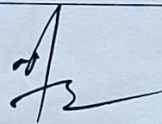


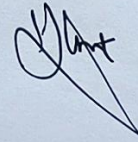


44	NSS Activity register	Maintained at University Level	A	Maitained at University Level
45	Name of the NCC ANO & Mobile No.	M. P. Bhagat, 7588265601		
46	NCC Attendance register	Maintained at University Level	A	Maitained at University Level
47	NCC activity register	Maintained at University Level. Annual Activity Report 2017-18 is maintained by the department.	A	Maitained at University Level
48	Name of the professional Club Coordinator & Mobile No.	SAE Dr. R. S. Pawade Mo. No. - 8698559938 ISHRAE Dr. N Agrawal Mo. No. - 9422472997		
49	Professional Club Activites	ISHRAE Orientation program, Tech Opinion, Poster making competition, ISTL, CINE QUIZ COMPETITION.	A	
50	Name of the Women Empowerment Cell (WEC) Coordinator & Mobile No.	Maintained at University Level	A	Maintained at University Level
51	WEC Activities	Maintained at University Level	A	
52	Name of the Eco-Club Coordinator & Mobile No.	Dr. R. P. Kate		

53	Eco- Club Activities	A few TPCS project on sustainable development.	A	
54	Name of the Consumer Club Coordinator & Mobile No.	Mrs. M. U. Sakate		
55	Consumer Club Activities	Stationary and educational materials are available at campus	A	
56	Any other Club	Mechanical Engineering Students Association (MESA)	A	MESA, X'EJ.ERATE
<b>IV-LEARNING RESOURCES</b>				
57	Name of the Librarian & Mob. No	S.P.Vaidya,/ Mr. Ajay Palkar 9028647912, 94233382280		
58	Access timings of the Library	9.30 Am and 5.30 PM. on working days. The library hours are extended during the time of final examinations.	A	
59	Circulation of Books among Students	LIBMAN (Library Software) is used for circulation transaction. Library also runs book bank scheme sponsored by the Govt. of Maharashtra. <a href="http://dbatulibrary/opac">http://dbatulibrary/opac</a> or <a href="http://172.16.5.238/opac">http://172.16.5.238/opac</a> online public access catalogue is used.	B	Book bank, etc.
60	Availability of Previous years Question papers	Last 3 years question papers are available with course files for each course is prepared by every faculty members.	A	Last Three years question papers are available with department.
61	Record of Visitors	Maintained by University Library .The library is having open access.	A	Maitained by Library and Department Library is maintained by Lab Assistant.
62	Status of Library Automation	The library is partially computerized with the help of LIBMAN (Library Software).The circulation transaction, Barcode generation, No dues certificates, Reminder etc. work is carried out with the help of this software.	A	LIB MAN Software
63	e-Lessons & e-Resources/ e-Journals	Various Journals and Resources are subscribed and available online	A	Need to subscribe more journals.

64	Usage of Internet by students in the Library	Library has separate computer section around 20 computers are available with internet connectivity for students for accessing online journals and e-books.	A	Available
65	Name of SWAYAM Coordinator & Mob. No	Dr.R.S.Pawade,8698559938		
66	Status of SWAYAM facilities functioning	University is recognized as an ACTIVE Local Chapter. EDUSAT hall is used.	A	
67	Whether SWAYAM schedule is circulated to the students	It is circulated by Dr. R. S. Pawade and Dr. S. L. Nalbalwar	A	
68	Maintenance of SWAYAM Viewers' Register	Maintained at Dept Level by concerned coordinator, around 120 students had attained Fluid Mechanics and Heat Transfer NPTEL online lectures.	A	
<b>VII-STUDENT SUPPORT ACTIVITIES</b>				
69	Name of the Physical/Sports Director & Mob.No	Dr. P. B. Lokhande, 8600674584		
70	Record of Physical Education/Sports Department	Record is maintained at university level	A	Need to improve
71	Records of events conducted	Online	A	Record is maintained at university level
72	Records of significant achievements in Sports & Games	List of winners from mechanical department in Sports events is available. Detailed Record is maintained at university level.	A	Record is maintained at university level
73	Record of Cultural programmes conducted	Dept students' Participation Record maintained. Detailed Record is maintained at university level.	A	Record is maintained at university level
74	Record of any other extra-curricular activities conducted	Dept students' Participation Record maintained.	A	Record is maintained at university level, However extra-curricular activities can be increase by establishing entrepreneurship, robotics, aero-vehicles cells

