# 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

| 1   | LEARNING OR LECTRONS   | Met/not<br>met | %<br>achieved |
|-----|--|----------------|---------------|
| 1.1 | LEARNING OBJECTIVES AND RESOURCES  |                | acmeved       |
|     | The Faculty member has prepared Course Files as per the learning objectives of the program   | Partially      | 80%           |
| 1.2 | The Faculty members have been been been been been been been be   | Met            | 00%           |
|     | The Faculty member has shared his course file with the students of the class through Intranet/ Social media  | Partially      | 80%           |
| 1.3 | the class through Intranet/ Social media or any other means  | Met            | 0070          |
|     | The faculty member documented specific benchmarks of his course to account for learning objectives   | Not Met        |               |
| 2.  | CURRICULUM AND CO-CURRICULUM   |                |               |
| 2.1 | The faculty member collector to the faculty member collector of the faculty member collector o | -              |               |
|     | The faculty member collaborated with other faculty members for effective design, sequence of courses   | Partially      | 50%           |
|     | effective design, sequence of courses and delivery of course for<br>improvements and documented these all  | Met            | 5070          |
| 2.2 | improvements and documented these efforts appropriately  |                |               |
|     | The faculty member documented a plan for analyzing the course<br>content in terms of achieving program objectives.   | Partially      | 60%           |
| 2.3 | The faculty member documented  | Met            | 0070          |
|     | The faculty member documented a plan for review of curriculum and co-curriculum comparing these and the second sec | Not Met        |               |
|     | and co-curriculum comparing those with the best practices<br>elsewhere or in best institutes   |                |               |
| 3   | TEACHING AND LEARNING PROCESSES  |                |               |
| 3.1 | The faculty member analyzed his/her own methods for improving teaching and learning throughout d   |                |               |
|     | teaching and learning throughout the   | Partially      | 50%           |
| 3.2 | teaching and learning throughout the program and practiced them.<br>The faculty member developed and promoted effective  | Met            | 2070          |
|     |  | Partially      | 60%           |
|     | instructional methods, other than lecturing, so that student achieve<br>the learning objectives.   | Met            | 0070          |
|     | The faculty member developed   |                |               |
|     | The faculty member developed materials for achieving student mastery of learning objectives.   | Partially      | 50%           |
| 4.0 | STUDENT LEARNING ASSESSMENT  | Met            |               |
| 1.1 | The Faculty member has a see   |                |               |
|     | The Faculty member has anounced the method of continuous assessment at the basicing of the faculty of the basicing of the faculty of the facu | Met            | 90%           |
|     | assessment at the beginning of the course and followed it throughout.  |                |               |
| .2  | The faculty member developed to the  |                |               |
|     | The faculty member developed techniques, other than written test, for the student learning assessments to be   | Partially      | 60%           |
| .3  |  | Met            |               |
|     | The faculty member has documented assessments of student learning  | Met            | 100%          |
|     | in an in the second s  |                |               |
|     | The faculty member has developed measurable indicators of student learning success   | Met            | 80%           |
|     |  |                |               |
|     | The faculty member has developed and documented a continuous mprovement plan that incorporates multiple  | Met            | 60%           |
|     | Presentation print that moor borales milling a manapusas to  |                |               |
|     | Autom realining and program attactiveness  |                |               |
|     | The Student has put in his/her own efforts in the learning process   | Partially      | 50%           |
| -   | ion resources outside the institute  | Met            | 5070          |
| 7 T | he students are challenged enough to use their knowledge   |                | 609/          |
|     | realivery  | Met            | 60%           |
| Ç   | VALITYASSURANCE  |                | a decidence a |
| T   | here is an existing process in the Institute to under the  | Partially      |               |
|     | arameters of quality of teaching and learning processes  | Partially      | 50%           |

| 5.2 |   |               | Partiall<br>Met   | y 50%  |
|-----|---|---------------|---|--|
| -   | teaching and learning processes if not existing.  |               | Partiall  | y 70%  |
| 5.3 | shere is communent to making commune i  | ino           | Met   |  |
| 5.4 | in the program a top priority   | city          | Partially   | 80%  |
| 2.4 | performance of students in internal research  | Sity          | Met   |  |
| 5.5 | Examinations is comparable.   |               | Partially   | 50%  |
| 5.5 | and a sufficient recuback obtained from stakenorders in   |               | Met   | 0070   |
| 5.6 | development of academic processes in the College.   |               |   | 25%  |
| 5.0 | there is sufficient evidence of attempts to understand the  |               | Partially   | 2570   |
|     | industries/ Society's need in delivery of appropriate course contents   | ent           | Met   |  |
| 6   | OVERALL ACCREATE  |               | a la compañía de la c |  |
| 6.1 | OVERALL ASSESSMENT  |               |   | 0.001  |
|     | The Academic Audit process was Faculty driven.  | 12723 3 2 2 2 | Partially   | 80%  |
| 6.2 | The Academic An I'  |               | Met   | and the second second  |
|     | The Academic Audit process (self-study and visit) included descriptions of the process  | I             | Partially   | 60%  |
|     | descriptions of the program's quality processes including all five<br>focal areas.  | 1 1           | Met   | Contraction of the second  |
| 6.3 | The Audit resulted in a candid description of weaknesses in program processes and august  |               |   | 10000  |
|     |   |               | Partially   | 70%  |
| 6.4 | is openiness and moroughpage of the contraction of the  |               | Aet   |  |
|     |   |               | artially  | 80%  |
| 6.5 | Augurinic Alight process in 1 1 1   | N             | 1et   | 0.001  |
|     | from stakeholder groups identified by the program's faculty members   |               | artially  | 80%  |
| 7   | members FOLL conversion groups identified by the program's faculty  | IV.           | let   |  |
| 7.1 | FOLLOW-UP OF PREVIOUS AUDIT   |               |   | and and the second   |
|     | An action plan was developed as a result of the previous Academi<br>Audit.  | c V           | es  |  |
| 7.2 | There is documented it  |               | 03  |  |
|     | There is documented evidence that recommendations made by the previous Academic Audit Team have been  | Ye            | es  | -  |
|     | feasible and appropriate imply  |               |   |  |
| 7.3 | There is documented avidance if internet and tracked.   |               |   |  |
|     | implemented and tracked the progress of and use of results from<br>improvement initiatives cited by the fear land use of results from                     | Ye            | s   | - 1.1.1.1.1  |
|     | improvement initiatives cited by the faculty its self-study.  |               |   |  |
|     | SUPPORT   |               |   | and the first  |
| 1   | The program regularly and the interview   |               |   |  |
|     | The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources | Yes           | . 8   | 0%   |
|     | of overall college resources.   |               |   |  |
| 2   | The program's operating budget is consistent with the   |               |   |  |
| -   | program.  | Yes           | 8   | 0%   |
| 3   | The program has a history of enrolment rates sufficient to sustain<br>high guality and cost-effectiveness   | Yes           |   |  |
|     |   | res           |   | 00%  |
|     | The program has a history of graduation rate sufficient to sustain he quality of the program.   | Yes           | 10  | 0%   |
|     | a quanty of the program   | -             | 1.0   |  |
| h   | The program has a history of placement rate sufficient to sustain<br>igh quality of program outcome.  | Partia        | Illy 15   | 2%   |
|     |   | Met           |   |  |
| a   | he Program has a history of generating support from industries<br>nd alumni to sustain itself.  | Partia        | lly 10%   | 10   |
|     |   | Met           |   |  |
|     |   |               |   | and the second |

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

Dr. P. M. Karande Associate Professor, Mechanical Engineering Department, VJTI Mumbai Dr. Babasaheb Ambedkar Technological University, Lonere

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

|    | Contraction of the Department: - Mechanical Engineering          |            |  |  |  |  |
|----|--|------------|--|--|--|--|
|    |  | Grade<br>* | Impression   |  |  |  |
| 1  | Conduct of Classes   | А          | Well Conducted   |  |  |  |
| 2  | Co-Curricular<br>Activities & Extra-<br>Curricular<br>Activities | А          | Good participation of students in Co-Curricular and extra-curricular activities.   |  |  |  |
| 3  | College Activity<br>Register                                     | А          | Maintained records properly  |  |  |  |
| 4  | Departmental<br>Activity Registers                               | А          | Well maintained records of different activities.   |  |  |  |
| 5  | Discipline in the campus   | А          | Good discipline.   |  |  |  |
| 6  | IQAC   | А          | IQAC is ensuring to enhanced the overall quality.  |  |  |  |
| 7  | Placement  | С          | Lots of efforts are required to increase the placement records.  |  |  |  |
| 8  | Departmental<br>research   | А          | Good research outcome, more patents can be filed.  |  |  |  |
| 9  | Career Guidance<br>Cell  | В          | Separate career guidance activities need to be established in TPO cell.  |  |  |  |
| 10 | SWAYAM<br>facilitics   | В          | Syndicate room can be used fully to provide self learning courses to students.   |  |  |  |
| 11 | Library  | Α          | Proper book orientation and book shelves need to be provided on urgent basis.  |  |  |  |
| 12 | Research &<br>Laboratories                                       | В          | Many of the laboratories don't have partitions and proper demarcation.<br>Separate sitting arrangement with writing boards must be established at<br>the earliest. |  |  |  |
| 13 | Games & Sports   | В          | Can do better by motivating students to participate in various games   |  |  |  |

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

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

Jalen Signatures of Academic Advisors 1 Dr. S. A. Mastud (Head and Associate Professor, Mechanical Engineering VJTI Mumbai) Dr. P. M. Karande (Associate Professor, Mechanical Engineering VJTI Mumbai) 2 Dr. P. M. Karande 3. Pr. M. Sadaiah, HoD, Mich. Eng. 4. Dr. A.N. Szigh IORAC Directe. Lafert 11/2/8

|   | Dr. Babasaheb Ambedkar Technological University  |   |   |                        |  |  |
|---|--|---|---|------------------------|--|--|
|   | Academic Audit of Department   |   |   |                        |  |  |
| -   |  | Department Data)  |   |                        |  |  |
|   | e of the University Department:- Mechanical Engine   | ering   | Period of Audit: July 20  | <u>)17 – June 2018</u> |  |  |
| 1-De  | 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 Sada  | aiah, msadaiah@dbatu.ac.i   | n, 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 |  |   | ngh@dbatu.ac.in ,8087369  | 025                    |  |  |
| 5   | Year of Establishment & own land if any  | 1992, Yes   |   |                        |  |  |
| 7   | NBA accreditation of courses   | Not accreditated  |   |                        |  |  |
| 8   | NAAC Grade with Cycle, Accredited Year & CGPA<br>(Status of preparation if not Accredited)                   | Date- EC(SC)_05_A   | 2015, 2.35 NAAC Executiv<br>&A _083 dated 3-3-2015-<br>gical University, Lonere-M | Dr. Babasaheb          |  |  |
| 9   | UGC Recognition (2F & 12 B)  | Yes   |   |                        |  |  |
| 10  | Department Working Hours( if shift system mention details<br>of both shifts & give reasons for shift system) | 8.00 A.M. TO 6.00   | P.M.  |                        |  |  |
| 1   | No. of Posts Sanctioned: 19  | Regular Faculty<br>Working: 12  | Contract Faculty<br>Working: 06   | Adjunct Faculty:01     |  |  |

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| 1  |   | I-D   | epartment Profile  |  |
|----|---|---|--|--|
|    | Item  | Item Status (Give Details, not just<br>Yes/No)  | Impression of Academic Advisor along<br>with grade A(Good)/B(Satisfactory)/C<br>(poor) after Observation | Recommendation/Suggestions by<br>Academic Advisors |
|    | 1   |   | Grade  |  |
| 12 | Implementation of<br>Annual Departmental<br>Plan            | Annual department plan was<br>prepared well before start of<br>academic Year  | А  | Well Implemented                                   |
| 13 | Departmental Annual<br>Curricular Plans                     | Curricular plan was prepared well<br>before start of semester.  | А  | Well Implemented                                   |
| 14 | Whether the above<br>two circulated among<br>Students?      | Not Circulated (Annual<br>Institutional Plan is available on<br>university Website)   | А  | Well Implemented                                   |
| 15 | Department Activity<br>Register during the<br>academic year | Department has maintained<br>Registers for Departmental<br>meetings and BoS meetings. All<br>Minutes of meetings have been<br>recorded. | А  | Well maintained                                    |
| 6  | Department<br>Calendar/Department<br>Magazine               | Available on DBATU website  | Α  | Well maintained                                    |

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

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

| 1   |   |  |                    | can be conducted.                       |
|-----|---|--|--------------------|---|
| 30  | Record of Evaluation<br>of Teachers by<br>Students  | Feedback on Teachers by the<br>students is taken and analysis is<br>carried out. | Α                  | Well Implemented                        |
| 100 |   | IV-RESEAR  | CH AND CONSULTANCY |   |
| 31  | Is the Department a<br>Recognized Research<br>Centre                                      | Yes, Department is a Recognized<br>Research Centre.                              | A                  |   |
| 32  | No. of Research<br>Guides in the<br>Department  | 10   | A                  | 2 professors and 8 Associate professors |
| 33  | No. of Research<br>Scholars working for<br>Masters & Ph. D                                | Ph. D – 6<br>Masters - 43  | А                  |   |
| 34  | Major/Minor/Other<br>Research Projects  | PG Projects – 22<br>Major UG Projects – 8<br>Industry Projects - 6               | A                  |   |
| 35  | Research Papers<br>Published in previous<br>academic year<br>(International/<br>National) | 05 International Conference<br>19 International Journal                          | A                  | Conferences: 24                         |
| 36  | Papers Presented in<br>previous academic<br>year(International/<br>National/ State)       | 05   | А                  |   |

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

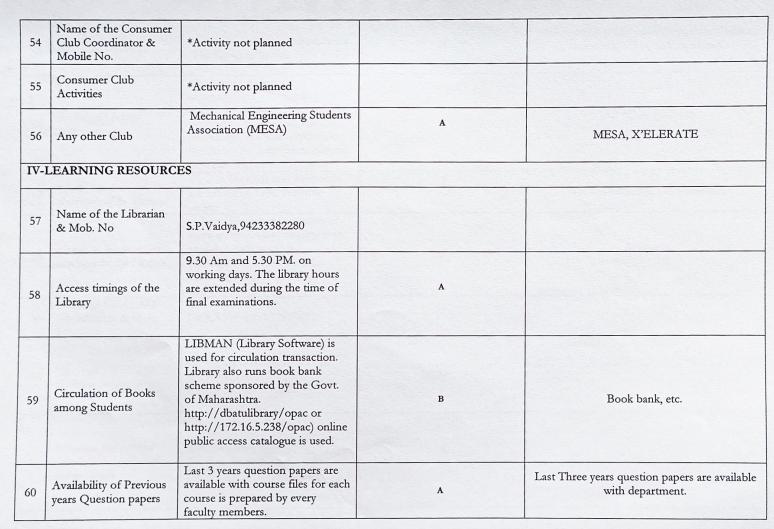
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#### Name of the NCC 45 M. P. Bhagat, 7588265601 ANO & Mobile No. NCC Attendance Maitained at University Level 46 Maintained at University Level register A Maintained at University Level. Maitained at University Level 47 NCC activity register Annual Activity Report 2017-18 is A maintained by the department. SAE Name of the Dr. R. S. Pawade professional Club Mo. No. - 8698559938 48 Coordinator & Mobile ISHRAE No. Dr. N Agrawal Mo. No. - 9422472997 ISHRAE JOB JUNCTION, AQUEST arranged by ISHRAE Professional Club 49 A Activities Mumbai, JAMBOREE, SQL TEST by SAE India Name of the Women

Empowerment Cell 50 Maintained at University Level Maintained at University Level A (WEC) Coordinator & Mobile No. A WEC Activities Maintained at University Level 51 Name of the Eco-Club 52 Coordinator & Mobile Dr. M. Sadaiah No. Technical Project Under Product driven R & D Eco- Club Activities 53 **Community Service** 

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| 61 | Record of Visitors  | Maintained by University Library<br>.The library is having open access.   | ۸ | Maitained by Library and Department Library<br>is maintained by Lab Assistant. |
|----|---|---|---|--|
| 62 | Status of Library<br>Automation                             | The library is partially<br>computerized with the help of<br>LIBMAN (Library Software).The<br>circulation transaction, Barcode<br>generation, No dues certificates,<br>Reminder etc. work is carried out<br>with the help of this software. | Α | LIB MAN Software   |
| 63 | e-Lessons & e-<br>Resources/ e-Journals                     | Various Journals and Resources<br>are subscribed and available<br>online  | В | Need to subscribe more journals.   |
| 64 | Usage of Internet by<br>students in the Library             | Library has separate computer<br>section around 20 computers are<br>available with internet<br>connectivity for students for<br>accessing online journals and e-<br>books.  | Α | Available  |
| 65 | Name of SWAYAM<br>Coordinator & Mob.<br>No                  | Dr.R.S.Pawade,8698559938  |   |  |
| 66 | Status of SWAYAM<br>facilities functioning                  | University is recognized as an<br>ACTIVE Local Chapter.<br>EDUSAT hall is used.   | Α |  |
| 67 | Whether SWAYAM<br>schedule is circulated to<br>the students | It is circulated by<br>Dr. R. S. Pawade and<br>Dr. S. L. Nalbalwar  | Α |  |
| 68 | Maintenance of<br>SWAYAM Viewers'                           | Partially maintained at University<br>Level by concerned coordinator  |   |  |

\*: Prepared for current academic year

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

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

\*: Prepared for current academic year

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

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| 89   | Cleanliness  | Maintained at University Level by<br>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<br>and faculties.                  | A | Available   |
| IX-0 | GOVERNANCE AND I   | LEADERSHIP  |   |   |
| 92   | Management<br>Committee Register   | Records of various meetings are<br>maintained by Department office. | A | Records of various meetings are maintained by<br>HOD office.  |
| 93   | Functioning of<br>Committees in<br>Administration<br>(Minutes of meetings) | Minutes of BoS and Advisory<br>Committee is maintained.             | Α | Various committees are available at<br>department level with participation of faculty<br>parents and teacher. |
| 94   | Awards/Achievements  | Dr. D. B. Waghmare has received                                     |   |   |

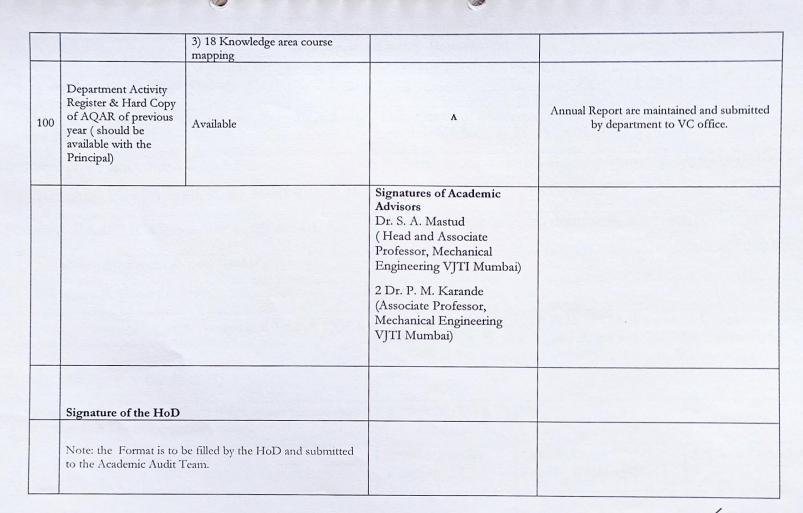
\*: Prepared for current academic year

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

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|      | Dr. Babasaheb Ambedkar Technological University  |  |  |                    |  |  |  |  |  |
|------|--|--|--|--------------------|--|--|--|--|--|
|      | Dr. Babasaheb Ambe   | dkar Technological U   | University   |                    |  |  |  |  |  |
|      | Academic A<br>Format for submission  | udit of Department   |  |                    |  |  |  |  |  |
| Nan  | Format for submission of<br>ne of the University Department:- Mechanical Engine                              | Academic Advisors  |  |                    |  |  |  |  |  |
| I-De | partment Profile   | eering   | Period of Audit  | : 2017 - 2018      |  |  |  |  |  |
| 1    | Name of the University Department, Website, email and Ph. No.  | Department of Mech<br>msadaiah@dbatu.ac.                     | anical Engineering, www.<br>in, 9423092195                                       | dbatu.ac.in,       |  |  |  |  |  |
| 2    | Name of the HoD, email & Mob.No  | Dr. Mudigonda Sad  | aiah, msadaiah@dbatu.ac.i  | n, 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 accreditated   |  |                    |  |  |  |  |  |
| 8    | NAAC Grade with Cycle, Accredited Year & CGPA (Status of preparation if not Accredited)                      | Date- EC(SC)_05_A  | 2015, 2.35 NAAC Executi<br>&A _083 dated 3-3-2015-<br>gical University. Lonere-N | Dr. Babasaheb      |  |  |  |  |  |
| 9    | UGC Recognition (2F & 12 B)  | Ambedkar Technological University, Lonere-Maharashtra<br>Yes |  |                    |  |  |  |  |  |
| 10   | Department Working Hours( if shift system mention details<br>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<br>Working: 12                               | Contract<br>FacultyWorking:06  | Adjunct Faculty:01 |  |  |  |  |  |

