

Annual Quality Assurance Report

(AQAR) 2017-18

Submitted by
The IQAC of



SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING

To

**National Assessment and
Accreditation Council, Bangalore**

August 2018

The Annual Quality Assurance Report (AQAR) of the IQAC
(For Affiliated/Constituent Colleges)

Part – A

Data of the Institution

1. Name of the Institution: Arvind Gavali College of Engineering, Satara

- Name of the Head of the institution : Dr. Viddhulata Mohite
- Designation: Professor & Principal
- Does the institution function from own campus: Yes
- Phone no./Alternate phone no.: 02162200100
- Mobile no.: +918356897430/+8482875175
- Registered e-mail: agcenggsatara@gmail.com
- Alternate e-mail : principal@agce.sets.edu.in
- Address : 247, Varye, Satara
- City/Town : Satara
- State/UT : Maharashtra
- Pin Code : 415015

2. Institutional status:

- Affiliated / Constituent: Affiliated
- Type of Institution: Co-education
- Location : Rural/Semi-urban/Urban: Rural
- Financial Status: Self financing
- Name of the Affiliating University: Dr. Babasaheb Ambedkar Technological University, Lonere and Shivaji University, Kolhapur
- Name of the IQAC Co-ordinator : Mr. Vishal Hingmire
- Phone no. : +918482875175

Alternate phone no.

- Mobile: +919665571703

- IQAC e-mail address: vs.hingmire@gmail.com
- Alternate Email address: agcenggsatara@gmail.com

3. Website address: www.agce.sets.edu.in

Web-link of the AQAR: (Previous Academic Year):

<http://www.agce.sets.edu.in/AQAR.php>

4. Whether Academic Calendar prepared during the year?

Yes. It is uploaded in the Institutional website: Yes

Weblink: <http://www.agce.sets.edu.in/AcademicC.php>

5. Accreditation Details:

| Cycle | Grade | CGPA | Year of Accreditation | Validity Period |
|-----------------|-------|------|-----------------------|--------------------|
| 1 st | B+ | 2.55 | 2016 | from:2016 to: 2021 |

6. Date of Establishment of IQAC: 14/07/2012

7. Internal Quality Assurance System

| 7.1 Quality initiatives by IQAC during the year for promoting quality culture | | |
|--|--|--------------------------------------|
| Item /Title of the quality initiative by IQAC | Date & duration | Number of participants/beneficiaries |
| Tech Fest-Regional Science Exhibition | 28 th and 29 th December 2017 | 550 |
| Prayog- State Level Project Exhibition | 9 th March 2018 | 282 |
| Outcome Based Education and NBA Accreditation (OBENBA)- Faculty Development Program | 1 st to 5 th November 2017 | 72 |
| Mathematical Aptitude and Soft Skill Development -Employability Enhancement Program | 20 th February 2018 to 1 st March 2018 | 193 |
| College to Corporate Program- Technical Skill in association with IIT Bombay through remote centre | 20 th February to 18 th March 2018 | 46 |
| Soft Skill and workplace communication association with IIT Bombay through remote centre. | 22 nd January to 9 th March 2018 | 80 |

8. Provide the list of funds by Central/ State Government-

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

| Institution/ Department/Faculty | Scheme | Funding agency | Year of award with duration | Amount |
|------------------------------------|--------|-------------------|--------------------------------|--------|
| NIL | NIL | NIL | NIL | NIL |

9. Whether composition of IQAC as per latest NAAC guidelines: Yes

10. No. of IQAC meetings held during the year: 2

Minutes of Meeting uploaded on website <http://www.agce.sets.edu.in/iqacm.php>

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

If yes, mention the amount: Nil Year: Nil

12. Significant contributions made by IQAC during the current year (maximum five bullets)

- * To inculcate Project based learning in to students two activities conducted during year.
- * Two programs for students initiated through IIT remote centre
- * Faculty Development program on Outcome based education
- * Employability enhancement through student training

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

| Plan of Action | Achievements/Outcomes |
|--|---|
| 1. MOU With Premium Institute | <p>a. Institute this year have received permission for IIT remote centre. And two student development program conducted during year at this centre</p> <p>b. NPTEL Local chapter promote student to appear for online Courses</p> |
| 2. Industry institute Interaction | Industry institute interaction strengthen through MOU, which intern increases placement of students |
| 3. Create environment for project based learning | Science and project exhibition conducted at Institute, which got very good response. |

14. Whether the AQAR was placed before statutory body? Nil

Name of the Statutory body: Nil Date of meeting(s): Nil

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning? Nil Date: Nil

16. Whether institutional data submitted to AISHE: Yes

Year: 2017-18 Date of Submission: 30 September 2017

17. Does the Institution have Management Information System? - Yes

- Accounts and financial works (e.g. Tally) - Institute accountant used to keep record of all financial on license software Tally which includes fees of students, operational expenses, equipment, furniture, maintenance etc.
- Staff attendance biometric- Staff attendance record is maintain by biometric attendance.
- Library (Library Management Software by Biyani Technology) - This software is helpful to incorporate barcode system for books issue and return. It keeps the record of book issued and return. OPAC system allows students to search books available and put requisitions through Personal computer in the library
- MOODLE- It is open source platform develop for academic institution. It can be customize to keep the student record online like their Attendance, Test result etc. Also faculty can upload notes, e-learning resources like PPT, Video lectures which can be access by students online.