75	Maintenance of Placement Cell facilities & records	Detailed Record is maintained at university level.	B	Need to improve
76	Record of Student trained and placed	Students placed in this 2021-22 in campus interview - 04.	B	Need to improve
77	Name of Career Guidance Cell Coordinator & Mob. No	Dr. N. Agrawal 9422472997		
78	Record of activities Career Guidance	Few online workshops were conducted.	A	Soft skills development programs are conducted at university level.
79	Departmental Review Committee (DRC) Coordinator & Mob. No.	Dr. V.G. Sargade, 9730341788		
80	Implementation of DRC Action Plan	*Activity not planned		
81	IQAC activities & maintenance of records , (Action Plan/Minutes of Meeting/Proof of submission of AQAR to NAAC/Activity register etc)	IQAC Minutes of Meeting are available. Proof of submission of AQAR is maintained.	A	
82	Record of Support by Alumni Association	Alumni Association registration is in progress	B	Records of various Achievements are maintained by HoD office.
83	Record of Grievance Redressal Cell / Anti Ragging cell	Record of Grievance Redressal Cell and Women's Grievance Redressal Committee is maintained at University level.	A	Suggestion box can be implemented at department
84	Record of Anti Ragging cell	Available	A	Record is maintained at university level
<b>VIII-BASIC AMENITIES</b>				
85	Maintenance of drinking water	Some water coolers and filters are available	B	Water coolers and filters are available in the campus.
86	Maintenance of sanitation	Maintained	B	Need to improve
87	Rest room for women students	Available at University level on the ground floor	A	available at every floor
88	Greenery	Maintained at University Level by Estate section	B	University workers are appointed for the purpose.
89	Cleanliness	Maintained at University Level by Estate	B	University workers are appointed for the

		section		purpose
90	Health Care Facility	University has its own primary health care centre	A	First Aid Kit is available with department
91	Canteen	Canteen is available to students and faculties.	A	Available
<b>IX-GOVERNANCE AND LEADERSHIP</b>				
92	Management Committee Register	Records of various meetings are maintained by Department office.	A	Records of various meetings are maintained by HOD office.
93	Functioning of Committees in Administration (Minutes of meetings)	Minutes of BoS and Advisory Committee is maintained.	A	Various committees are available at department level with participation of faculty, parents and teacher.
94	Awards/Achievements	GATE - 2 Other achievements - 2	A	Need to enhance number
95	Faculty development initiatives if any	Online training programmes on UHV, Pedagogical skill, Quizzes etc	A	
<b>X - IT INITIATIVES</b>				
96	E-Class rooms (Number & Usage)	01 Smart Classroom (LH 206) is functioning.	A	Enhance number of classroom
97	Internet Centre	Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level; Few Wi-Fi connections available	A	Computer center with own server is available at University. Connectivity should be improved
98	Computer labs (No. of labs & working systems)	01 Labs (35 Working PCs)	B	Enhance computing facility hardware
<b>XI-BEST PRACTICES</b>				
99	Record of best/innovative practices by the Department	1) Prepared curriculum with equal contribution of academia and industry experts Curriculum path chart with set of stream electives is attached (at department level) 2) 18 Knowledge area course mapping	B	Workshop on recent trends, Community Projects etc. are conducted by department.
100	Department Activity Register & Hard Copy of AQAR of previous year ( should be available with the Principal)	Available	A	Annual Report are maintained and submitted by department to VC office.
<b>Signatures of Academic Advisors</b>				



	<p><i>[Signature]</i>  <b>Prof. Dr. D. N. Raut</b>          Professor,          Dept of Production Engg,          VJTI, Matunga, Mumbai</p> <p><i>9.11.2022</i></p>	<p><i>[Signature]</i>  <b>Dr Ramakant Shrivastava</b>          Professor and Head          Mech Engg          COE Karad MS</p>	<p><i>[Signature]</i>  <b>Dr. R. M. Tayade</b>          Associate Professor,          Dept of Mechanical Engg,          VJTI, Matunga, Mumbai</p> <p><i>9/11/22</i></p>
	Signature of the HoD		
	<p><i>[Signature]</i>  <b>Dr. Neeraj Agrawal,</b>          Professor,          Department of Mechanical Engineering</p> <p><i>9/11/2022</i></p>		
	Note: the Format is to be filled by the HoD and submitted to the Academic Audit Team.		