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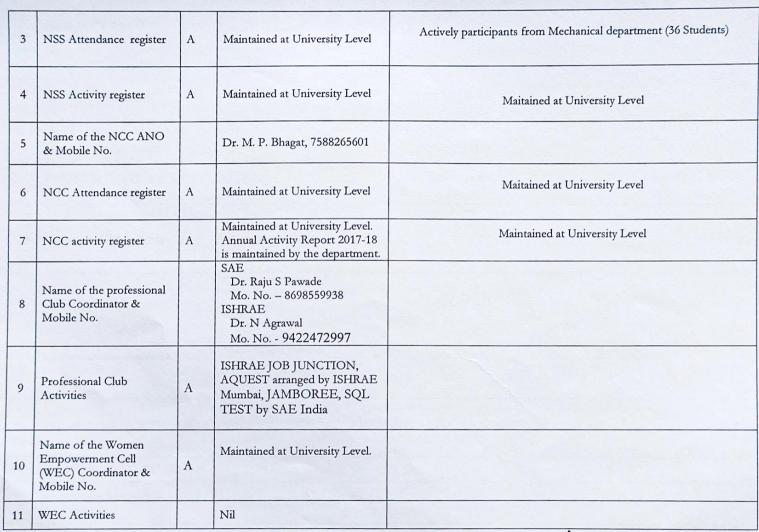
|   | Item   |       | on of Academic Advisor along with grade<br>B( Satisfactory)/C (poor) after Observation   | Recommendation/Suggestions by Academic Advisor |
|---|--|-------|--|--|
|   |  | Grade | Actual Status  |  |
| 1 | Implementation of<br>Annual Departmental<br>Plan                       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

|      |   |        | record is also available on the<br>University web-portal.   |   |
|------|---|--------|---|---|
| 8    | Teaching of Humanities<br>& Foundation Courses                | A      | Implemented as per guidelines<br>by UGC/AICTE at First Year<br>Engineering  | Incorporated as per UGC/AICTE guidelines            |
| 9    | Teaching of<br>Environmental Science<br>and Ethics            | A      | Implemented as per guidelines<br>by UGC/AICTE at First Year<br>Engineering  | Incorporated as per UGC/AICTE guidelines            |
| 10   | No. of New UG & PG<br>Courses introduced this<br>year:        | С      | Nil   |   |
| 11   | Maintenance of Student<br>Attendance Registers                | Α      | Maintained. For each semester<br>e-attendance record is available.  | Well Maintained                                     |
| 12   | Feedback forms on<br>Curriculum from<br>students              | в      | Record is available   | Need to incorporate students feedback in curriculum |
| III- | TEACHING, LEARNIN   | IG & E | VALUATION   |   |
| 1    | Teaching Diaries &<br>Teaching Plans in<br>Prescribed Formats | A      | Teaching Plan and Course files<br>are maintained by individual<br>faculty members.  | Available   |
| 2    | Co-Curricular Activities<br>( Department level)               | A      | Fraternity of Information<br>Technology (Students<br>Association) activities and<br>Cynosure tech fest. Participation<br>record is available. | Cynosure, SAE, ISHRAE, etc.                         |
| 3    | Academic Competitions<br>(University Level &<br>Above)        | в      | Fraternity of Information<br>Technology (Students<br>Association) activities and<br>Cynosure tech fest. Participation                         | Cynosure, SAE, ISHRAE, etc.                         |

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|       |  |          | record is available.  |  |
|-------|--|----------|---|--|
| 4     | Conduct of Internal<br>Examinations                        | A        | Continuous assessment is carried<br>out by the individual faculty<br>members. Mid test is conducted<br>by the examination department.<br>Record of Continuous<br>assessment is available. | Routinely done   |
| 5     | Subject wise result<br>analysis                            | A        | Record is available.  | Routinely done   |
| 6     | Teacher wise result<br>analysis                            | A        | Record is available.  | Routinely done   |
| 7     | Remedial Classes   | С        | Nil   | Summer refresh courses and make up classes can be conducted. |
| 8     | Record of Evaluation of<br>Teachers by Students            | A        | Feedback on Teachers by the students is taken and analysis is carried out.  | Well Implemented   |
| IV-   | RESEARCH AND CON   | SULTAI   | NCY   |  |
| 1     | Is the Department a<br>Recognized Research<br>Centre       | А        | Yes, Department is a<br>Recognized Research Centre<br>from academic Year 2015.  |  |
| 2     | No. of Research Guides<br>in the Department                | A        | 10  | 2 professors and 8 Associate professors                      |
| 3     | No. of Research<br>Scholars working for<br>Masters & Ph. D | А        | Presently 6 research scholars<br>perusing their Ph.D. in the<br>department. 43 M Tech.  |  |
| 4     | Major/Minor/Other<br>Research Projects                     | А        | PG Projects – 12<br>Major UG Projects – 8   |  |
| *: Pr | repared for current acade                                  | mic year | Da.   | foi anno 14  |

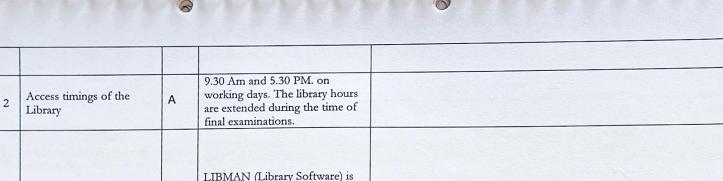
|       |   |          | Industry Projects - 6                                   |                      |
|-------|---|----------|---|----------------------|
| 5     | Research Papers<br>Published in previous<br>academic year<br>(International/ National         | A        | 05 International Conference<br>19 International Journal | Conferences: 24      |
| 6     | Papers Presented in<br>previous academic<br>year(International/<br>National/ State)           | A        | 05  |                      |
| 7     | Books Published in<br>previous Academic year<br>(Single Author/ Co<br>Author)                 | С        | *Activity not planned                                   | Need to be initiated |
| 8     | Seminars/Workshops/<br>Training Programme<br>Conducted<br>(International/<br>National/ State) | С        | *Activity not planned                                   |                      |
| 9     | Record of Consultancy<br>in previous academic<br>year   | В        | Industry Projects - 6                                   | Need to be enhanced  |
| 10    | Record of MoUs in academic year   | A        | 6   | Need to be enhanced  |
| VI-I  | EXTENSION ACTIVIT   | IES      |   |                      |
| 1     | Record of<br>Subject/Department<br>Related Extension<br>Activities                            | В        | Record of activities is<br>maintained by the department | NSS/Training /etc.   |
| 2     | Name of the NSS PO &<br>Mobile No.  |          | Dr. H. N. Warahtkar,<br>9403316374                      |                      |
| *: Pr | repared for current acade   | mic year | W.  | Jon news lf          |



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| 12     | Name of the Eco-Club<br>Coordinator & Mobile<br>No.       |        | Dr. M. Sadaiah  |                      |
|--------|---|--------|---|----------------------|
| 13     | Eco- Club Activities                                      | Λ      | Product driven R & D                                  | Product driven R & D |
| 14     | Name of the Consumer<br>Club Coordinator &<br>Mobile No.  |        | *Activity not planned                                 |                      |
| 15     | Consumer Club Activities                                  |        | *Activity not planned                                 |                      |
| 16     | Innovation Activity club                                  |        | *Activity not planned                                 |                      |
| 17     | Technology Development<br>and Transfer Cell<br>Activities |        | *Activity not planned                                 |                      |
| 18     | Any other Club  | A      | Mechanical Engineering<br>Students Association (MESA) |                      |
| IV-L   | EARNING RESOURCES   | 5      |   |                      |
| 1      | Name of the Librarian &<br>Mob. No.                       |        | S.P.Vaidya,94233382280                                |                      |
| *: Pro | epared for current academi                                | c year | Va.   | for anoun H          |

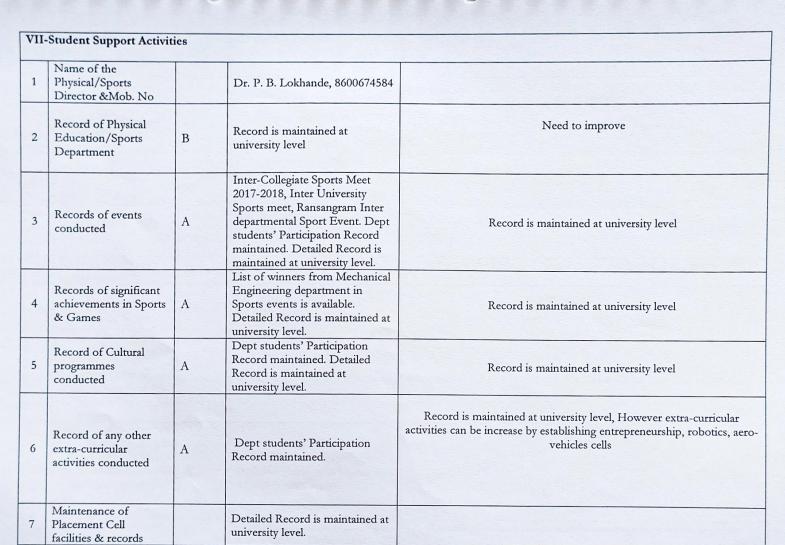


| 3 | Circulation of Books<br>among Students                       | A | LIBMAN (Library Software) is<br>used for circulation transaction.<br>Library also runs book bank<br>scheme sponsored by the Govt.<br>of Maharashtra.<br>http://dbatulibrary/opac or<br>http://172.16.5.238/opac)<br>online public access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

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

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

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

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| 5   | Cleanliness   | В      | Maintained at University Level<br>by Estate section  | Need to improve  |
|-----|---|--------|--|--|
| 6   | Health Care Facility  | A      | University has its own Primary<br>Health Centre  | First Aid Kit is available with department   |
| 7   | Canteen   | А      | Canteen is available to students and faculties.  | Available  |
| IX- | GOVERNANCE AND  | LEADER | SHIP   |  |
| 1   | Management<br>Committee Register  | A      | Records of various meetings are<br>maintained by Department<br>office.                           | Records of various meetings are maintained by HOD office.  |
| 2   | Functioning of<br>Committees in<br>Administration (<br>Minutes of meetings) | A      | Minutes of BoS and Advisory<br>Committee is maintained.  | Various comittees are available at department level with participation o faculty, parents and teacher. |
|     | Awards/Achievements   | A      | Dr. D. B. Waghmare has<br>received PhD from IIT<br>Kharagpur ,<br>Prof. G. S. Warkhade submitted |  |
| 3   |   |        | PhD Thesis under QIP at NIT<br>Warangal.   |  |

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### X - IT INITIATIVES

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| 1 | E-Class rooms (<br>Number & Usage)                  | A | 01 Smart Classroom (LH 206) is<br>functioning.   |  |
|---|---|---|--|--|
| 2 | Internet Centre                                     | А | Leased Line from BSNL of<br>1Gbps Accessed through<br>centralized facility (2 Servers ) at<br>University level | Computer center with own server is available at University. Connectivity<br>should be improved |
| 3 | Computer labs (No.<br>of labs & working<br>systems) | В | 01 Lab (35 Working PCs)  |  |

### **XI-Best Practices**

| 1 | Record of<br>best/innovative<br>practices by the<br>Department     | В | <ol> <li>Prepared curriculum with<br/>equal contribution of academia<br/>and industry experts Curriculum<br/>path chart with set of stream<br/>electives is attached (at<br/>department level)</li> <li>Item action Tracker</li> <li>18 Knowledge area course<br/>mapping</li> </ol> | Need to improve.  |
|---|--|---|--|---|
| 2 | Department Activity<br>Register & Hard Copy<br>of AQAR of previous | Α | Available  | AR are maintained and submitted by depertment to VC office. |

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

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# **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

| <u> </u>             | 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<br>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<br>met   | %<br>achieved |
|-----|--|------------------|---------------|
| 1   | LEARNING OBJECTIVES AND RESOURCES  |                  |               |
| 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   | t.det            | 90            |
| 1.3 | The faculty member documented specific benchmarks c. his course to account for learning objectives   | Met              | 85            |
| 2.  | CURRICULUM AND CO-CURRICULUM   |                  |               |
| 2.1 | The faculty member collaborated with other faculty members<br>for effective design, sequence of courses and delivery of<br>course for improvements and documented these efforts<br>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<br>Met | 60            |
| 3   | TEACHING AND LEARNING PROCESSES  |                  |               |
| 3.1 | The faculty member analyzed his/her own methods for<br>improving teaching and learning throughout the program and<br>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            |

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| 4.0      | STUDENT LEARNING ASSESSMENT                                     | T       |       |
|----------|---|---------|-------|
| 4.1      | The Faculty member has announced the method of                  | Met     | 100   |
|          | continuous assessment at the beginning of the course a          |         |       |
|          | followed it throughout.   |         |       |
| 4.2      | The faculty member developed techniques, other than then        | Met     | 90    |
|          | test, for the student learning assessments to improve the       |         |       |
|          | program.  |         |       |
| 4.3      | The faculty member has documented assessments of student        | Met     | 90    |
|          | learning  |         | 10    |
| 4.4      | The faculty member has developed measurable indicators of       | Met     | 80    |
|          | student learning success  | 1       |       |
| 4.5      | The faculty member has developed and documented a               | Met     | 75    |
|          | continuous improvement plan that incorporates multiple          |         | 15    |
|          | measures to assess student learning and program                 | 1 I     |       |
|          | effectiveness.  |         |       |
| 4.6      | The Student has put in his/her own efforts in the learning      | Met     | 90    |
|          | process from resources outside the Institute.                   | IVICE   | 30    |
| 4.7      | The students are challenged enough to use their knowledge       | Met     | 85    |
|          | creatively  | IVICE   | 05    |
| 5.0      | QUALITY ASSURANCE   |         |       |
| 5.1      | There is an existing process in the Institute to understand the | Met     | 90    |
|          | parameters of quality of teaching and learning processes        | IVICI   | 90    |
| 5.2      | There is an initiative to understand the parameters of quality  | Met     |       |
|          | of teaching and learning processes, if not existing.            | wiet    | 90    |
| 5.3      | There is commitment to making continuous quality                | 14-4    |       |
| 010      | improvements in the program a top priority                      | Met     | 80    |
| 5.4      | The performance of students in Internal Assessment and          |         | +     |
| 5.4      | University Examinations is comparable                           | Met     | 100   |
| 5.5      | University Examinations is comparable.                          |         |       |
| 5.5      | There is sufficient feedback obtained from stakeholders in      | Met     | 100   |
| 5.6      | development of academic processes in the College.               |         |       |
| 3.0      | There is sufficient evidence of attempts to understand the      | Met     | 100   |
| 8        | industries/ Society's need in delivery of appropriate course    |         |       |
|          | content to the students   |         |       |
| 6        | OVERALL ASSESSMENT  |         |       |
| 5.1      | The Academic Audit process was faculty driven.                  | Met     | 100   |
| 5.2      | The Academic Audit process (self-study and visit) included      | 16.4    |       |
|          | descriptions of the program's quality processes including all   | Met     | 85    |
|          | five focal areas.   |         |       |
| 5.3      |   |         |       |
|          | The Audit resulted in a candid description of weaknesses in     | Met     | 85    |
| 5.4      | program processes and suggestions for improvements.             |         |       |
| ).4      | There is openness and thoroughness of the faculty members       | Met     | 100   |
|          | in completing the academic audit of this program.               |         |       |
| 5.5      | The Academic Audit process included involvement of and          | Met     | 90    |
|          | inputs from stakeholder groups identified by the program's      |         |       |
|          | faculty members   |         |       |
|          | FOLLOW-UP OF PREVIOUS AUDIT                                     |         |       |
| .1       | An action plan was developed as a result of the previous        | Not Met |       |
| <u> </u> | Marchilly anow  | Ŋ       |       |
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|          | TO////////////////////////////////////                          | Ŭ       | Oller |
|          |   | /       | r     |

|     | Academic Audit.   | 7  | T   |
|-----|---|--|-----|
| 7.2 | There is documented evidence that recommendations made<br>by the previous Academic Audit Team have been considered<br>and, when feasible and appropriate, implemented and tracked.            | Not Met                                      |     |
| 7.3 | There is documented evidence that the program has been<br>implemented and tracked the progress of and use of results<br>from improvement initiatives cited by the faculty its self-<br>study. | Not Met                                      |     |
| 8   | SUPPORT   | <u>                                     </u> |     |
| 8.1 | The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources.                                    | Partially<br>Met                             | 80  |
| 8.2 | The program's operating budget is consistent with the needs of the program.   | Met  | 80  |
| 3.3 | The program has a history of enrolment rates sufficient to sustain high quality and cost-effectiveness.   | Met  | 100 |
| 3.4 | The program has a history of graduation rate sufficient to sustain the quality of the program.  | Partially<br>Met                             | 75  |
| 3.5 | 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

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1. Dr. S. A. Mastud

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Head and Associate Professor, Mechanical Engineering Department VJTI Mumbai

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2. Br. P. M. Karande

Associate Professor, Mechanical Engineering VJTI Mumbai

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

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

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

Signatures of Academic Advisors Wiscan 1. Dr. S. A. Mastud (

Head and Associate Professor, Mechanical Engineering VJTI Mumba

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

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|-----|---|--|--|--|
|     | Dy. Babasaheb Ambedkar Technological University   | dkar Technological   | University   |  |
|     | Academic A  | Academic Audit of Department   |  |  |
|     | Format-I  | Format-I (Department Data)   |  |  |
| lan | Name of the University Department:- Mechanical Engine   | erinoPeriod of Audi  | LEngineeringPeriod of Audit- July 2018 - June 2010   |  |
| -De | L-Department Profile  |  |  |  |
|     | Name of the University Department, Website, email and Ph.No.  | Department of Mechanical Engineer<br>msadaiah@dbatu.ac.in, 9423092195        | Department of Mechanical Engineering, www.dbatu.ac.in, msadaiah@dbatu.ac.in, 9423092195  | dbatu.ac.in,                           |
| 7   | Name of the HoD, email & Mob.No   | Dr. Mudigonda Sada   | Dr. Mudigonda Sadaiah, msadaiah@dbatu.ac.in, 9423092195  | n, 9423092195                          |
| ε   | Name of the Vice-Principal, if any, email & Mob. No.  | NA   |  |  |
| 4   | Name of the IQAC Coordinator, email & Mob. No.  | Dr. L. N. Singh, Insir   | Dr. L. N. Singh, Insingh@dbatu.ac.in ,8087369025   | 025                                    |
| S   | Year of Establishment & own land if any   | 1992, Yes  |  |  |
| 7   | NBA accreditation of courses  | Not accreditated   |  |  |
| 8   | NAAC Grade with Cycle, Accredited Year & CGPA (Status of preparation if not Accredited)                   | B Grade, 1st Cycle,2<br>Date- EC(SC)_05_A<br>BabasahebAmbedka<br>Maharashtra | B Grade, 1st Cycle,2015,2.35 NAAC Executive Committee No. & Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr.<br>BabasahebAmbedkar Technological University, Lonere-Maharashtra | e Committee No. &<br>Dr.<br>⁄, Lonere- |
| 6   | 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.   | P.M.   |  |
| 11  | No. of Posts Sanctioned: 19   | Regular Faculty<br>Working: 12   | Contract<br>FacultyWorking:03  | Adjunct Faculty:01                     |
|     |   |  |  | ~                                      |



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

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|--|--|---|--|--|---|---------|
| Need to be enhanced  | Need to be enhanced  | W'ell Implemented   | Incorporated as per UGC/AICTE guidelines                                   | Need to be enhanced                                    | Well Maintained   | All All |
| U  | <b>2</b>   | ĸ   | ×  | U  | V   | Anona f |
| Planned for next academic year   | It is Planned to conduct<br>certification courses in the current<br>academic year. Such as course<br>recommended by NASSCOM,<br>SWYAM, NSF | 80% of syllabus is covered by<br>instructional mode<br>20% of syllabus is covered in self<br>study mode | Implemented as per guidelines by<br>UGC/AICTE at First Year<br>Engineering | ĨĨ   | Maintained. for each semester e-<br>attendance record is available. | A Mille |
| Add-on Courses<br>(Department-wise)<br>completed during<br>previous year | Add-on Courses<br>(Department-wise)<br>during current<br>academic year   | Coverage of Syllabus<br>(Average Percentage)  | Teaching of<br>Humanities &<br>Foundation Courses                          | No. of New UG & PG<br>Courses introduced<br>this year: | Maintenance of<br>Student Attendance<br>Registers                   |         |
| 17   | 18   | 19  | 20   | 21   | 22  |         |

|    |  | III-TEACHING, I   | III-TEACHING, LEARNING & EVALUATION |  |    |
|----|--|---|-------------------------------------|--|----|
|    | Teaching Diaries &<br>Teaching Plans in<br>Prescribed Formats            | Teaching Plan and Course files are<br>maintained by individual faculty<br>members.  | V                                   | Available                                |    |
|    | Co-Curricular<br>Activities (<br>Department level)                       | Fraternity of Information<br>Technology (Students Association)<br>activities and Cynosure tech fest.<br>Participation record is available.  | Y                                   | Cynosure, SAE, ISHRAE, etc.              |    |
|    | Academic<br>Competitions (<br>University Level &<br>Above)               | Fraternity of Information<br>Technology (Students Association)<br>activities and Cynosure tech fest.<br>Participation record is available.  | v                                   | Cynosure, SAE, ISHRAE, etc.              |    |
| 26 | Conduct of Internal<br>Examinations-Unit,<br>Half-Yearly and<br>Prefinal | Continuous assessment is carried<br>out by the individual faculty<br>members. Mid test is conducted by<br>the examination department.<br>Record of Continuous assessment<br>is available. | v                                   | Routinely done                           |    |
| l. | Subject wise result<br>analysis  | Record is available.  | <b>A</b>                            | Need to systematically improve           | r  |
| 28 | Teacher wise result<br>analysis  | Record is available.  | B                                   | Need to systematically improve           |    |
| 50 | Remedial Classes   | Planned for next academic year  | υ                                   | Summer refresh courses, GATE classes and |    |
|    |  | He all a  | Anound C                            | Manter M                                 | at |

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

Actively participants from Mechanical Maitained at University Level department (36 Students) Need to be improved Need to be improved Need to be enhanced Need to be enhanced NSS/Training /etc. £ C æ < < the first of Methodology Techniques and 1 (Alicon Castalloy Ltd, Pune) Maintained at University Level Maintained at University Level maintained by the department H. N. Warahtkar, 9403316374 welding technique, Research Record of few activities is Workshop on Advanced One book is published software etc.. ĪZ VI-EXTENSION ACTIVITIES previous academic year Seminars/Workshops/ Record of Consultancy Name of the NSS PO & Mobile No. NSS Activity register year (Single Author/ in previous academic Subject/Department Training Programme Record of MoUs in **Books Published in** previous Academic Related Extension National/ State ) NSS Attendance (International/ Co Author) Conducted Record of Activities register year 40 4 42 43 37 39 38 4

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

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|--|--------------------------------|---|-----------------------|------------------------------------|--|---|---|----------------|
|  |                                | MESA, X'ELERATE                                       |                       |                                    |  | Book bank, etc.   | Last Three years question papers are available<br>with department.  | A miles        |
|  | V                              | V   |                       |                                    | Z  | £   | Y   | Brilly Aarenny |
| Mrs. M. U. Sakate  | Maintained at University level | Mechanical Engineering Students<br>Association (MESA) | <u>IS</u>             | S.P.Vaidya,94233382280             | 9.30 Am and 5.30 PM. on<br>working days. The library hours<br>are extended during the time of<br>final examinations. | LIBMAN (Library Software) is<br>used for circulation transaction.<br>Library also runs book bank<br>scheme sponsored by the Govt.<br>of Maharashtra.<br>http://dbatulibrary/opac or<br>http://172.16.5.238/opac) online<br>public access catalogue is used. | Last 3 years question papers are<br>available with course files for each<br>course is prepared by every<br>faculty members. | AN AN          |
| Name of the Consumer<br>Club Coordinator &<br>Mobile No. | Consumer Club<br>Activities    | Any other Club  | IV-LEARNING RESOURCES | Name of the Librarian<br>& Mob. No | Access timings of the<br>Library   | Circulation of Books<br>among Students  | Availability of Previous<br>years Question papers   |                |
| Ĵ4   | 55                             | 56  | I-VI                  | 57                                 | 58   | 59  | 09  |                |

| 61 | Record of Visitors  | Maintained by University Library.<br>The library is having open access.   | ¥          | Maitained by Library and Department Library<br>is maintained by Lab Assistant. |              |
|----|---|---|------------|--|--------------|
| 62 | Status of Library<br>Automation                             | The library is partially<br>computerized with the help of<br>LIBMAN (Library Software).The<br>circulation transaction, Barcode<br>generation, No dues certificates,<br>Reminder etc. work is carried out<br>with the help of this software. | ×          | LIB MAN Software   |              |
| 63 | e-Lessons & e-<br>Resources/ e-Journals                     | Various Journals and Resources<br>are subscribed and available<br>online  | <b>B</b>   | Need to subscribe more journals.   |              |
| 64 | Usage of Internet by<br>students in the Library             | Library has separate computer<br>section around 20 computers are<br>available with internet<br>connectivity for students for<br>accessing online journals and e-<br>books.  | V          | Available  |              |
| 65 | Name of SWAYAM<br>Coordinator & Mob.<br>No                  | Dr.R.S.Pawade,8698559938  |            |  |              |
| 99 | Status of SWAYAM<br>facilities functioning                  | University is recognized as an<br>ACTIVE Local Chapter.<br>EDUSAT hall is used.   | V          | 16 students registered and successfully<br>completed online courses            |              |
| 67 | Whether SWAYAM<br>schedule is circulated to<br>the students | It is circulated by<br>Dr. R. S. Pawade and<br>Dr. S. L. Nalbalwar  | Y          |  |              |
| 68 | Maintenance of<br>SWAYAM Viewers'                           | Partially maintained at University<br>Level by concerned coordinator  |            |  | $\backslash$ |
| 9  |   | H.  | dilly show | Constraints W  |              |

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|---|---|--|--|
| Student Support Activiti  | ies   |  |  |
| Name of the<br>Physical/Sports<br>Director & Mob.No             | Dr. P. B. Lokhande, 8600674584  |  |  |
| Record of Physical<br>Education/Sports<br>Department            | Record is maintained at university<br>level   | ß  | Need to improve  |
| Records of events<br>conducted                                  | Inter-Collegiate Sports Meet 2018-<br>2019, Inter University Sports meet,<br>Ransangram Inter departmental<br>Sport Event. Dept students'<br>Participation Record maintained.<br>Detailed Record is maintained at<br>university level.  | ×  | Record is maintained at university level   |
| Records of significant<br>achievements in Sports<br>& Games     | List of winners from mechanical<br>department in Sports events is<br>available. Detailed Record is<br>maintained at university level.   | v  | Record is maintained at university level   |
| Record of Cultural<br>programmes<br>conducted                   | Dept students' Participation<br>Record maintained. Detailed<br>Record is maintained at university<br>level.   | £  | Record is maintained at university level   |
| Record of any other<br>extra-curricular<br>activities conducted | Dept students' Participation<br>Record maintained.  | Υ  | Record is maintained at university level,<br>However extra-curricular activities can be<br>increase by establishing entrepreneurship,  |
|   | - A   |  | A Sinter K   |
|   | Student Support Activit<br>Student Support Activit<br>Name of the<br>Physical/Sports<br>Director & Mob.No<br>Record of Physical<br>Education/Sports<br>Department<br>Records of events<br>conducted<br>Records of significant<br>achievements in Sports<br>& Games<br>Record of Cultural<br>programmes<br>conducted<br>Record of Tutual<br>Record of Significant<br>achievements in Sports<br>& Games<br>Record of Cultural<br>programmes<br>conducted<br>Record of Cultural<br>Record of Cultural<br>programmes<br>conducted<br>Record of Cultural | Sport Activities     It fet fet fet fet fet fet fet fet fet fe | Pr. P. B. Lokhande, 8600674584<br>Pr. P. B. Lokhande, 8600674584<br>ecord is maintained at university<br>ecord is maintained at university Sports meet,<br>ansangram Inter departmental<br>port Event. Dept students'<br>ansangram Inter departmental<br>port Event. Dept students'<br>ariticipation Record maintained at<br>miversity level.<br>Set of winners from mechanical<br>epartment in Sports events is<br>valiable. Detailed Record is<br>aintained at university level.<br>Dept students' Participation<br>tecord maintained at university<br>veel.<br>Dept students' Participation<br>tecord maintained at university<br>veel.<br>Dept students' Participation<br>tecord maintained at university<br>veel. |

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|    |  |   |         | robotics, aero-vehicles cells  |
|----|--|---|---------|--|
| 75 | Maintenance of<br>Placement Cell<br>facilities & records   | Detailed Record is maintained at<br>university level.                                   | æ       | Need to improve  |
| 76 | Record of Student<br>trained and placed  | No students placed in this 2018-19<br>in campus interview - 10                          | B       | Need to improve  |
| 77 | Name of Career<br>Guidance Cell<br>Coordinator &<br>Mob.No   | Dr. N. Agrawal 9422472997   | 1       | T  |
| 78 | Record of activities<br>Career Guidance  | Few workshops on start-ups<br>conducted. Record is available.                           | ×       | Soft skills development programs are<br>conducted at university level. |
| 62 | Departmental Review<br>Committee (DRC)<br>Coordinator & Mob.<br>No.  | Dr. V.G. Sargade, 9730341788  |         |  |
| 80 | Implementation of<br>DRC Action Plan   | *Activity not planned   | υ       |  |
| 81 | IQAC activities &<br>maintenance of<br>records , (Action<br>Plan/Minutes of<br>Meeting/Proof of<br>submission of AQAR<br>to NAAC/Activity<br>register etc) | IQAC Minutes of Meeting are<br>available. Proof of submission of<br>AQAR is maintained. | V       |  |
|    |  | alling  | B Malum | why present  |

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|---|--|--|----------------------|--|---------------------------------------|--|---|--------------------------|
| Records of various Achievements are<br>maintained by HoLD office. | Suggestion box can be implemented at department  | Record is maintained at university level |                      | Water coolers and filters are available in the campus. | Need to improve                       | available at every floor                             | University workers are appointed for the purpose.   | Mund<br>Annual<br>Annual |
| 2   | £  |  |                      | ×  | 20                                    | ~  | ×   | illy Areen               |
| Alumni Association registration is<br>in progress                 | Record of Grievance Redressal<br>Cell and Women's Grievance<br>Redressal Committee is maintained<br>at University level. | Available                                |                      | Sufficient water coolers and filters<br>are available  | Maintained                            | Available at University level on the<br>ground floor | Maintained at University Level by<br>Estate section | SIMP                     |
| Record of Support by<br>Alumni Association                        | Record of Grievance<br>Redressal Cell / Anti<br>Ragging cell   | Record of Anti<br>Ragging cell           | VIII-Basic Amenities | Maintenance of<br>drinking water                       | Maintenance of<br>sanitation          | Rest room for women<br>students                      | Greenery  |                          |
| 82  | 83   | 84                                       | VIII                 | 85   | 86                                    | 87   | 88  |                          |

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| <br>1   |  | 1  |                              | <b></b>   | ·  | -   | $\rightarrow$   |
|---|--|--|------------------------------|---|--|---|-----------------|
| University workers are appointed for the purpose    | First Aid Kit is available with department           | Available  |                              | Records of various meetings are maintained by<br>HOD office.        | Various committees are available at<br>department level with participation of faculty,<br>parents and teacher. | Need to be improved   | Holeway Countil |
| <   | ≺  | <  |                              | V   | ×  |   | A SIMP ON       |
| Maintained at University Level by<br>Estate section | University has its own primary<br>health care centre | Canteen is available to students<br>and faculties. | EADERSHIP                    | Records of various meetings are<br>maintained by Department office. | Minutes of BoS and Advisory<br>Committee is maintained.  | For the Online course of NPTEL<br>Mr. Sameer Ghanavat secured a |                 |
| Cleanliness   | Health Care Facility                                 | Canteen  | IX-GOVERNANCE AND LEADERSHIP | Management<br>Committee Register                                    | Functioning of<br>Committees in<br>Administration<br>(Minutes of meetings)                                     | Awards/Achievements   |                 |
| 89  | 06   | 16   | )-XI                         | 92  | 93   | 94  |                 |

Computer center with own server is available Projects etc. are conducted by department. Workshop on recent trends, Community at University. Connectivity should be Need to be improved improved Lunguk. < HI FILL electives is attached (at department spot among top 5% at the national level of the online course. Dr. G. S. Warkhade awarded PhD 1)Prepared curriculum with equal 01 Smart Classroom (LH 206) is under QIP by NIT Warangal. (2 Servers ) at University level contribution of academia and 2) 18 Knowledge area course industry experts Curriculum pathchart with set of stream Leased Line from BSNL of 01 Labs (35 Working PCs) 1Gbps Accessed through centralized facility functioning. mapping level) Computer labs (No. Faculty development H-Class rooms ( \_ Number & Usage) of labs & working X - IT INITIATIVES initiatives if any best/innovative practices by the Internet Centre XI-Best Practices Department Record of systems) 97 95 96 66 98

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|  |                                    | N 10 |                  |  | · · · · ·                |                   |   | <br>                 |  |                             |  |
|--|------------------------------------|------|------------------|--|--------------------------|-------------------|---|----------------------|--|-----------------------------|--|
| Annual Report are maintained and submitted<br>by department to VC office.  |                                    | 1.   |                  |  |                          |                   |   |                      |  |                             |  |
| <  | Signatures of Academic<br>Advisors | mont | Dr. S. A. Mastud | (Head and Associate<br>Professor, Mechanical | Engineering VIII Mumbai) | 2 Dr. P. M. Aaran | (Associate Professor,<br>Mechanical/Engineering<br>VJTI Mumbai) | SIMPE BY             | 3  |                             |  |
| Available  |                                    |      |                  |  |                          |                   |   | Signature of the HoD | Note: the Format is to be filled by the test of the second | um.                         |  |
| Department Activity<br>Register & Hard Copy<br>of AQAR of previous<br>year ( should be<br>available with the<br>Principal) |                                    |      |                  |  |                          |                   |   | Signatı              | Vote: the Format is to be                                  | to the Academic Audit Team. |  |
| 100  |                                    |      |                  |  | 20                       |                   |   | <br>                 |  | <u> </u>                    |  |
| 2000 - Co - Co - Co  | 500 BBG                            |      |                  |  | _                        |                   | 10 N  |                      |  |                             |  |

| <b>—</b>      | Dr. BabasahebAmb  | edkar Technologi  |   |                     |
|---------------|---|---|---|---------------------|
|               | Academic  | All fit of Donest                                       |   |                     |
| Na            | Format for submission of the University Department:-Mechanical English                                    | of Academic Advise                                      | DES Concert (A A D)   |                     |
| I-D           | me of the University Department:-Mechanical Engin   | eeringPeriod of A                                       | udie 2018 2010  |                     |
|               | Name of the University Department, Website, email   |   |   |                     |
|               |   | Department of M<br>msadaiah@dbatu                       | lechanical Engineering, wi<br>.ac.in, 9422660196                                | ww.dbatu.ac.in,     |
| $\frac{2}{3}$ | Name of the HoD, email & Mob.No   | Dr. M. Sadajah  | nsadaiah@dbatu.ac.in, 94  | 22660196            |
|               | Name of the Vice-Principal, if any, email & Mob. No.  | NA  |   |                     |
| 4             | Name of the IQAC Coordinator, email & Mob. No.  | Dr. L. N. Singh, Ir.                                    | ns. 1gh@dbatu.ac.in ,8087   | 369025              |
| 5             | Year of Establishment & own land if any   | 1992, Yes   |   |                     |
| 7             | NBA accreditation of courses  | Not accreditated  | a Andra   |                     |
| 8             | NAAC Grade with Cycle, Accredited Year & CGPA<br>(Status of preparation if not Accredited)                | B Grade, 1st Cycle<br>Date- EC(SC)_05<br>BabasahebAmbed | e,2015,2.35 NAAC Execu<br>A&A _083 dated 3-3-20<br>kar Technological University |                     |
| 9             | UGC Recognition (2F & 12 B)   | Maharashtra<br>Yes                                      |   |                     |
| 10            | Department Working Hours( if shift system mention details of both shifts & give reasons for shift system) | 8.00 A.M. TO 6.03                                       | Э.Р.М.  |                     |
|               | No. of Posts Sanctioned: 10   | Regular Faculty<br>Working: 12                          | Contract<br>Faculty Working:06  | Visiting Faculty:01 |
|               |   | <br>1   |   |                     |

\*: Prepared for current academic year

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| 1-0 | epartment Profile  | 1     |   |   |
|-----|--|-------|---|---|
|     | ltem   |       | on of Academic Advisor along with grade<br>B( Satisfactory)/C (poor) after Observation  | Recommendation/Suggestions by Academic Advisors |
|     |  | Grade | Actual Status   |   |
| 1   | Implementation of<br>Annual Departmental<br>Plan                         | A     | Annual department plan was<br>prepared well before start of<br>academic Year  |   |
| 2   | Departmental Annual<br>Curricular Plans                                  | А     | Curricular plan was prepared.   |   |
| 3   | Department Activity<br>Register for the<br>Academic Year                 | JA:   | Department has maintained<br>Registers for Departmental<br>meetings and BoS meetings. All<br>Minutes of meetings have been<br>recorded. |   |
| 4   | Departmental Activity<br>Registers                                       | A     | Department has maintained<br>Registers for Departmental<br>meetings and BoS meetings. All<br>Minutes of meetings have been<br>recorded. |   |
| Ĵ   | Add-on Courses<br>(Department-wise)<br>completed during<br>previous year | С     | Added in syllabi  |   |
| 6   | Add-on Courses<br>(Department-wise)<br>during current academic<br>year   | в     | Implemented Product Design<br>Engineering, NAASCOM  |   |

| 7   | Coverage of Syllabus<br>(Average Percentage)                  | A      | 80% of syllabus is covered by<br>instructional mode<br>20% of syllabus is covered in<br>self study mode                                       |  |
|-----|---|--------|---|--|
| 8   | Teaching of Humanities<br>& Foundation Courses                | Δ      | Implemented as per guidelines<br>by UGC/AICTE at First Year<br>Engineering  |  |
| 9   | Teaching of<br>Environmental Science<br>and Ethics            | А      | Implemented as per guidelines<br>by UGC/AICTE at First Year<br>Engineering  |  |
| 10  | No. of New UG & PG<br>Courses introduced this<br>year:        | С      | Nil   |  |
| 11  | Maintenance of Student<br>Attendance Registers                | A      | Maintained. For each semester<br>e-attendance record is available.  |  |
| 12  | Feedback forms on<br>Curriculum from<br>students              | ۸      | Feedback forms are filled by students at the end of each semester   |  |
| Ш-′ | TEACHING, LEARNIN   | G & EV | ALUATION  |  |
| 1   | Teaching Diaries &<br>Teaching Plans in<br>Prescribed Formats | Α      | Teaching Plan and Course files<br>are maintained by individual<br>faculty members.  |  |
| 2   | Co-Curricular Activities<br>(Department level)                | А      | Fraternity of Information<br>Technology (Students<br>Association) activities and<br>Cynosure tech fest. Participation<br>record is available. |  |

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

\*: Prepared for current academic year

| IV- | RESEARCH AND CO   | NSULTAN | NCY   |  |
|-----|---|---------|---|--|
| 1   | Is the Department a<br>Recognized Research<br>Centre  | Α       | Yes, Department is a<br>Recognized Research Centre<br>from academic Year 2015.                    |  |
| 2   | No. of Research<br>Guides in the<br>Department  | λ       | 09  |  |
| 3   | No. of Research<br>Scholars working for<br>Masters & Ph. D                                    | А       | Ph. D - 27<br>Masters - 38  |  |
| 4   | Major/Minor/Other<br>Research Projects  | С       | . Nul   |  |
| 5   | Research Papers<br>Published in previous<br>academic year<br>(International/<br>National)     | ٨       | International Conference - 4<br>International Journal - 8<br>National Conferences - 6             |  |
| 6   | Papers Presented in<br>previous academic<br>year(International/<br>National/ State )          | Δ       | 10  |  |
| 7   | Books Published in<br>previous Academic<br>year (Single Author/<br>Co Author)                 | в       | One book is published   |  |
| 8   | Seminars/Workshops/<br>Training Programme<br>Conducted<br>(International/<br>National/ State) | λ       | Workshop on Advanced<br>welding technique, Research<br>Methodology Techniques and<br>software etc |  |

| 6  | NCC Attendance register  |   | Maintained at University Level  |  |
|----|--|---|---|--|
| 7  | NCC activity register  | A | Maintained at University Level.<br>Annual Activity Report 2018-19<br>is maintained by the department. |  |
| 8  | Name of the professional<br>Club Coordinator &<br>Mobile No.               | Λ | SAE<br>Dr. R. S. Pawade<br>Mo. No. – 8698559938<br>ISHRAE<br>Dr. N Agrawal<br>Mo. No 9422472997       |  |
| 9  | Professional Club<br>Activities  | A | ISHRAH Quiz, Slambook<br>Competition, Mock Interview,<br>Tech-click, etc.                             |  |
| 10 | Name of the Women<br>Empowerment Cell<br>(WEC) Coordinator &<br>Mobile No. |   | Prof. Laddha  |  |
| 1  | WEC Activities   |   | Maintained at University Level  |  |
| 2  | Name of the Eco-Club<br>Coordinator & Mobile<br>No.                        |   | Dr. M. Sadaiah  |  |

| 13   | Eco- Club Activities                                      | Δ | Technical Project Under<br>Community Service(19<br>Projects) |                   |  |  |
|------|---|---|--|-------------------|--|--|
| 14   | Name of the Consumer<br>Club Coordinator &<br>Mobile No.  |   | Mrs. M. U. Sakate  |                   |  |  |
| 15   | Consumer Club Activities                                  | с | *Activity not planned  |                   |  |  |
| 16   | Innovation Activity club                                  | с | *Activity not planned  |                   |  |  |
| 17   | Technology Development<br>and Transfer Cell<br>Activities |   | *Activity not planned  |                   |  |  |
| 18   | Any other Club  | A | Mechanical Engineering<br>Students Association               | -Cas 3 - L - E 13 |  |  |
| IV-1 | IV-LEARNING RESOURCES                                     |   |  |                   |  |  |
| 1    | Name of the Librarian<br>&Mob.No                          |   | S.P.Vaidya,94233382280                                       |                   |  |  |

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

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. etc. work is carried out with the help of this software. Various Journals and Resources e-Lessons & e-Resources/ 8 ١. are subscribed and available c-Journals online Library has separate computer section around 20 computers are Usage of Internet by available with internet 9 A students in the Library connectivity for students for accessing online journals and ebooks. Name of SWAYAM 10 A Dr.R.S.Pawade,8698559938 Coordinator & Mob. No University is recognized as an Status of SWAYAM 11 A ACTIVE Local Chapter, EduSat facilities functioning hall is used. Whether SWAYAM It is circulated by Dr.R. S. 12 schedule is circulated to ١. Pawade and Dr. S.L. Nalbalwar the students Maintenance of 16 students registered and 13 SWAYAM Viewers' A successfully completed online Register courses \*: Prepared for current academic year

| 9   | Record of Consultancy<br>in previous academic<br>year              | с   | *Activity not planned                                    |  |
|-----|--|-----|--|--|
| 10  | Record of MoUs in academic year                                    | в   | 1 (Alicon Castalloy Ltd, Pune)                           |  |
| V1. | EXTENSION ACTIVIT  | IES |  |  |
| 1   | Record of<br>Subject/Department<br>Related Extension<br>Activities | В   | Record of few activities is maintained by the department |  |
| 2   | Name of the NSS PO &<br>Mobile No.                                 | Λ   | Dr. H. N. Warahtkar,<br>9403316374                       |  |
| 3   | NSS Attendance register  | Δ   | Maintained at University Level                           |  |
| 4   | NSS Activity register  | Α   | Maintained at University Level                           |  |
| 5   | Name of the NGC ANO<br>& Mobile No.                                | Δ   | Dr. M. P. Bhagat, 7588265601                             |  |

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| VII-Student Support Activities |   |     |   |  |  |
|--------------------------------|---|-----|---|--|--|
| 1                              | Name of the<br>Physical/Sports<br>Director &Mob.No              |     | Dr. P. B. Lokhande, 860067458-  |  |  |
| 2                              | Record of Physical<br>Education/Sports<br>Department            | A . | Record is maintained at<br>university level   |  |  |
| 3                              | Records of events<br>conducted                                  | Λ   | Inter-Collegiate Sports Meet<br>2018-2019, Inter University<br>Sports meet, Ransangram Inter<br>departmental Sport Event. Dept<br>students' Participation Record<br>maintained. Detailed Record is<br>maintained at university level. |  |  |
| 4                              | Records of significant<br>achievements in Sports<br>& Ciames    | A   | List of winners from Mechanical<br>Engineering department in<br>Sports events is available.<br>Detailed Record is maintained at<br>university level.  |  |  |
| 5                              | Record of Cultural<br>programmes<br>conducted                   | Α   | Dept students' Participation<br>Record maintained. Detailed<br>Record is maintained at<br>university level.   |  |  |
| 6                              | Record of any other<br>extra-curricular<br>activities conducted | λ   | Dept students' Participation<br>Record maintained.  |  |  |
| 7                              | Maintenance of<br>Placement Cell<br>facilities & records        | λ   | Detailed Record is maintained at<br>university level.   |  |  |

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|----|---|---|---|--|
| 8  | Record of Student<br>tramed and placed  | Δ | No students placed in this 2018-<br>19 m campus interview + 10.                         |  |
| 9  | Name of Career<br>Guidance Cell<br>Coordinator &Mob.No  | ٨ | Dr. N. Agrawal 9422472997   |  |
| 10 | Record of activities<br>Career Guidance   | Λ | Few workshops on start-ups<br>conducted. Record is available.                           |  |
| 11 | Departmental Review<br>Committee (DRC)<br>Coordinator & Mob.<br>No.   | Α | Dr. V.G. Sargade,<br>9730341788   |  |
| 12 | Implementation of<br>DRC Action Plan  | C | *Activity not planned   |  |
| 13 | IQAC activities &<br>maintenance of records<br>, (Action Plan/Minutes<br>of Meeting/Proof of<br>submission of AQAR<br>to NAAC/Activity<br>register etc) | А | IQAC Minutes of Meeting are<br>available. Proof of submission of<br>AQAR is maintained. |  |
| 14 | Record of Support by<br>Alumni Association  | С | Alumni Association registration is in progress.   |  |
| 15 | Record of Grievance<br>Redressal Cell / Anti  | в | Record of Grievance Redressal<br>Cell and Women's Grievance                             |  |

\*: Prepared for current academic year

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|------|----------------------------------|---|--|--|
|      | Ragging cell                     |   | Redressal Committee is                               |  |
|      |                                  |   | maintained at University level.                      |  |
| 16   | Record of Anti<br>Ragging cell   | ð | Available at University Level                        |  |
| VIII | I-Basic Amenitics                |   |  |  |
| 1    | Maintenance of<br>drinking water | л | Sufficient water coolers and filters are available   |  |
| 2    | Maintenance of<br>sanitation     | в | Maintained   |  |
| 3    | Rest room for women<br>students  | А | Available at University level on the ground floor    |  |
| 4    | Greenery                         | Α | Maintained at University Level<br>by Estate section  |  |
| 5    | Cleanliness                      | Λ | Maintained at University Level<br>by Estate section  |  |
| 6    | Health Care Facility             | Ā | University has its own Primary<br>Health Care Centre |  |

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\*: Prepared for current academic year

|     |   |        | 10 M  |  |  |  |
|-----|---|--------|---|--|--|--|
|     | <u> </u>  |        |   |  |  |  |
| 7   | Canteen   | Λ      | Canteen is available to students<br>and faculties.  |  |  |  |
| IX- | GOVERNANCE AND  | LEADEI | RSHIP   |  |  |  |
| t   | Management<br>Committee Register  | Λ      | Records of various meetings are<br>maintained by Department<br>office.  |  |  |  |
| 2   | Functioning of<br>Committees in<br>Administration (<br>Minutes of meetings) | Λ      | Minutes of BoS and Advisory<br>Committee is maintained.   |  |  |  |
| 3   | Awards/Achievements   | в      | For the Online course of<br>NPTEL<br>Mr. Sameer Ghanavat secured a<br>spot among top 5% at the<br>national level of the online<br>course. |  |  |  |
| 4   | Faculty development<br>initiatives if any                                   | А      | Dr. G. S. Warkhade awarded<br>PhD under QIP by NIT<br>Warangal.   |  |  |  |
|     |   |        |   |  |  |  |
| ī   | E-Class rooms (<br>Number & Usage)  | Α      | 01 Smart Classroom (1.11 206) is<br>functioning.  |  |  |  |

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|-----|--|----------|---|--|
| 2   | Internet Centre  | А        | Leased Line from BSNL of<br>IGbps Accessed through<br>centralized facility (2 Servers ) at<br>University level  |  |
| 3   | Computer labs (No.<br>of labs & working<br>systems)                | В        | 01 Labs (Working PCs)   |  |
| XI- | Best Practices   | <b>_</b> |   |  |
| 1   | Record of<br>best/innovative<br>practices by the<br>Department     | В        | <ul> <li>1)Prepared curriculum with<br/>equal contribution of academia<br/>and industry experts Curriculum<br/>pathchart with set of stream<br/>electives is attached (at<br/>department level)</li> <li>2) 18 Knowledge area course<br/>mapping</li> </ul> |  |
| 2   | Department Activity<br>Register & Hard Copy<br>of AQAR of previous | ٨        | Available   |  |

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

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|         |  | Available Annual Report are maintained and submitted by department to VC office. | Signatures of Academic<br>Advisors<br>Advisors<br>Advisors<br>I. Dr. S. A. Mastud<br>(Head and Associate<br>Professor, Mechanical<br>Engineering VJT (Mumbai)<br>Engineering VJT (Mumbai)<br>2. Dr. P. M. Karande<br>(Associate Professor,<br>Mechanical Engineering VJT1<br>Mumbai) | Note: the Format is to be filled by the HoD and submitted to the<br>Academic Audit Team. |
|---------|--|--|--|--|
| mapping | Available  | Availa   | Signatures of Academic<br>Advisors<br>Advisors<br>1. Dr. S. A. Mastud<br>(Head and Associate<br>Professor, Mechanical<br>Engineering VJT(Mum<br>Engineering VJT(Mum<br>(Associate Professor,<br>Mumbai)<br>Mumbai)   | An/  |
|         | A  | V  |  | foD  |
|         | Department Activity<br>Register & Hard Copy<br>of AQAR of previous<br>year<br>( should be available<br>with the Principal) | Over All Impression<br>on the College  |  | Signature of the HoD   |
|         | 2  | ÷  |  |  |

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# 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

|   | 2010 2020)   |
|---|--|
| Date: 28th October, 2021 (Academ              | ic Year 2019 – 2020)   |
| 2.30 pm                                       | AFFIVATOL UTC Experted   |
| 2.30 pm to 2.50 pm                            | Brief outline, introduction by HoD   |
|   | Audit stage I, format I  |
| 2.50 pm to 4.00 pm                            | Audit stage II format II   |
| 4.15 pm to 5.15 pm                            | (Please bring the related documents, course files in   |
|   | hard copy or soft copy)  |
|   | Preparation of report  |
| 5.15 pm to 5.45 pm                            | $\frac{1}{2} = \frac{1}{2} = \frac{1}$ |
| Date: Day 2, 29 <sup>th</sup> October, 2021(A | cademic Year 2020 - 2021)  |
| 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  |
| 11.50 um to 11.1-                             | (Please bring the related documents, course files in   |
|   | hard copy or soft copy)  |
| 12.15 am to 12.45 noon                        | Preparation of report  |
|   | Concluding remarks by the Experts  |
| 12.45 noon to 1.00 pm                         | Vote of thanks   |
| 1.00 pm to 1.10 pm                            | Tote of this   |
| Auditors:                                     | D. Dah datta Batna (Scientist F)   |
| Dr. B. S. Gawali                              | Dr. Debdatta Ratna (Scientist F)   |
| Professor, Dept of Mechanical                 | HoD<br>Polymer Science & Technology  |
| Engineering WCE Sangali                       | Naval Materials Research Laboratory  |
|   | DRDO, Ambernath (East)   |
|   | DRDO, Ambernath (Bust)   |

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**

|     |  | Met/not<br>met | %<br>achieved |
|-----|--|----------------|---------------|
| 1   | LEARNING OBJECTIVES AND RESOURCES  |                |               |
| 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            |
| 2.  | CURRICULUM AND CO-CURRICULUM   |                |               |
| 2.1 | The faculty member collaborated with other faculty members<br>for effective design, sequence of courses and delivery of<br>course for improvements and documented these efforts<br>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<br>curriculum and co-curriculum comparing those with the best<br>practices elsewhere or in best institutes                                    | Met            | 65            |
| 3   | TEACHING AND LEARNING PROCESSES  |                |               |
| 3.1 | The faculty member analyzed his/her own methods for<br>improving teaching and learning throughout the program and<br>practiced them.   | Met            | 75            |
| 3.2 | The faculty member developed and promoted effective<br>instructional methods, other than lecturing, so that student<br>achieve the learning objectives.  | Met            | 75            |
|     | The faculty member developed materials for achieving student mastery of learning objectives.   | Met            | 85            |

| 4.0 | STUDENT LEARNING ASSESSMENT   |     |     |
|-----|---|-----|-----|
| 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<br>program.Met904.3The faculty member has documented assessments of student<br>learningMet904.4The faculty member has developed measurable indicators of<br>student learning successMet804.5The faculty member has developed and documented a<br>continuous improvement plan that incorporates multiple<br>measures to assess student learning and program<br>effectiveness.Met704.6The Student has put in his/her own efforts in the learning<br>process from resources outside the Institute.Met755.0QUALITY ASSURANCES1Met805.1There is an existing process in the Institute to understand the<br>parameters of quality of teaching and learning processesMet805.3There is an initiative to understand the parameters of quality of teaching and learning processesMet705.4The performance of students in Internal Assessment and<br>University Examinations is comparable.Met1005.5There is sufficient evidence of attempts to understand the<br>industries/ Society's need in delivery of appropriate course<br>content to the students or of academic<br>processes in the College.Met1006.0OVERALL ASSESSMENT6OVERALL ASSESSMENTMet806.3The Academic Audit process (self-study and visit) included<br>descriptions of the program's quality processes in cluding all<br>five focal areas.Met80   |
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| 4.3       The faculty member has documented assessments of student<br>learning       Met       90         4.4       The faculty member has developed measurable indicators of<br>student learning success       Met       80         4.5       The faculty member has developed and documented a<br>continuous improvement plan that incorporates multiple<br>measures to assess student learning and program<br>effectiveness.       Met       70         4.6       The Student has put in his/her own efforts in the learning<br>process from resources outside the Institute.       Met       75         5.0       QUALITY ASSURANCE       Met       80         5.1       There is an existing process in the Institute to understand the<br>parameters of quality of teaching and learning processes       Met       80         5.2       There is commitment to making continuous quality<br>improvements in the program a top priority       Met       70         5.3       There is sufficient feedback obtained from stakeholders in<br>development of academic processes in the College.       Met       100         5.5       There is sufficient evidence of attempts to understand the<br>industries/ Society's need in delivery of appropriate course<br>content to the students       Met       100         6       OVERALL ASSESSMENT       Intervalued inclustry of appropriate course<br>content to the students       Met       100         6.2       The Academic Audit process (self-study and visit) included<br>descriptions of the program'   |
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| 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         6       OVERALL ASSESSMENT       6       Met       100         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       OVERALL ASSESSMENT         6.1       The Academic Audit process was Faculty driven.         6.2       The Academic Audit process (self-study and visit) included descriptions of the program's quality processes including all five focal areas.         6.3       The Acudit resulted in e conditional conditis conditis conditional conditional conditional conditi  |
| 6       OVERALL ASSESSMENT         6.1       The Academic Audit process was Faculty driven.         6.2       The Academic Audit process (self-study and visit) included descriptions of the program's quality processes including all five focal areas.         6.3       The Audit resulted in a conditional process of the program.   |
| 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   |
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| <ul> <li>6.2 The Academic Audit process (self-study and visit) included descriptions of the program's quality processes including all five focal areas.</li> <li>6.3 The Audit resulted in a conditional formation of the program is a c</li></ul> |
| descriptions of the program's quality processes including all<br>five focal areas.   |
| five focal areas.  |
| 6.3 The Audit resulted in a condition  |
|  |
| b.5 The Audit resulted in a candid description of weaknesses in Met 80 program processes and suggestions for improvements.   |
| 64 [here is openpass and the neurophyse Cut Cut  |
| in completing the academic audit of this program.  |
| 65 The Academic Audit process included in 1  |
| inputs from stakeholder groups identified by the program's Met 85  |
| faculty members  |
| 7 FOLLOW-UP OF PREVIOUS AUDIT  |
| 71 An action plan was developed as a reach Cut   |
| An action plan was developed as a result of the previous Met 70<br>Academic Audit.   |
| 7.2 There is documented evidence that recommendations to the   |
| by the previous Academic Audit Team have been considered Met 70  |
| and, when feasible and appropriate, implemented and tracked.   |
| 7.3 There is documented evidence that the program had  |
| There is documented evidence that the program has been Met 95  |

|     | implemented and tracked the progress of and use of results<br>from improvement initiatives cited by the faculty its self-<br>study.                        |     |     |
|-----|--|-----|-----|
| 8   | SUPPORT  |     |     |
| 8.1 | The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources. | Met | 100 |
| 8.2 | The program's operating budget is consistent with the needs of the program.  | Met | 100 |
| 8.3 | The program has a history of enrolment rates sufficient to sustain high quality and cost-effectiveness.  | Met | 100 |
| 8.4 | The program has a history of graduation 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

012021 B. S. Gawali Dr.

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Professor, Dept of Mechanical Engineering WCE Sangali

A 10/21 Dr. Debdatta Ratna (Scientist F)

HoD Polymer Science & Technology Naval Materials Research Laboratory DRDO, Ambernath (East) Dr. BabasahebAmbedkar Technological University, Lonere

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

| S.No     |  | Grade<br>* | Impression  |
|----------|--|------------|---|
| 1        | Conduct of Classes   | А          | Well Conducted On Line and Off line mode  |
| 2        | Co-Curricular<br>Activities & Extra-<br>Curricular<br>Activities | А          | Good participation of students in Co-Curricular and extra-curricular activities through SAE, ISHRAE, MESA. Cynosure etc   |
| 3        | College Activity<br>Register                                     | А          | Record is Maintained  |
| <b>1</b> | Departmental<br>Activity Registers                               | А          | Well maintained records of different activities   |
| 5        | Discipline in the campus   | А          | 100% disciplined campus culture   |
| 6        | IQAC   | А          | Iin place, IQAC is ensuring to enhanced the overall quality   |
| 7        | Placement  | С          | Efforts are taken to enhance the placement. However, holistic efforts are<br>required to make the students industry ready. Never the less, overall<br>slowdown in core industries also affecting the placement globally |
| 8        | Departmental<br>research   | А          | Effective research outcome in terms of publications however patents filing should be improved.  |
| 9        | Career Guidance<br>Cell  | В          | Separate career guidance activities need to be established in TPO cell  |
| 10       | SWAYAM<br>facilities   | 0.1        | 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  | OB Ca      | Proper book orientation and book shelves need to be provided on urgent basis.   |
|          | Research &<br>Laboratories                                       | OB         | Many of the laboratories don't have partitions and proper demarcation.<br>Separate sitting arrangement with writing boards must be established at   |

Cubi

X

|      |  |                           | the earliest. However, there is good research facility and culture.   |
|------|--|---------------------------|---|
| 13   | Games & Sports                           | В                         | Students are participated in intra and inter sports competition however, can do better by motivating students to participate in various games |
| S.No | Item                                     | Grade<br>*                | Impression  |
| 14   | Humanities and<br>Foundation<br>Courses  | А                         | Included  |
| 15   | Teacher<br>Evaluation by<br>Students     | А                         | It is in place and well executed, online feedback can be started.   |
| 16   | Maintenance of<br>Registers              | А                         | Well maintained.  |
| 17   | Teaching Diaries &<br>Plans              | А                         | Available   |
| •    | NCC / NSS                                | А                         | Available   |
| 19   | Women<br>Empowerment<br>Cell             | А                         | Available at university level   |
| 20   | Professional Club                        | А                         | SAE, ISHRAE are active.   |
| 21   | Sanitation &<br>drinking water           | А                         | In good condition   |
| 22   | Cleanliness                              | А                         | satisfactory  |
| 23   | Functioning of<br>Teachers               | А                         | Good  |
| 24   | Over All<br>Impression on the<br>College | А                         | Good  |
| •    | Any Other important                      | Observation<br>prove with | n<br>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) 10/21

HoD Polymer Science & Technology Naval Materials Research Laboratory DRDO, Ambernath (East)

| -   |  |  |                           |                     |  |  |  |  |
|-----|--|--|---------------------------|---------------------|--|--|--|--|
|     | Dr. Babasaheb Ambedkar Technological University  |  |                           |                     |  |  |  |  |
|     | Academic Audit of Department   |  |                           |                     |  |  |  |  |
| Nor | Format L (Department Data)   |  |                           |                     |  |  |  |  |
| LDo | ne of the University Department:- Mechanical Engine<br>partment Profile                                      | eering Period of Aud   | lit: July 2019- June 2020 |                     |  |  |  |  |
| 1   |  |  | •                         |                     |  |  |  |  |
| 1   | Name of the University Department, Website, email and Ph. No.  | Department of Mec  | hanical Engineering, www. | dbatu.ac.in,        |  |  |  |  |
| -   |  | registrar@dbatu.ac.  | in, 02140 275142          |                     |  |  |  |  |
| 2   | Name of the HoD, email & Mob.No  | Dr Neerai Agrawal  | , neerajagrawal@dbatu.ac  | . 0.100.150005      |  |  |  |  |
| 3   | Name of the Vice Principal if  | 2.1. Heeruj Agrawal  |                           | c.in, 9422472997    |  |  |  |  |
|     | 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   |                           |                     |  |  |  |  |
|     |  | Dr. B. D. Ivaloarwar, sinaloarwar@dbatu.ac.in ,8/93814621  |                           |                     |  |  |  |  |
| 5   | Year of Establishment & own land if any  | 1992, Yes  |                           |                     |  |  |  |  |
| 7   | NBA accreditation of courses   |  |                           |                     |  |  |  |  |
| -   | A bit accreditation of courses   | Not accredited   |                           |                     |  |  |  |  |
| 8   | NAAC Grade with Cycle, Accredited Year & CGPA  | B Grade 1st Cycle  | 2015 2 25 NAACE           | 0                   |  |  |  |  |
|     | (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  | D  |  |                           |                     |  |  |  |  |
| 10  | Department Working Hours( if shift system mention details<br>of both shifts & give reasons for shift system) | 8.00 A.M. TO 6.00 P.M.   |                           |                     |  |  |  |  |
|     | or oom sints to give reasons for snift system)   |  |                           |                     |  |  |  |  |
| 11  | No. of Posts Sanctioned: 19  | Regular Faculty  | Contract                  | Adiana ( E ) have a |  |  |  |  |
|     | state buildtoned. Ty   | Working: 12  | FacultyWorking:03         | Adjunct Faculty:01  |  |  |  |  |
|     |  |  | Line of the orking.05     |                     |  |  |  |  |

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|    |   |   |   | 9.14   |     |
|----|---|---|---|--|-----|
|    |   | I-De  | epartment Profile   |  |     |
|    | Item  | Status ( Give Details, not just<br>Yes/No)  | Impression of Academic Advisor along<br>with grade A(Good)/B( Satisfactory)/C<br>(poor) after Observation | Recommendation/Suggestions by<br>Academic Advisors |     |
|    |   |   | Grade   |  |     |
| 1  | Implementation of<br>Annual Departmental<br>Plan            | Annual department plan was<br>prepared well before start of<br>academic Year  | А   | Well Implemented                                   | 403 |
| 1. | B<br>Departmental Annual<br>Curricular Plans                | Curricular plan was prepared well<br>before start of semester   | A   | Well Implemented                                   | 44  |
| 1- | Whether the above<br>two circulated among<br>Students?      | Annual Institutional Plan is<br>available on university Website   | A   | Well Implemented                                   | Yes |
| 15 | Department Activity<br>Register during the<br>academic year | Department has maintained<br>Registers for Departmental<br>meetings and BoS meetings. All<br>Minutes of meetings have been<br>recorded. | А   | Well maintained                                    | 45- |
| 16 | Department<br>Calendar/Department<br>Magazine               | Available on University website   | А   | Well maintained                                    | 43  |

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| 17 | Add-on Courses<br>(Department-wise)<br>completed during<br>previous year | PDE I subject is being taught with<br>the help of industry Auto desk   | В | Need to be enhanced   | 75  |
|----|--|--|---|---|-----|
| 18 | Add-on Courses<br>(Department-wise)<br>during current<br>academic year   | PDE II, subject is being taught<br>with the help of industry Auto<br>desk  | В | Need to be enhanced   | 7-9 |
| 19 | Coverage of Syllabus<br>(Average Percentage)                             | Approximately 80% (Student<br>Feedback on Syllabus Coverage is<br>available). Attendance online record<br>is also available on the University<br>web-portal. | А | Well Implemented  | 17- |
| 20 | Teaching of<br>Humanities &<br>Foundation Courses                        | Implemented as per guidelines by<br>UGC/AICTE  | А | Incorporated as per UGC/AICTE guidelines  | ¥g. |
| 21 | No. of New UG & PG<br>Courses introduced<br>this year:                   | No   |   | Department has proposed industry<br>collaborative PG courses to the University<br>authority | 73  |
| 22 | Maintenance of<br>Student Attendance<br>Registers                        | Maintained. for each semester  | Α | Well Maintained   | 43- |

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|    |  | III-TEACHING  | G, LEARNING & EVALUATIO | DN   |   |
|----|--|---|-------------------------|--|---|
| 23 | Teaching Diaries &<br>Teaching Plans in<br>Prescribed Formats            | Teaching Plan and Course files are<br>maintained by individual faculty<br>members.  | A                       | Available  | V |
| 24 | Co-Curricular<br>Activities (<br>Department level)                       | Fraternity of Information<br>Technology (Students Association)<br>activities and Participation record<br>is available.  | Α                       | AVISHKAR, SAE, ISHRAE, etc. Online<br>Expert Lecture. Cynosure (Tech Fest) was<br>planned and students were prepared, however,<br>could not be held due to pandemic.                   | V |
| 25 | Academic<br>Competitions (<br>University Level &<br>Above)               | Fraternity of Information<br>Technology (Students Association)<br>activities and Cynosure tech fest.<br>Participation record is available.  | Α                       | AVISHKAR, Cynosure, SAE, ISHRAE, etc.<br>Online BAJA SAE Competition Cynosure<br>(Tech Fest) was planned and students were<br>prepared, however, could not be held due to<br>pandemic. | 4 |
| 26 | Conduct of Internal<br>Examinations-Unit,<br>Half-Yearly and<br>Prefinal | Continuous assessment is carried<br>out by the individual faculty<br>members. Mid test is conducted by<br>the examination department.<br>Record of Continuous assessment<br>is available. | ٨                       | Routinely done   | ~ |

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|----|--|---|----|---|----|--|--|--|
| 27 | Subject wise result<br>analysis  | Record is available.  | ٨  | Routinely done  | 72 |  |  |  |
| 28 | Teacher wise result<br>analysis  | Record is available.  | Α  | Routinely done  | 4  |  |  |  |
| 29 | Remedial Classes   | Partially conducted, However,<br>students are mentored by the<br>faculty individually, online and<br>offline. | BC | Summer refresh courses and make up classes<br>can be conducted. | -  |  |  |  |
| 30 | Record of Evaluation<br>of Teachers by<br>Students                           | Feedback on Teachers by the students is taken and analysis is carried out.                                    | Α  | Well Implemented  | ~  |  |  |  |
|    | IV-RESEARCH AND CONSULTANCY  |   |    |   |    |  |  |  |
| 31 | Is the Department a<br>Recognized Research<br>Centre                         | Yes   | Α  | Yes   | ~  |  |  |  |
| 32 | No. of Research<br>Guides in the<br>Department                               | 11  | Α  | Н   | -  |  |  |  |
| 33 | No. of Research<br>Scholars working for<br>Masters & Ph. D                   | Ph. D -36<br>Masters - 17   | Α  |   | -  |  |  |  |
| 34 | Major/Minor/Other<br>Research Projects                                       | NIL   |    |   | 1  |  |  |  |
| 35 | Research Papers<br>Published in previous<br>academic year<br>(International/ | International Journal - 26  | Α  |   | 1  |  |  |  |

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|                         | National)  |   |   |                      |   |  |
|-------------------------|--|---|---|----------------------|---|--|
| -                       |  |   |   |                      | _ |  |
| 3                       | Papers Presented in<br>previous academic<br>year(International/<br>National/ State)            | Conferences: 04   | Α |                      |   |  |
| 3                       | Books Published in<br>previous Academic<br>year (Single Author/<br>Co Author)                  |   | С | Need to be initiated | 1 |  |
| 38                      | Seminars/Workshops/<br>Training Programme<br>Conducted<br>(International/<br>National/ State ) | -Pedagogical and Assessment<br>Techniques for Product Design<br>Engineering, Dr. BATU (Feb<br>25- March 6, 2019), Research<br>Methodology (Nov 2019),<br>-Recent Trends in Welding and<br>Joining Technology, Dr. BATU<br>26-30 November, 2019<br>-Mathematical Modelling and<br>Numerical Techniques (9 – 13<br>December 2019)<br>FEM (March 2020) | A |                      | 2 |  |
| 39                      | Record of Consultancy<br>in previous academic<br>year  | peil  | С |                      |   |  |
| 40                      | Record of MoUs in previous academic year   | Alicon cast alloy Pune  | В | 0                    | - |  |
| VI-EXTENSION ACTIVITIES |  |   |   |                      |   |  |

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|    | Record of   |  |   |   |   |
|----|---|--|---|---|---|
| 41 | Subject/Department<br>Related Extension<br>Activities           | Record of few activities is<br>maintained by the department  | Α |   | L |
| 42 | Name of the NSS PO<br>& Mobile No.                              | Dr H. N. Warhatkar, 9403316374   | A | NSS University Cordinator   |   |
| 43 | NSS Attendance<br>register                                      | Maintained at University Level   | Α | Actively participants from Mechanical department (36 Students)  | L |
| 44 | NSS Activity register   | Maintained at University Level   | Α | Maintained at University Level  | - |
| 45 | Name of the NCC<br>ANO & Mobile No.                             | Dr. M. P. Bhagat, 7588265601   | A |   | L |
| 46 | NCC Attendance<br>register                                      | Maintained at University Level   | ٨ | Maitained at University Level   | ~ |
| 47 | NCC activity register   | Maintained at University Level.<br>Annual Activity Report 2017-18 is<br>maintained by the department.                                  | ٨ | Maitained at University Level<br>Blood Donation Camp -230(2019-20)<br>National Yoga Day-300(2019-20)<br>Annual NCC Camp-50(2019-20) | - |
| 48 | Name of the<br>professional Club<br>Coordinator & Mobile<br>No. | SAE<br>Dr. R. S. Pawade<br>Mo. No. – 8698559938<br>ISHRAE<br>Dr. N Agrawal<br>Mo. No 9422472997  | А |   | 1 |
|    | Professional Club<br>Activities                                 | SMART Energy software<br>Training, Participation in<br>JAMBOORI 7, K-12 activity,<br>Tech Paper presentation, \<br>SAE- BAJA activity, | ٨ |   | 1 |

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| 50   | Name of the Women<br>Empowerment Cell<br>(WEC) Coordinator &<br>Mobile No. | Maintained at University Level  | Α    | Maintained at University Level                                      | ~ |
| 51   | WEC Activities   | Maintained at University Level  | Α    | 1   | - |
| 52   | Name of the Eco-Club<br>Coordinator & Mobile<br>No.                        | Dr. R. P. Kate Faculty<br>coordinator for Sustainable<br>development  | A    |   |   |
| 53   | Eco- Club Activities   | Expert talks  | OBCH | Expert Jatk With driven R.S. D.<br>Premsagar Misti con organizal. 2 | _ |
| 54   | Name of the Consumer<br>Club Coordinator &<br>Mobile No.                   | Not in Place however,<br>Cooperative society in place at<br>University level  | с    | lectusquer misti con organica                                       | - |
| 55   | Consumer Club<br>Activities  | No, However, Cooperative society in place at University level   | с    | 1   | - |
| 56   | Any other Club   | Mechanical Engineering Students<br>Association (MESA)<br>$\mathbf{Dr} \cdot \mathbf{S} \cdot \mathbf{R} \cdot \mathbf{Shafe}$ ,               | ۸    | Ten different clubs are functional                                  |   |
| IV-I | LEARNING RESOURCI  | ES  |      |   |   |
| 57   | Name of the Librarian<br>& Mob. No   | S.P. Vaidya,94233382280   | Ą    |   |   |
| 58   | Access timings of the<br>Library   | 9.30 Am and 5.30 PM. on<br>working days. The library hours<br>are extended during the time of<br>final examinations<br>9.0 am to 7.30 Pto 100 | Α    | 2   | - |

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

| 60    | 5 Status of SWAYAM<br>facilities functioning             | University is recognized as an ACTIVE Local Chapter.<br>EDUSAT hall is used.                       | Α |  |
|-------|--|--|---|--|
| 67    | Whether SWAYAM<br>schedule is circulated<br>the students | It is circulated by<br>Dr. R. S. Pawade and<br>Dr. S. L. Nalbalwar                                 | Α |  |
| 68    | Register   | Partially maintained at University<br>Level by concerned coordinator                               | Α |  |
| VII   | -Student Support Activi                                  | ties   |   |  |
| 69    | Name of the<br>Physical/Sports<br>Director & Mob.No      | Dr. P. B. Lokhande, 8600674584   |   |  |
|       | Record of Physical<br>Education/Sports<br>Department     | Record is maintained at university level   | А | Need to improve                          |
|       | Records of events conducted                              | University Sports –<br>Participants No20 (2019-20)   | A | Record is maintained at university level |
| 2   a | ichievements in Sports                                   | List of winners from mechanical<br>department in Sports events is<br>available. Detailed Record is | Α | Record is maintained at university level |

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|    |   | maintained at university level.   |   |   | 7 |
| 73 | Record of Cultural<br>programmes                                    | -Induction cum fresher welcome  | ٨   | Cultural events could not take place due to |   |
|    | conducted   |   |   | pandemic                                    |   |
| 74 | Record of any other<br>extra-curricular<br>activities conducted     |   |   |   |   |
| 75 | Maintenance of<br>Placement Cell<br>facilities & records            | Detailed Record is maintained at<br>university level  | Α   |   | L |
| 76 | Record of Student<br>trained and placed                             | Detailed Record is maintained at<br>university level  | Α   |   | L |
| 77 | Name of Career<br>Guidance Cell<br>Coordinator & Mob.<br>No         | Dr. N. Agrawal 9422472997   |   |   | ~ |
| 78 | Record of activities<br>Career Guidance                             | Soft skill training and start up<br>workshops   | Α   | N   | - |
| 79 | Departmental Review<br>Committee (DRC)<br>Coordinator & Mob.<br>No. | Committees are in place for<br>review of the BTS, TPCS and<br>BTP. MTP, MTS Prof. M. S.<br>Tandale and Prof. R. P. Kate   |   |   | - |
| 00 | Implementation of<br>DRC Action Plan                                | Allotment and evaluation record<br>is maintained  | ٨   |   |   |
| 81 | IQAC activities &<br>maintenance of<br>records , (Action            | Partially it is done  | ·   |   | - |

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|   |                | Plan / ) [            |   |   |  |       |
|---|----------------|-----------------------|---|---|--|-------|
|   |                | Plan/Minutes of       |   |   |  |       |
|   |                | Meeting/Proof of      |   |   |  |       |
|   |                | submission of AQAR    |   |   |  |       |
|   |                | to NAAC/Activity      |   |   |  |       |
| - | -              | register etc)         |   |   |  |       |
|   | 82             | Record of Support by  | Helped to arrange internship                        |   |  |       |
|   | 02             | Alumni Association    | placement and                                       |   |  |       |
| T |                |                       | ,placement and expert talk.                         |   |  | L     |
|   |                | Record of Grievance   | Record of Grievance Redressal                       |   |  |       |
|   | 83             | Redressal Cell / Anti | Cell and Women's Grievance                          | В |  | 1-    |
|   |                | Ragging cell          | Redressal Committee is maintained                   | D |  | -     |
|   |                |                       | at University level.                                |   |  |       |
|   |                |                       |   |   |  | -     |
|   |                | Dan J. C. A. S        |   |   |  |       |
|   | 84             | Record of Anti        | Available   | Α |  | -     |
|   |                | Ragging cell          |   |   | Record is maintained at university level       |       |
|   |                |                       |   |   |  |       |
|   |                |                       |   |   |  |       |
|   | VIII           | I-Basic Amenities     |   |   |  | -     |
|   | -              |                       |   |   |  |       |
|   |                |                       |   |   |  |       |
|   | 85             | Maintenance of        | Some water coolers and filters are                  |   | Water coolers and filters are available in the |       |
|   | 0.)            | drinking water        | available   | Λ | campus.  |       |
|   |                |                       |   |   | cum p unit                                     | 1     |
|   | 1. Contraction |                       | Martine and the second second                       |   |  |       |
|   |                |                       |   |   |  |       |
|   | 86             | Maintenance of        |   | ٨ |  |       |
|   | 00             | sanitation            | Maintained  | A |  | L     |
| - |                |                       |   |   |  | 100-0 |
|   | 1              |                       |   |   |  |       |
|   |                |                       |   |   |  |       |
|   | 07             | Rest room for women   | Available at University level on the                |   |  | 1-    |
|   | 87             | students              | ground floor  | Α | available at every floor                       | -     |
|   |                |                       | Stound 1001   | A |  |       |
|   |                |                       |   |   |  |       |
| F |                |                       | Maintained at Daimarity In 11                       |   |  |       |
|   | 88             | Greenery              | Maintained at University Level by<br>Estate section |   | University workers are appointed for the       | _     |
| L | 1999           |                       | Lotate section                                      |   | purpose.                                       | /     |

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|     |  |  | Α |  |   |
|-----|--|--|---|--|---|
| 89  | Cleanliness  | Maintained at University Level by<br>Estate section                | A | University workers are appointed for the purpose |   |
| 90  | Health Care Facility   | University has its own primary<br>health care centre               | Δ | First Aid Kit is available with department       | - |
| 91  | Canteen  | Canteen is available to students<br>and faculties.                 | Α | Available  |   |
| 17- | GOVERNANCE AND   | LEADERSHIP   |   |  |   |
| 92  | Management<br>Committee Register   | Records of various meetings are maintained by Registrar Office.    | Α |  |   |
| 93  | Functioning of<br>Committees in<br>Administration<br>(Minutes of meetings) | In Place Records are maintained<br>by the office of the Registrar. | Α |  |   |

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|--|--|--|---|---|--|--|
| Awards/Achievements  |  |  |   |   |  |  |
| Faculty development initiatives if any                         | QIP scheme, participation in<br>conferences and seminars, FDPs<br>etc  | Α  |   |   |  |  |
| IT INITIATIVES   |  |  |   | -   |  |  |
| E-Class rooms (<br>Number & Usage)                             | 01 Smart Classroom (LH 206) is functioning.  | A  |   | L   |  |  |
| 7 Internet Centre  | Leased Line from BSNL of<br>1Gbps Accessed through<br>centralized facility<br>(2 Servers) at University level  | Α  | Computer center with own server is available<br>at University. Connectivity should be<br>, improved   | 1   |  |  |
| systems)   | 01 Labs (35 Working PCs)   | ٨  |   | 1   |  |  |
| XI-Best Practices  |  |  |   |   |  |  |
| Record of<br>best/innovative<br>practices by the<br>Department | <ol> <li>TPCS</li> <li>2) 24 hrs lab access to the students<br/>and faculty</li> <li>3) Research publication through B.</li> </ol>   | Α  |   | 2   |  |  |
|  | Faculty development initiatives if any         IT INITIATIVES         E-Class rooms (Number & Usage)         Internet Centre         Computer labs (No. of labs & working systems)         Best Practices         Record of best/innovative practices by the | Faculty development initiatives if any       QIP scheme, participation in conferences and seminars, FDPs etc         IT INITIATIVES       E-Class rooms (<br>Number & Usage)       01 Smart Classroom (LH 206) is functioning.         Internet Centre       Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level         Computer labs (No. of labs & working systems)       01 Labs (35 Working PCs)         Best Practices       Non of labs & to the students and faculty | Faculty development       QIP scheme, participation in conferences and seminars, FDPs etc       A         IT INITIATIVES       A         E-Class rooms (Number & Usage)       01 Smart Classroom (LH 200) is functioning.       A         Internet Centre       Leased Line from BSNL of 1Gbps Accessed through centralized facility (2 Servers ) at University level       A         Computer labs (No. of Ilabs & working systems)       01 Labs (35 Working PCs)       A         Best Practices       1)TPCS       A | Image: Paculty development mutatives if any etc     QIP scheme, participation in conferences and seminars, FDPs etc       Faculty development mutatives if any etc     QIP scheme, participation in conferences and seminars, FDPs etc       IT INITIATIVES       E-Class rooms (     01 Smart Classroom (LH 206) is       K-Class rooms (     01 Smart Classroom (LH 206) is       K-Class rooms (     01 Smart Classroom (LH 206) is       Internet Centre     Leased Line from BSNL of IGbps Accessed through centralized facility (2 Servers) at University level       A     Computer center with own server is available at University. Connectivity should be , improved       Gomputer labs (No. of labs & working systems)     01 Labs (35 Working PCs)     A       Best Practices     Record of best/innovative practices by the     1)TPCS |  |  |

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|     |   | Tash /M Task D                               |  |   |
|-----|---|--|--|---|
|     |   | Tech./M. Tech. Project                       |  |   |
| 100 | Department Activity<br>Register & Hard Copy<br>of AQAR of previous<br>year (should be<br>available with the<br>Principal) | Available                                    | ٨  | Annual Report are maintained and submitted<br>by department to VC office. |
|     |   |  | Signatures of Academic<br>Advisors   |   |
|     |   |  | <b>Dr. B.<sup>4</sup>S. Gawali</b><br>Professor<br>Dept of Mechanical          |   |
|     |   |  | Engineering<br>WCE Sangali   |   |
|     |   |  | Dr. Debdatta Ratna<br>(Scientist F)<br>HoD<br>Polymer Science &                | [2]   |
|     |   |  | Technology<br>Naval Materials Research<br>Laboratory<br>DRDO, Ambernath (East) |   |
|     |   | nature of the HoD                            |  |   |
|     | Note: the Dormar is not to the Academic Auch  | be filled by the HoD and submitted<br>t Team |  |   |

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|---|--|--|--|---------------------|--|
|   | Er. BabasahebAmbed   | dkar Technological University            |  |                     |  |
|   | Format for submission of   | udit of Department                       |  |                     |  |
| Nam   | Format for submission of<br>e of the University Department:-Mechanical Engine<br>partment Profile            | Academic Advisors I                      | Report (AAR)   |                     |  |
| 1-Dej   |  | eringPeriod of Audit                     | : 2019 - 2020  |                     |  |
| 1   | Name of the University Department, Website, email and Ph.No.   | Department of Mech<br>neerajagrawal@dbat | anical Engineering,www.<br>u.ac.in, 9422472997                                   | dbatu.ac.in,        |  |
| 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                                       |  |                     |  |
| <sup>4</sup> Name of the IQAC Coordinator, email & Mob. No. Dr. S. L. Nalbalwar@dbatu.ac.in ,879381 |  |  |  |                     |  |
| 5   | and it ally  | 1992, Yes                                |  |                     |  |
| 7   | NBA accreditation of courses   | Not accreditated                         |  |                     |  |
| 8   | NAAC Grade with Cycle, Accredited Year & CGPA (Status of preparation if not Accredited)                      | Date- EC(SC)_05_A                        | 2015,2.35 NAAC Executiv<br>&A _083 dated 3-3-2015-<br>r Technological University | Dr.                 |  |
| 9   | UGC Recognition (2F & 12 B)  | Yes                                      |  |                     |  |
| 10  | Department Working Hours( if shift system mention details<br>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<br>Working: 12           | Contract<br>FacultyWorking:03  | Visiting Faculty:01 |  |

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

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

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

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

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

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

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

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

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

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|     | Maintenance of  |     |  |  |
|-----|---|-----|--|--|
| 13  | SWAYAM Viewers'<br>Register                                     | А   | Partially maintained at University<br>Level by concerned coordinator   |  |
|     |   |     |  |  |
| VII | -Student Support Activit  | ies |  |  |
| 1   | Name of the<br>Physical/Sports<br>Director &Mob.No              |     | Dr. P. B. Lokhande, 8600674584   |  |
| 2   | Record of Physical<br>Education/Sports<br>Department            | А   | Record is maintained at<br>university level  |  |
| 3   | Records of events conducted                                     | А   | University Sports –<br>Participants No20 (2019-<br>20)   |  |
| 4   | Records of significant<br>achievements in Sports<br>& Games     | А   | List of winners from Mechanical<br>Engineering department in<br>Sports events is available.<br>Detailed Record is maintained at<br>university level. |  |
| 5   | Record of Cultural<br>programmes<br>conducted                   | А   | Dept students' Participation<br>Record maintained. Detailed<br>Record is maintained at<br>university level.  |  |
| 6   | Record of any other<br>extra-curricular<br>activities conducted | A   | Dept students' Participation<br>Record maintained.   |  |

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

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| 14  | Record of Support by<br>Alumni Association                   | В | Alumni Association registration is in progress.  |  |
| 15  | Record of Grievance<br>Redressal Cell / Anti<br>Ragging cell | В | Record of Grievance Redressal<br>Cell and Women's Grievance<br>Redressal Committee is<br>maintained at University level. |  |
| 16  | Record of Anti<br>Ragging cell                               | A | Available at University Level  |  |
| VII | I-Basic Amenities  |   |  |  |
| 1   | Maintenance of<br>drinking water                             | А | Some water coolers and filters are available   |  |
| 2   | Maintenance of sanitation                                    | С | Maintained   |  |
| 3   | Rest room for women<br>students                              | А | Available at University level on<br>the ground floor   |  |
| 4   | Greenery   | А | Maintained at University Level<br>by Estate section  |  |
| 5   | Cleanliness  | А | Maintained at University Level by Estate section   |  |

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

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|------|--|---|---|
| 2    | Internet Centre  | А | Leased Line from BSNL of<br>1Gbps Accessed through<br>centralized facility (2 Servers ) at<br>University level  |
| 3    | Computer labs (No.<br>of labs & working<br>systems)            | A | 01 Labs (Working PCs)   |
| XI-J | Best Practices   |   |   |
| 1    | Record of<br>best/innovative<br>practices by the<br>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<br>Register & Hard Copy                    | А | Available   |

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

Note, the Lorman is to be filled by the HoLD and submitted to the Academic Audit Feam

# 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

| Date: 28th October, 2021 (Academ  | Date: 28th October, 2021 (Academic Year 2019 – 2020) |  |  |  |  |  |
|-----------------------------------|--|--|--|--|--|--|
| 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                                |  |  |  |  |  |
| Date: Day 2, 29th October, 2021(A | cademic Year 2020 – 2021)                            |  |  |  |  |  |
| 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                                       |  |  |  |  |  |
| Auditors:                         |  |  |  |  |  |  |
| Dr. B. S. Gawali                  | Dr. Debdatta Ratna (Scientist F)                     |  |  |  |  |  |
| Professor, Dept of Mechanical     | HoD  |  |  |  |  |  |
| Engineering WCE Sangali           | 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

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# 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<br>met | %<br>achieved |
|-----|--|----------------|---------------|
| 1   | LEARNING OBJECTIVES AND RESOURCES  |                |               |
| 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            |
| 2.  | CURRICULUM AND CO-CURRICULUM   |                |               |
| 2.1 | The faculty member collaborated with other faculty members<br>for effective design, sequence of courses and delivery of<br>course for improvements and documented these efforts<br>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<br>curriculum and co-curriculum comparing those with the best<br>practices elsewhere or in best institutes                                    | Met            | 75            |
| 3   | TEACHING AND LEARNING PROCESSES  |                |               |
| 3.1 | The faculty member analyzed his/her own methods for<br>improving teaching and learning throughout the program and<br>practiced them.   | Met            | 85            |
| 3.2 | The faculty member developed and promoted effective<br>instructional methods, other than lecturing, so that student<br>achieve the learning objectives.  | Met            | 95            |
|     | The faculty member developed materials for achieving student mastery of learning objectives.   | Met            | 95            |

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| 4.0 | STUDENT LEARNING ASSESSMENT   |           |     |
|-----|---|-----------|-----|
| 4.1 | The Faculty member has announced the method of  | Met       | 100 |
|     | continuous assessment at the beginning of the course and                                |           |     |
|     | followed it throughout.   |           |     |
| 4.2 | The faculty member developed techniques, other than written                             | Met       | 95  |
|     | test, for the student learning assessments to improve the                               |           |     |
|     | program.  |           |     |
| 4.3 | The faculty member has documented assessments of student                                | Met       | 100 |
|     | learning  |           |     |
| 4.4 | The faculty member has developed measurable indicators of                               | Met       | 100 |
|     | student learning success  |           |     |
| 4.5 | The faculty member has developed and documented a                                       | Met       | 80  |
|     | continuous improvement plan that incorporates multiple                                  |           |     |
|     | measures to assess student learning and program   |           |     |
|     | effectiveness.  |           |     |
| 4.6 | The Student has put in his/her own efforts in the learning                              | Met       | 90  |
|     | process from resources outside the Institute.   |           | 1   |
| 4.7 | The students are challenged enough to use their knowledge                               | Met       | 85  |
|     | creatively  | 1.662     |     |
| 5.0 | QUALITY ASSURANCE   |           |     |
| 5.1 | There is an existing process in the Institute to understand the                         | Met       | 70  |
|     | parameters of quality of teaching and learning processes                                |           |     |
| 5.2 | There is an initiative to understand the parameters of quality                          | Met       | 70  |
|     | of teaching and learning processes, if not existing.                                    |           |     |
| 5.3 | There is commitment to making continuous quality  | Met       | 60  |
|     | improvements in the program a top priority  |           |     |
| 5.4 | The performance of students in Internal Assessment and                                  | Met       | 100 |
| 5.5 | University Examinations is comparable.  |           |     |
| 5.5 | There is sufficient feedback obtained from stakeholders in                              | Met       | 90  |
| 5.6 | development of academic processes in the College.                                       |           |     |
| 5.0 | There is sufficient evidence of attempts to understand the                              | Met       | 80  |
|     | industries/ Society's need in delivery of appropriate course<br>content to the students |           |     |
| 6   | OVERALL ASSESSMENT  |           |     |
| 6.1 | The Academic Audit process was Faculty driven.  | Met       | 100 |
|     |   | Wiet      | 100 |
| 6.2 | The Academic Audit process (self-study and visit) included                              | Met       | 70  |
|     | descriptions of the program's quality processes including all                           |           |     |
|     | five focal areas.   |           |     |
| 6.3 | The Audit resulted in a candid description of weaknesses in                             | Met       | 80  |
|     | program processes and suggestions for improvements.                                     |           |     |
| 6.4 | There is openness and thoroughness of the faculty members                               | Met       | 100 |
|     | in completing the academic audit of this program.                                       |           |     |
| 6.5 | The Academic Audit process included involvement of and                                  | Met       | 75  |
|     | inputs from stakeholder groups identified by the program's                              |           |     |
| -   | faculty members   |           |     |
| 7   | FOLLOW-UP OF PREVIOUS AUDIT   |           |     |
| 7.1 | An action plan was developed as a result of the previous                                | Could not |     |

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|     | And with A 11   | be                         | 1   |
|-----|---|----------------------------|-----|
|     | Academic Audit  | done due<br>to             |     |
| 7.2 | There is documented evidence that recommendations made  | pandemic<br>Could not      | 80  |
|     | by the previous Academic Audit Team have been considered and, when feasible and appropriate, implemented and tracked  | done due<br>to<br>pandemic |     |
| 7.3 | There is documented evidence that the program has been<br>implemented and tracked the progress of and use of results<br>from improvement initiatives cited by the faculty its self-<br>study. | Met                        | 95  |
| 8   | SUPPORT   |                            |     |
| 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

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

Dr. Debdatta Ratna (Scientist)F)/10/21

HoD Polymer Science & Technology Naval Materials Research Laboratory DRDO, Ambernath (East) Dr. BabasahebAmbedkar Technological University, Lonere

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

| S.No | Item   | Grade<br>* | Impression   |  |
|------|--|------------|--|--|
| 1    | Conduct of Classes   | А          | Well Conducted ONLINE  |  |
| 2    | Co-Curricular<br>Activities & Extra-<br>Curricular<br>Activities | Α          | Good participation of students in Co-Curricular and extra-curricular activities Expert talks through online mode   |  |
| 3    | College Activity<br>Register                                     | А          | Maintained records properly  |  |
| ٠    | Departmental<br>Activity Registers                               | А          | Well maintained records of different activities.   |  |
| 5    | Discipline in the campus   | А          | Good discipline.   |  |
| 6    | IQAC   | А          | IQAC is ensuring to enhanced the overall quality.  |  |
| 7    | Placement  | С          | 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<br>research   | А          | Relatively better research outcome in terms of publication, more patents can be filed.   |  |
| •,   | Career Guidance<br>Cell  | В          | Presently it is being done through placement cell however, separate career guidance activities need to be established.   |  |
| 10   | SWAYAM<br>facilities   | А          | <ul> <li>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.</li> <li>Department library is maintained with good number of volume.</li> </ul> |  |
| 11   | Library  | А          |  |  |
| 12   | Research &   | А          | There are self-contained laboratories, however, few needs partitions   |  |

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

\* A(Good)/B(Satisfactory)/C (poor) Dr. B. S. Gawali Professor, Dept of Mechanical Engineering

Dept of Mechanical Engineering WCE Sangali

ety Dr. Debdatta Ratna (Scientist F) 10 21 HoD 21 10 21

Polymer Science & Technology Naval Materials Research Laboratory DRDO, Ambernath (East)

|   | Dr. Babasaheb Ambee  | dkar Technological I                                     | 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.   |  | nanical Engineering,www.<br>tu.ac.in, 9422472997                                | .dbatu.ac.in,            |  |  |  |  |  |  |
| 2   | Name of the HoD, email & Mob.No  | Dr. Neeraj Agrawal                                       | , neerajagrawal@dbatu.a   | c.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<br>(Status of preparation if not Accredited)                   | Date- EC(SC)_05_A  | 2015,2.35 NAAC Executi<br>A&A _083 dated 3-3-2015<br>ar Technological Universit | 5-Dr.                    |  |  |  |  |  |  |
| 9   | UGC Recognition (2F & 12 B)  | Yes  |   |                          |  |  |  |  |  |  |
| 10  | Department Working Hours( if shift system mention details<br>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<br>Working: 12                           | Contract<br>FacultyWorking:05   | Adjunct Faculty:-<br>NIL |  |  |  |  |  |  |
| 144 C   |  |  |   |                          |  |  |  |  |  |  |

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

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

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

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| -  |   |  | 21                 |  |
|----|---|--|--------------------|--|
| 29 | Remedial Classes  | Nil, However, students are free to<br>approach individual teacher to<br>solve the doubt. | С                  | Summer refresh courses and make up classes can be conducted. |
| 30 | Record of Evaluation<br>of Teachers by<br>Students  | Feedback on Teachers by the students is taken and analysis is carried out.               | ٨                  | Well Implemented   |
|    |   | IV-RESEARC   | CH AND CONSULTANCY |  |
| 31 | Is the Department a<br>Recognized Research<br>Centre                                      | Yes  | Α                  |  |
| 32 | No. of Research<br>Guides in the<br>Department  | 11   | Α                  |  |
| 33 | No. of Research<br>Scholars working for<br>Masters & Ph. D                                | Ph. D - 30<br>Masters - 05   | Α                  |  |
| 34 | Major/Minor/Other<br>Research Projects  | Nil  | -                  | Du to Pendenic<br>liturion. Should be le                     |
| 35 | Research Papers<br>Published in previous<br>academic year<br>(International/<br>National) | International Journal - 21   | Α                  |  |
| 36 | Papers Presented in<br>previous academic<br>year(International/<br>National/ State )      | Conferences: 09  | Α                  |  |

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Books Published in previous Academic C Need to be initiated 37 year (Single Author/ Co Author) Considerig Pendamic Situation it is a capped. Seminars/Workshops/ Training Programme FDP on Modelling of Mfg 38 Conducted Processes in Online mode, (International/ Α National/State) Record of Consultancy Consultancy Project for B Need to be enhanced 39 in previous academic MNGL, Pune-01 vear - TATA Technologies Ltd, Record of MoUs in Need to be enhanced ۸ 40 Pune previous academic year VI-EXTENSION ACTIVITIES Record of Subject/Department Record of few activities is NSS/Training /etc. 41 Related Extension maintained by the department Activities Name of the NSS PO 42 H. N. Warhatkar, 9403316374 & Mobile No. Actively participants from Mechanical NSS Attendance 43 Maintained at University Level Α department (36 Students) register

| 4  | 14 | NSS Activity register  | Maintained at University Level   | Α | Maitained at University Level  |
|----|----|--|--|---|--------------------------------|
| 4  | 45 | Name of the NCC<br>ANO & Mobile No.  | Dr. M. P. Bhagat, 7588265601   |   |                                |
| 4  | 16 | NCC Attendance<br>register   | Maintained at University Level   | Α | Maitained at University Level  |
| 4  | 7  | NCC activity register  | Maintained at University Level.<br>Annual Activity Report 2017-18 is<br>maintained by the department.        | А | Maitained at University Level  |
| 4  | 8  | Name of the<br>professional Club<br>Coordinator & Mobile<br>No.            | SAE<br>Dr. R. S. Pawade<br>Mo. No. – 8698559938<br>ISHRAE<br>Dr. N Agrawal<br>Mo. No 9422472997              |   |                                |
| 4  | .9 | Professional Club<br>Activities  | ISHRAE Orientation<br>programme, Tech Opinion,<br>Poster making competition, ISTL,<br>CINE QUIZ COMPETITION. | Α |                                |
| 51 | 0  | Name of the Women<br>Empowerment Cell<br>(WEC) Coordinator &<br>Mobile No. | Maintained at University Level   | Α | Maintained at University Level |
| 5  | 1  | WEC Activities   | Maintained at University Level   | ۸ |                                |
| 52 | 2  | Name of the Eco-Club<br>Coordinator & Mobile<br>No.                        | Dr. R. P. Kate   |   |                                |
| 53 | 3  | Eco- Club Activities   | A few TPCS project on  |   | Product driven R & D           |

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|    |  | sustainable development such<br>as System of collecting Dead<br>animals, Smart pen etc  | A  |  |
| 54 | Name of the Consumer<br>Club Coordinator &<br>Mobile No. | Not in Place however,<br>Cooperative society in place at<br>University level  | С  |  |
| 55 | Consumer Club<br>Activities                              | No, However, Cooperative<br>society in place at University level  | С  |  |
| 56 | Any other Club   | Mechanical Engineering Students<br>Association (MESA)   | Α  | MESA, X'ELERATE  |
| IV | LEARNING RESOURC   | ES  |    |  |
| 57 | Name of the Librarian<br>& Mob. No                       | S.P.Vaidya,94233382280  |    |  |
| 58 | Access timings of the<br>Library                         | 9.30 Am and 5.30 PM. on<br>working days. The library hours<br>are extended during the time of<br>final examinations.  | ۸  |  |
| 59 | Circulation of Books<br>among Students                   | LIBMAN (Library Software) is<br>used for circulation transaction.<br>Library also runs book bank<br>scheme sponsored by the Govt.<br>of Maharashtra.<br>http://dbatulibrary/opac or<br>http://172.16.5.238/opac) online<br>public access catalogue is used. | BA | Book bank, etc.  |
| 60 | Availability of Previous<br>years Question papers        | Last 3 years question papers are available with course files for each   | Α  | Last Three years question papers are available<br>with department. |

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|    |   | course is prepared by every faculty members.   |   |  |
|----|---|--|---|--|
| 61 | Record of Visitors  | Maintained by University Library<br>The library is having open access.   | ٨ | Maitained by Library and Department Library<br>is maintained by Lab Assistant. |
| 62 | Status of Library<br>Automation                             | The library is partially<br>computerized with the help of<br>LIBMAN (Library Software). The<br>circulation transaction, Barcode<br>generation, No dues certificates,<br>Reminder etc. work is carried out<br>with the help of this software. | Α | LIB MAN Software   |
| 63 | e-Lessons & e-<br>Resources/ e-Journals                     | Various Journals and Resources<br>are subscribed and available<br>online   | ۸ | Need to subscribe more journals.   |
| 64 | Usage of Internet by students in the Library                | Library has separate computer<br>section around 20 computers are<br>available with internet<br>connectivity for students for<br>accessing online journals and e-<br>books.   | A | Available  |
| 65 | Name of SWAYAM<br>Coordinator & Mob.<br>No                  | Dr.R.S.Pawade,8698559938   |   |  |
| 66 | Status of SWAYAM<br>facilities functioning                  | University is recognized as an<br>ACTIVE Local Chapter.<br>EDUSAT hall is used.  | ۸ |  |
| 67 | Whether SWAYAM<br>schedule is circulated to<br>the students | It is circulated by<br>Dr. R. S. Pawade and<br>Dr. S. L. Nalbalwar   | Α |  |

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| 68  | Maintenance of<br>SWAYAM Viewers'<br>Register                   | Maintained at Dept Level by<br>concerned coordinator, around<br>120 students had attained Fluid<br>Mechanics and Heat Transfer<br>NPTEL online lectures. | Α |  |  |
|-----|---|--|---|--|--|
| VII | Student Support Activit   | ies  |   |  |  |
| 69  | Name of the<br>Physical/Sports<br>Director & Mob.No             | Dr. Ganesh Warkhade,   |   |  |  |
| 70  | Record of Physical<br>Education/Sports<br>Department            | Record is maintained at university level   | Α | Need to improve  |  |
| 71  | Records of events conducted                                     | Online   | Α | Record is maintained at university level   |  |
| 72  | Records of significant<br>achievements in Sports<br>& Games     |  | ۸ | Could not be conducted due to pandemic   |  |
| 73  | Record of Cultural<br>programmes<br>conducted                   | -  | ۸ | Could not be conducted due to pandemic   |  |
| 74  | Record of any other<br>extra-curricular<br>activities conducted | Dept students' Participation<br>Record maintained.   | Α | Record is maintained at university level,<br>However extra-curricular activities can be<br>increase by establishing entrepreneurship,<br>robotics, aero-vehicles cells |  |
|     |   |  |   |  |  |

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

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

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| 89   | Cleanliness  | Maintained at University Level by<br>Estate section                | A | University workers are appointed for the purpose   |
|------|--|--|---|--|
| 90   | Health Care Facility   | University has its own primary<br>health care centre               | A | First Aid Kit is available with department   |
| 91   | Canteen  | Canteen is available to students<br>and faculties.                 | A | Available  |
| IX-0 | GOVERNANCE AND   | LEADERSHIP   |   |  |
| 92   | Management<br>Committee Register   | Records of various meetings are maintained by Registrar Office.    | Α | Records of various meetings are maintained by<br>HOD office.   |
| 93   | Functioning of<br>Committees in<br>Administration<br>(Minutes of meetings) | In Place Records are maintained<br>by the office of the Registrar. | А | Various committees are available at<br>department level with participation of faculty,<br>parents and teacher. |
| 94   | Awards/Achievements  |  |   |  |

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

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| 100  | Department Activity<br>Register & Hard Copy<br>of AQAR of previous<br>year (should be<br>available with the<br>Principal) | Available                      | A  | Annual Report are maintained and submitted<br>by department to VC office. |
|------|---|--------------------------------|--|---|
|      |   |                                | Signatures of Academic<br>Advisors<br>Dr. B. S. Gawali<br>Professor<br>Dept of Mechanical<br>Engineering<br>WCE Sangali<br>Dr. Debdatta Ratna<br>(Scientist F)<br>HoD<br>Polymer Science &<br>Technology<br>Naval Materials Research<br>Laboratory<br>DRDO, Ambernath (East) |   |
|      | Signatu   | re of the HoD                  |  |   |
| / to | ote the Formar is to be fi<br>the Academic Aucht Lean   | lled by the HoLD and submitted |  |   |

| -    |   |  |  |                   |  |  |  |  |  |  |  |
|------|---|--|--|-------------------|--|--|--|--|--|--|--|
|      | Dr. BabasahebAmbee  |  |  |                   |  |  |  |  |  |  |  |
|      | Academic Audit of Department  |  |  |                   |  |  |  |  |  |  |  |
| -    | Format for submission of  |  |  |                   |  |  |  |  |  |  |  |
|      | Name of the University Department:-Mechanical EngineeringPeriod of Audit: 2020 – 2021                     |  |  |                   |  |  |  |  |  |  |  |
| 1-De | partment Profile           Name of the University Department, Website, email and Ph.No.                   |  | hanical Engineering,www.<br>tu.ac.in, 9422472997                                   | dbatu.ac.in,      |  |  |  |  |  |  |  |
| 2    | Name of the HoD, email & Mob.No   | Dr. Neeraj Agrawal                                       | , neerajagrawal@dbatu.ac   | e.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 accreditated   |  |                   |  |  |  |  |  |  |  |
| 8    | NAAC Grade with Cycle, Accredited Year & CGPA<br>(Status of preparation if not Accredited)                | Date- EC(SC)_05_/  | 2015,2.35 NAAC Executiv<br>A&A _083 dated 3-3-2015-<br>ar Technological University | Dr.               |  |  |  |  |  |  |  |
| 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<br>Working: 12                           | Contract<br>FacultyWorking:05  | Visiting Faculty: |  |  |  |  |  |  |  |

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

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

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

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

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

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

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

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| <b>IV-LEARNING</b> | RESOURCES |
|--------------------|-----------|
|--------------------|-----------|

|   | LEARNING RESOURCE  | 55 |  |  |
|---|--|----|--|--|
| 1 | Name of the Librarian<br>&Mob.No                             |    | S.P.Vaidya,94233382280   |  |
| 2 | Access timings of the<br>Library                             | A  | 9.30 Am and 5.30 PM. on<br>working days. The library hours<br>are extended during the time of<br>final examinations.   |  |
| 3 | Circulation of Books<br>among Students                       | В  | LIBMAN (Library Software) is<br>used for circulation transaction.<br>Library also runs book bank<br>scheme sponsored by the Govt.<br>of Maharashtra.<br>http://dbatulibrary/opac or<br>http://172.16.5.238/opac)<br>online public access catalogue is<br>used. |  |
| 4 | Availability of Previous<br>years Question papers            | A  | Last 3 years question papers are<br>available with course files for<br>each course is prepared by every<br>faculty members.  |  |
| 5 | Availability of model<br>answers of previous<br>examinations | A  | Last 3 years question papers and<br>model answers are available with<br>course files for each course is<br>prepared by every faculty<br>members.   |  |
| 6 | Record of Visitors   | A  | Maintained by University Library<br>The library is having open   |  |

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

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

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

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|----|--|---|--|---|
|    | of Meeting/Proof of<br>submission of AQAR<br>to NAAC/Activity<br>register etc) |   |  |   |
| 14 | Record of Support by<br>Alumni Association                                     | А | Alumni Association registration is in progress.  |   |
| 15 | Record of Grievance<br>Redressal Cell / Anti<br>Ragging cell                   | в | Record of Grievance Redressal<br>Cell and Women's Grievance<br>Redressal Committee is<br>maintained at University level. |   |
| 10 | Record of Anti<br>Ragging cell   | A | Available at University Level  |   |
| VI | III-Basic Amenities  |   |  |   |
| 1  | Maintenance of<br>drinking water   | А | Some water coolers and filters are available   |   |
| 2  | Maintenance of sanitation  | С | Maintained   |   |
| 3  | Rest room for women<br>students  | В | Available at University level on the ground floor  |   |
| 4  | Greenery   | А | Maintained at University Level<br>by Estate section  |   |

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| 5   | Cleanliness   | А      | Maintained at University Level<br>by Estate section   |  |
|-----|---|--------|---|--|
| 6   | Health Care Facility  | А      | University has its own Primary<br>Health Care Centre  |  |
| 7   | Canteen   | А      | Canteen is available to students and faculties.   |  |
| IX- | GOVERNANCE AND  | LEADER |   |  |
| 1   | Management<br>Committee Register  | А      | Records of various meetings are<br>maintained by Department<br>office.  |  |
| 2   | Functioning of<br>Committees in<br>Administration (<br>Minutes of meetings) | A      | Minutes of BoS and Advisory<br>Committee is maintained.   |  |
| 3   | Awards/Achievements   | Α      | GATE - 06 students; For the<br>Online course of Refrigeration<br>and Air-Conditioning from<br><b>NPTEL</b> , three students<br>qualified from the course.<br>Mr. Sameer Ghanavat secured a<br>spot among top 5% at the<br>national level of the online<br>course.<br>GATE - |  |
| 4   | Faculty development initiatives if any                                      | А      | Dr. G. S. Warkhade awarded<br>PhD under QIP by NIT<br>Warangal.   |  |

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| <u>x</u> - | IT INITIATIVES                                      |   |  |  |
|------------|---|---|--|--|
| 1          | E-Class rooms (<br>Number & Usage)                  | A | 01 Smart Classroom (LH 206) is<br>functioning.   |  |
| 2          | Internet Centre                                     | A | Leased Line from BSNL of<br>1Gbps Accessed through<br>centralized facility (2 Servers ) at<br>University level |  |
| 3          | Computer labs (No.<br>of labs & working<br>systems) | A | 01 Labs (Working PCs)  |  |
| XI-E       | Best Practices                                      |   |  |  |

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

|                      | 2. Dr. Debdatta Ratna<br>(Scientist F)<br>HoD<br>Polymer Science & Technology<br>Naval Materials Research<br>Laboratory<br>DRDO, Ambernath (East) |   |
|----------------------|---|---|
| Signature of the HoD |   | Note, the Format is to be filled by the HoD and submitted to the Academic Audit Team. |

## Dr. Babasaheb Ambedkar Technological University, Lonere

## 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<br>* | Impression   |
|------|--|------------|--|
| 1    | Conduct of Classes   | А          | Well Conducted ONLINE/Offline, co-teaching shall be encouraged.  |
| 2    | Co-Curricular<br>Activities & Extra-<br>Curricular<br>Activities | А          | Good participation of students in Co-Curricular and extra-curricular<br>activities.<br>Expert talks/Industrial visits through online & offline mode shall be<br>enhanced.  |
| 3    | College Activity<br>Register                                     | A ·        | Maintained records properly  |
| 4    | Departmental<br>Activity Registers                               | А          | Well maintained records of different activities.   |
| 5    | Discipline in the campus   | А          | Good discipline.   |
| 6    | IQAC   | А          | IQAC needs to ensure action taken report by stakeholders for continuous quality improvement & assurance.   |
| 7    | Placement  | С          | Good efforts during and after pandemic were taken to enhance the placement.  |
| 8    | Departmental<br>research   | A          | <ul> <li>placement.</li> <li>Good attempts for research. Research policy may include</li> <li>1. Project based financial support</li> <li>2. Support for research setup, product development, technology transfer and hand holding for the entrepreneur.</li> <li>3. Best researcher award may be constituted.</li> <li>4. Industrial collaboration for need based research</li> <li>5. Attempt to install industrial chair and develop industry sponsored lab.</li> </ul> |
| 9    | Career Guidance<br>Cell  | В          | Working appropriately.   |
| 10   | SWAYAM   | А          | Appropriately available.   |
| 1    | 1 Library  | A          | Department library is maintained with good number of volume.   |
| 1    | 2 Research &<br>Laboratories                                     | А          | Good state-of-art, needs to provide more facilities for new technologies   |
| 1    | 3 Games & Sports   | А          | In place.  |

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

\* <u>A(Good)/</u>B( Satisfactory)/C (poor)

2022

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

>

Dr Ramakant Shrivastava Professor and Head Mech Engg COE Karad MS

9/11/22 Dr. R. M. Tayade

**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<br>met | %<br>achieved |
|-----|--|----------------|---------------|
| 1   | LEARNING OBJECTIVES AND RESOURCES  |                |               |
| 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            |
| 2.  | CURRICULUM AND CO-CURRICULUM   |                |               |
| 2.1 | The faculty member collaborated with other faculty members<br>for effective design, sequence of courses and delivery of<br>course for improvements and documented these efforts<br>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<br>curriculum and co-curriculum comparing those with the best<br>practices elsewhere or in best institutes                                    | Met            | 85            |
| 3   | TEACHING AND LEARNING PROCESSES  |                |               |
| 3.1 | The faculty member analyzed his/her own methods for<br>improving teaching and learning throughout the program and<br>practiced them.   | Met            | 85            |
| 3.2 | The faculty member developed and promoted effective<br>instructional methods, other than lecturing, so that student<br>achieve the learning objectives.  | Met            | 85            |
| 3.3 | The faculty member developed materials for achieving student mastery of learning objectives.   | Met            | 85            |

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

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| 4.2 | The faculty member developed techniques, other than written<br>test, for the student learning assessments to improve the  | Met      | 90  |
|-----|---|----------|-----|
|     | program.  |          |     |
| 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                          | Met      | 90  |
| 4.6 | effectiveness.<br>The Student has put in his/her own efforts in the learning<br>process from resources outside the Institute.   | Met      | 90  |
| 4.7 | The students are challenged enough to use their knowledge creatively  | Met      | 75  |
| 5.0 | QUALITY ASSURANCE   |          |     |
| 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<br>improvements in the program a top priority  | Met      | 80  |
| 5.4 | The performance of students in Internal Assessment and<br>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<br>industries/ Society's need in delivery of appropriate course<br>content to the students                             | Met      | 85  |
| 6   | OVERALL ASSESSMENT  |          |     |
| 6.1 | The Academic Audit process was Faculty driven.  | Met      | 100 |
| 6.2 | The Academic Audit process (self-study and visit) included descriptions of the program's quality processes including all five focal areas.  | Met      | 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<br>in completing the academic audit of this program.  | Met      | 100 |
| 6.5 | The Academic Audit process included involvement of and<br>inputs from stakeholder groups identified by the program's<br>faculty members   | Met      | 95  |
| 7   | FOLLOW-UP OF PREVIOUS AUDIT   |          |     |
| 7.1 | An action plan was developed as a result of the previous<br>Academic Audit  | Met      | 100 |
| 7.2 | There is documented evidence that recommendations made<br>by the previous Academic Audit Team have been considered<br>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<br>implemented and tracked the progress of and use of results<br>from improvement initiatives cited by the faculty its self-<br>study. | Met     | 95  |
|-----|---|---------|-----|
| 8   | SUPPORT   |         | 100 |
| 8.1 | The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the  | Met     | 100 |
| 8.2 | context of overall college resources.<br>The program's operating budget is consistent with the needs  | Met     | 85  |
| 8.2 | of the program.   |         |     |
| 8.3 | The program has a history of enrolment rates sufficient to  | Met     | 100 |
|     | 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     | 70  |
| 8.5 | The program has a history of placement rate sufficient to   |         |     |
|     | sustain high quality of program outcome.  | Not Met |     |
| 8.6 | The Program has a history of generating support from industries and alumni to sustain itself.   |         |     |

Signatures of Academic Advisors

11/22 Prof. Dr. D. N. Raut

Professor, Dept of Production Engg, VJTI, Matunga, Mumbai

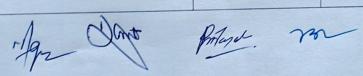
Dr Ramakant Shrivastava

Dr Ramakant Shrivasta Professor and Head Mech Engg COE Karad MS

mand Dr. R. M. Tayade

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

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|--|--|---|--|--|--|
| Dr. Babasaheb Ambee  | ikar Technological U   | niversity   |  |  |  |
| Academic A   | udit of Department   |   |  |  |  |
| Format for submission of Acad  | emic Advisors (Audit   | or) Report (AAR)  |  |  |  |
| fish- University Department:-Mechanical Engined  | ring Period of Audit:  | : 2021 - 2022   |  |  |  |
| e of the University Department Preclament Sig  |  |   | 11   |  |  |
| Name of the University Department, Website, email<br>and Ph.No.  | neerajagrawal@dbatu  | 1.ac.in, 9422472997   |  |  |  |
| Name of the HoD, email & Mob.No  | Dr. Neeraj Agrawal,  | neerajagrawal@dbatu.ac.   | in, 9422472997   |  |  |
| Name of the Vice-Principal, if any, email & Mob. No.   | NA   |   |  |  |  |
| 4 Name of the IQAC Coordinator, email & Mob. No. Dr. S. L. Nalbalwar@dbatu.ac.in,87938                       |  |   |  |  |  |
| Year of Establishment & own land if any  | 1992, Yes  |   |  |  |  |
| NBA accreditation of courses   | Not accredited   |   | C ittee No. 8  |  |  |
| NAAC Grade with Cycle, Accredited Year & CGPA<br>(Status of preparation if not Accredited)                   | B Grade, 1st Cycle,2015,2.35 NAAC Executive Committee No. &<br>Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb<br>Ambedkar Technological University, Lonere-Maharashtra   |   |  |  |  |
| UGC Recognition (2F & 12 B)  | Yes  |   |  |  |  |
| Department Working Hours( if shift system mention details<br>of both shifts & give reasons for shift system) |  |   |  |  |  |
| No. of Posts Sanctioned: 10  | Regular Faculty<br>Working: 12   | Contract<br>FacultyWorking:05   | Visiting Faculty:Nil   |  |  |
|  | Academic A<br>Format for submission of Acad<br>e of the University Department:-Mechanical Engineer<br>artment Profile<br>Name of the University Department, Website, email<br>and Ph.No.<br>Name of the HoD, email &Mob.No<br>Name of the Vice-Principal, if any, email & Mob. No.<br>Name of the IQAC Coordinator, email & Mob. No.<br>Year of the IQAC Coordinator, email & Mob. No.<br>Year of Establishment & own land if any<br>NBA accreditation of courses<br>NAAC Grade with Cycle, Accredited Year & CGPA<br>(Status of preparation if not Accredited)<br>UGC Recognition (2F & 12 B)<br>Department Working Hours( if shift system mention details<br>of both shifts & give reasons for shift system) | Academic Audit of DepartmentFormat for submission of Academic Advisors (AuditFormat for submission of Academic Advisors (Audite of the University Department:-Mechanical Engineering Period of AuditName of the University Department, Website, emailand Ph.No.Department of MechanName of the HoD, email &Mob.NoDr. Neeraj Agrawal,Name of the Vice-Principal, if any, email & Mob. No.NAName of the IQAC Coordinator, email & Mob. No.Dr. S. L. Nalbalwar,Year of Establishment & own land if any1992, YesNBA accreditation of coursesNot accreditedNAAC Grade with Cycle, Accredited Year & CGPA<br>(Status of preparation if not Accredited)B Grade, 1st Cycle,2<br>Date- EC(SC)_05_A<br>Ambedkar TechnoloUGC Recognition (2F & 12 B)YesDepartment Working Hours( if shift system mention details<br>of both shifts & give reasons for shift system)8.00 A.M. TO 6.00 | Format for submission of Academic Advisors (Auditor) Report (AAR)         e of the University Department:-Mechanical Engineering Period of Audit: 2021 – 2022         partment Profile         Name of the University Department, Website, email<br>and Ph.No.       Department of Mechanical Engineering, www.encerajagrawal@dbatu.ac.in, 9422472997         Name of the HoD, email &Mob.No       Dr. Neeraj Agrawal, neerajagrawal@dbatu.ac.in, 9422472997         Name of the Vice-Principal, if any, email & Mob. No.       NA         Name of the IQAC Coordinator, email & Mob. No.       Dr. S. L. Nalbalwar, slnalbalwar@dbatu.ac.in,         Year of Establishment & own land if any       1992, Yes         NBA accreditation of courses       Not accredited         NAAC Grade with Cycle, Accredited Year & CGPA<br>(Status of preparation if not Accredited)       B Grade, 1st Cycle,2015,2.35 NAAC Executive.<br>Date = EC(SC)_05_A&A_083 dated 3-3-2015-<br>Ambedkar Technological University, Lonere-N         UGC Recognition (2F & 12 B)       Yes         Department Working Hours( if shift system mention details<br>of both shifts & give reasons for shift system)       8.00 A.M. TO 6.00 P.M. |  |  |



| Ann<br>Plar<br>Dep<br>Cur<br>Dep | nplementation of<br>nnual Departmental                                | Grade | Actual Status  |              |
|----------------------------------|---|-------|--|--------------|
| Ann<br>Plar<br>Dep<br>Cur<br>Dep | nnual Departmental  |       |  |              |
| Cur                              | 211   | А     | Annual department plan was prepared well before start of academic Year   | Good         |
|                                  | epartmental Annual<br>urricular Plans                                 | А     | Curricular plan was prepared.  | Good         |
|                                  | epartment Activity<br>egister for the<br>cademic Year                 | В     | Department has maintained Registers for Departmental<br>meetings and BoS meetings. All Minutes of meetings have been<br>recorded.                      | Satisfactory |
| De                               | epartmental Activity<br>egisters                                      | В     | Department has maintained Registers for Departmental<br>meetings and BoS meetings. All Minutes of meetings have been<br>recorded.                      | Satisfactory |
| (D)<br>con                       | idd-on Courses<br>Department-wise)<br>ompleted during<br>revious year | В     | Added in syllabi   | Satisfactory |
| (D<br>du                         | add-on Courses<br>Department-wise)<br>luring current academic<br>ear  | В     | Implemented Product Design Engineering, NAASCOM  | Satisfactory |
| , Co                             | Coverage of Syllabus<br>Average Percentage)                           | A     | Approximately 80% (Student Feedback on Syllabus Coverage is<br>available). Attendance online record is also available on the<br>University web-portal. | Excellent    |
|                                  | Feaching of Humanities<br>& Foundation Courses                        | A     | Implemented as per guidelines by UGC/AICTE at First Year<br>Engineering  | Good         |
| 9 Er                             | Feaching of<br>Environmental Science<br>and Ethics                    | A     | Implemented as per guidelines by UGC/AICTE at First Year<br>Engineering  | Good         |
| 10 C                             | No. of New UG & PG<br>Courses introduced this<br>year:                | С     | Nil<br>As Alas Prologel 72   | -            |

| 11    | Maintenance of Student<br>Attendance Registers                | А      | Maintained. For each semester e-attendance record is available.  | Excellent                |  |  |  |  |
|-------|---|--------|--|--------------------------|--|--|--|--|
| 12    | Feedback forms on<br>Curriculum from<br>students              | А      | Feedback forms are filled by students at the end of each semester  | Needs to update the form |  |  |  |  |
| 111-7 | III-TEACHING, LEARNING & EVALUATION                           |        |  |                          |  |  |  |  |
| 1     | Teaching Diaries &<br>Teaching Plans in<br>Prescribed Formats | А      | Teaching Plan and Course files are maintained by individual faculty members.   | Very Good                |  |  |  |  |
| 2     | Co-Curricular Activities<br>( Department level)               | Α      | Fraternity of Information Technology (Students Association)<br>activities and Cynosure tech fest. Participation record is<br>available.  | Good                     |  |  |  |  |
| 3     | Academic Competitions<br>(University Level &<br>Above)        | А      | Fraternity of Information Technology (Students Association)<br>activities and Cynosure tech fest. Participation record is<br>available.  | Very Good                |  |  |  |  |
| 4     | Conduct of Internal<br>Examinations                           | А      | Continuous assessment is carried out by the individual faculty<br>members. Mid test is conducted by the examination<br>department. Record of Continuous assessment is available. | Satisfactory             |  |  |  |  |
| 5     | Subject wise result<br>analysis                               | A      | Record is available.   | Good                     |  |  |  |  |
| 6     | Teacher wise result<br>analysis                               | A      | Record is available.   | Good                     |  |  |  |  |
| 7     | Remedial Classes  | В      | *Activity not planned  | -                        |  |  |  |  |
| 8     | Record of Evaluation of<br>Teachers by Students               | Α      | Feedback on Teachers by the students is taken and analysis is carried out.   | Good                     |  |  |  |  |
| IV-   | RESEARCH AND CON  | SULTAN | ICY  |                          |  |  |  |  |
| 1     | Is the Department a<br>Recognized Research<br>Centre          | А      | Yes, Department is a Recognized Research Centre from academic Year 2015.   | Excellent                |  |  |  |  |
| 2     | No. of Research<br>Guides in the                              | А      | 11   | Excellent                |  |  |  |  |

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

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

| 15  | Consumer Club Activities                                     | Λ | Stationary and educational materials are available at campus   |  |
|-----|--|---|--|--|
| 16  | Innovation Activity club                                     | с | *Activity not planned  |  |
| 17  | Technology Development<br>and Transfer Cell<br>Activities    |   | *Activity not planned  |  |
| 18  | Any other Club   | А | Mechanical Engineering Students Association  |  |
| IV- | LEARNING RESOURCES   | 5 |  |  |
| 1   | Name of the Librarian<br>&Mob.No                             |   | S.P.Vaidya,/ Mr. Ajay Palkar 9028647912, 94233382280   |  |
| 2   | Access timings of the<br>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<br>among Students                       | A | LIBMAN (Library Software) is used for circulation transaction.<br>Library also runs book bank scheme sponsored by the Govt. of<br>Maharashtra. http://dbatulibrary/opac or<br>http://172.16.5.238/opac) online public access catalogue is<br>used. |  |
| 4   | Availability of Previous<br>years Question papers            | A | Last 3 years question papers are available with course files for<br>each course is prepared by every faculty members.  |  |
| 5   | Availability of model<br>answers of previous<br>examinations | A | Last 3 years question papers and model answers are available<br>with course files for each course is prepared by every faculty<br>members.   |  |
| 6   | Record of Visitors   | A | Maintained by University Library .The library is having open access.   |  |
| 7   | Status of Library<br>Automation                              | A | The library is partially computerized with the help of LIBMAN<br>(Library Software). The circulation transaction, Barcode<br>generation, No dues certificates, Reminder etc. work is carried<br>out with the help of this software.                |  |
| 8   | e-Lessons & e-Resources/<br>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<br>are available with internet connectivity for students for   |  |

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

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|---|----|---|--|--|
| 8 |    | lecord of Student                         | A  | Students placed in this 2021-22 in campus interview - 04.  |
| 0 |    | rained and placed                         |  |  |
|   |    | Name of Career                            |  | D NI N 10400470007   |
| 9 |    | Guidance Cell                             |  | Dr. N. Agrawal 9422472997  |
|   | -  | Coordinator & Mob.No                      |  |  |
| 1 |    | Record of activities                      | Α  | Few workshops on start-ups conducted. Record is available.   |
| - |    | Career Guidance                           |  |  |
|   |    | Departmental Review                       |  | Dr. V.G. Sargade, 9730341788   |
| 1 |    | Committee (DRC)                           |  | D1. V.G. Saigade, 77505 11700  |
|   |    | Coordinator & Mob.                        |  |  |
| - | -  | No.                                       |  |  |
|   | 12 | Implementation of<br>DRC Action Plan      | А  | In place   |
| H |    | IQAC activities &                         |  |  |
|   |    | maintenance of records                    |  |  |
|   |    | , (Action Plan/Minutes                    |  | IQAC Minutes of Meeting are available. Proof of submission   |
|   | 13 | of Meeting/Proof of                       | Α  | of AQAR is maintained.   |
|   |    | submission of AQAR                        |  |  |
|   |    | to NAAC/Activity                          |  |  |
|   | 1  | register etc)                             |  |  |
|   | 14 | Record of Support by                      | A  | Alumni Association registration is done.   |
| + | -  | Alumni Association<br>Record of Grievance |  | Record of Grievance Redressal Cell and Women's Grievance   |
|   | 15 | Redressal Cell / Anti                     | A  | Redressal Committee is maintained at University level.   |
|   | 15 | Ragging cell                              |  | Rediessai Committee a ma   |
| - | -  |   |  | and the state of t |
|   | 16 | Record of Anti                            | А  | Available at University Level  |
|   | 10 | Ragging cell                              |  |  |
|   | VI | II-BASIC AMENITII                         | ES                                       |  |
|   |    |   |  | luce and filters are available   |
|   | 1  | Maintenance of                            | В  | Sufficient water coolers and filters are available   |
|   | 1  | drinking water                            |  |  |
|   |    | Maintenance of                            | В  | Maintained   |
|   | 2  | sanitation                                |  | the second floor   |
|   | 1  | Rest room for women                       | A  | Available at University level on the ground floor  |
|   | 3  | students                                  |  | A D M K M  |
|   |    |   | domicuos                                 | r Al Alant Man 7at   |
|   | *: | Prepared for current aca                  | demic yea                                |  |
|   |    |   |  |  |
|   |    |   |  |  |

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

|   | practices by the  |     | electives is attached (at department level)   |  |
|---|---|-----|---|--|
|   | Department  |     | 2) 18 Knowledge area course mapping   |  |
| 2 | Department Activity<br>Register & Hard Copy<br>of AQAR of previous<br>year<br>(should be available<br>with the Principal) | A   | Available   |  |
| 3 | Over All Impression<br>on the College   | А   | Very Good   |  |
|   |   |     | Signatures of Academic Advisors   |  |
|   |   |     | Dr. D. N. Haur 4/2022<br>Professor<br>Dept of Production Engineering<br>VJTI, Mumbai<br>Dr. R. M. Tayade<br>Associate Professor,<br>Dept of Mechanical Engineering,<br>VJTI, Mumbai | Dr Ramakant Shrivastava<br>Professor and Head<br>Mech Engg<br>COE Karad MS |
|   | Signature of the H  | IoD | Dr. Neeraj Agrawal,<br>Professor,<br>Department of Mechanical Engineering   |  |

|    | Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad                                   |   |   |                  |  |  |  |  |  |
|----|---|---|---|------------------|--|--|--|--|--|
| -  |   | Dr. Babasaheb Ambedkar Tec  | udit of Department  | y, Donere, rung- |  |  |  |  |  |
| -  |   |   | Department Data)  |                  |  |  |  |  |  |
| -  | Name of the University Department:- Mechanical Engineering Period of Audit: July 2021 – June 2022 |   |   |                  |  |  |  |  |  |
| N  |   |   |   |                  |  |  |  |  |  |
| 1- | 1   | artment Profile<br>Name of the University Department, Website, email<br>and Ph.No.                        | neerajagrawal@dbat  |                  |  |  |  |  |  |
| -  | 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.  |   |                  |  |  |  |  |  |
|    | 4   | Name of the IQAC Coordinator, email & Mob. No.  | Dr. S. L. Nalbalwar, slnalbalwar@dbatu.ac.in ,8793814621  |                  |  |  |  |  |  |
| F  | 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<br>(Status of preparation if not Accredited)                | B Grade, 1st Cycle, 2015,2.35 NAAC Executive Committee No. &<br>Date- EC(SC)_05_A&A_083 dated 3-3-2015-Dr. Babasaheb<br>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) |   |                  |  |  |  |  |  |
| -  | 11  | No. of Posts Sanctioned: 19   | Regular Faculty<br>Working: 12Contract<br>FacultyWorking:05Adjunct Faculty:-<br>NIL   |                  |  |  |  |  |  |

Age no phil of

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

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|    |   | III-TEACHING, LEARNING &   | EVALUATION |   |
|----|---|--|------------|---|
| 23 | Teaching Diaries & Teaching<br>Plans in Prescribed Formats            | Teaching Plan and Course files are<br>maintained by individual faculty members.  | А          | Available   |
| 24 | Co-Curricular Activities (<br>Department level)                       | Fraternity of Information Technology<br>(Students Association) activities and<br>ISHARE BAHA. Participation record is<br>available.  | А          | SAE, ISHRAE, etc. Online Expert<br>Lecture                  |
| 25 | Academic Competitions (<br>University Level & Above)                  | Fraternity of Information Technology<br>(Students Association) activities.<br>Participation record is available.   | Α          | SAE, ISHRAE, etc.   |
| 26 | Conduct of Internal<br>Examinations-Unit, Half-Yearly<br>and Prefinal | Continuous assessment is carried out by<br>the individual faculty members. Mid test is<br>conducted by the examination department.<br>Record of Continuous assessment is<br>available. | А          | Routinely done  |
| 27 | Subject wise result analysis  | Record is available.   | А          | Action taken for low result shall be added                  |
| 28 | Teacher wise result analysis  | Record is available.   | А          | ATR may be added  |
| 29 | Remedial Classes  | Nil, However, students are free to<br>approach individual teacher to solve the<br>doubt.   | С          | Considering Lock down on line classes<br>might be arranged. |
| 30 | Record of Evaluation of<br>Teachers by Students                       | Feedback on Teachers by the students is taken and analysis is carried out.   | A          | Well Implemented  |
| -  |   | IV-RESEARCH AND CONS   | ULTANCY    |   |
| 31 | Is the Department a<br>Recognized Research Centre                     | Yes, Department is a Recognized Research<br>Centre.  | А          |   |
| 32 | No. of Research Guides in the   | 1,1  |            | 7 Professors and 4 Associate professors 1                   |
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|     | Department  |  | Α | Assistant Professor   |
|-----|---|--|---|---|
| 33  | No. of Research Scholars<br>working for Masters & Ph. D                                     | Ph. D – 21<br>Masters – 03   | А |   |
| 34  | Major/Minor/Other Research<br>Projects  | PG Projects –03<br>UG Projects/Internships –80<br>Industry Projects – 22 UG project    | A |   |
| 35  | Research Papers Published in<br>previous academic year<br>(International/ National )        | International Conference - 8<br>International Journal - 13<br>National Conferences – 1 | А |   |
| 36  | Papers Presented in previous<br>academic year(International/<br>National/ State )           | Total citations = 1475<br>i10 index = 92<br>h index = 68                               | А |   |
| 37  | Books Published in previous<br>Academic year (Single Author/<br>Co Author)                  | Dr. D. B. Waghmare published book in<br>Marathi Language                               | А | 5   |
| 38  | Seminars/Workshops/<br>Training Programme<br>Conducted (International/<br>National/ State ) | Workshop on FEAST Software   | А |   |
| 39  | Record of Consultancy in<br>previous academic year  | No   | В | Need to be enhanced   |
| 40  | Record of MoUs in previous<br>academic year   | 3  | В | Need to be enhanced   |
| VI- | EXTENSION ACTIVITIES  |  |   |   |
| 41  | Record of Subject/Department<br>Related Extension Activities                                | Record of activities is maintained by the department                                   | A | NSS/Training /etc.  |
| 42  | Name of the NSS PO & Mobile<br>No.  | H. N. Warahtkar, 9403316374  |   |   |
| 43  | NSS Attendance register   | Maintained at University Level   | A | Actively participants from Mechanical<br>department (36 Students) |

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

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

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

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

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

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