Part-B

CRITERION I – CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

As Institute is affiliated to BATU and Shivaji University, we follow the prescribed syllabus of the University for all UG programs and one PG program. Before commencement of new academic year we prepare Academic Calendar as per University guidelines. At the beginning of the semester we prepare objective driven and outcome based teaching plan.

All faculty members follow continuous evaluation documents which contain

- a) Program Educational Objectives, outcomes and its mapping
- b) Course Objectives, outcomes and its mapping with PO
- c) Lesson Plan and assessment tools
- d) Topic covered and number of lectures conducted
- e) Teaching methods
- f) Assignment questions and results of the unit tests
- g) Content beyond the syllabus keeping pace with industrial development
- h) Practical plan its implementation

As per the schedule in every semester performance of the student is assessed by means of Mid Semester test and End semester test.

For the weaker performing students, remedial classes are conducted for different subjects. Industrial visit are arranged to bridge the gap between theoretical knowledge and real life scenario. To make students involved in the teaching learning process, new and innovative teaching techniques in addition to the traditional lecture method are introduced. Guest lectures are conducted by inviting distinguished personalities from different Institutes and Industries. Each faculty member of the department is connected to Mentorship program. Each member of the teaching faculty is entrusted with the task of mentoring 20 students. They are responsible for academic and personal mentoring of these students. This is to strengthen the bonds of appreciation and affection that exists between teacher and students.

1.1.2 Certificate/ Diploma Courses introduced during the Academic year

| Name of the Certificate Course | Name of the Diploma Courses | Date of introduction and duration | focus on employability/ entrepreneurship | Skill development |
|----------------------------------|-----------------------------|-----------------------------------|--|-------------------|
| Domestic Data Entry operator | Nil | 19 Jan 2018 -6 Month | √ | √ |
| Junior software developer | Nil | 19 Jan 2018 -6 Month | √ | √ |
| Assistant Electrician | Nil | 19 Jan 2018 -6 Month | √ | √ |
| Machining and Quality Technician | Nil | 19 Jan 2018 -6 Month | √ | √ |
| Welding and Quality Technician | Nil | 19 Jan 2018 -6 Month | √ | √ |
| Field Technician | Nil | 19 Jan 2018 -6 Month | √ | √ |

| | | | | | |
|---|--|------------------------------------|--|-----------|-----------|
| - Computing and Peripherals | | | | | |
| Auto service technician | Nil | 19 Jan 2018 -6 Month | √ | √ | |
| 1.2 Academic Flexibility | | | | | |
| 1.2.1 New programmes/courses introduced during the Academic year | | | | | |
| Programme with Code | Date of Introduction | Course with Code | Date of Introduction | | |
| Mechanical -Heat Power Engineering (654569910) | 17 August 2017 | Nil | Nil | | |
| 1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the Academic year. | | | | | |
| Name of Programmes adopting CBCS | UG | PG | Date of implementation of CBCS / Elective Course System | UG | PG |
| Civil Engineering | √ | Nil | 2013-2014 | Nil | Nil |
| Mechanical Engineering | √ | Nil | 2013-2014 | Nil | Nil |
| Electrical Engineering | √ | Nil | 2013-2014 | Nil | Nil |
| Electronics and Telecommunication Engineering | √ | Nil | 2013-2014 | Nil | Nil |
| Computer science and Engineering | √ | Nil | 2013-2014 | Nil | Nil |
| Mechanical -Heat Power Engineering | Nil | √ | 2017-2018 | Nil | Nil |
| Already adopted (mention the year) | | | | | |
| 1.2.3 Students enrolled in Certificate/ Diploma Courses introduced during the year | | | | | |
| | Certificate | Diploma Courses | | | |
| No of Students | 191 | Nil | | | |
| 1.3 Curriculum Enrichment | | | | | |
| 1.3.1 Value-added courses imparting transferable and life skills offered during the year | | | | | |
| Value added courses | Date of introduction | Number of students enrolled | | | |
| 1.Technical Skill Courses(All) | 20 th Feb 2018 to 18 th March 2018 | 46 | | | |
| 2. Soft Skill Courses(All) | 22 nd Jan 2018 to 9 th March 2018 | 80 | | | |
| 1.3.2 Field Projects / Internships under taken during the year | | | | | |
| Project/Programme Title | No. of students enrolled for Field Projects / Internships | | | | |
| 1.Data Logger for Monitoring parameters of transformer oil filtering Machine | 3 | | | | |
| 2.Online Coupon Generation | 4 | | | | |
| 3.Virtual Dressing Room | 4 | | | | |

| | |
|--|---|
| 4.Online Exam System | 4 |
| 5.Social Media Monitoring | 4 |
| 6.Best Aspirant Selector | 4 |
| 7.Comparative study of Engine Performance and Emission Analysis by using "waste cooking oil" and Analysis of Response Parameters | 5 |
| 8.Increasing Performance and Analytical study of Cooling Tower | 5 |
| 9.To study the influence of Mexicana Biodiesel with Ethanol is additive in Diesel Engine | 5 |
| 10.Reduction of Fettleing cycle time of various castings | 5 |
| 11.Performance Study of Electrical Discharge Machine (EDM) Processes | 5 |
| 12.Design and Manufacturing of Shock Absorber Testing Machine | 5 |
| 13.Design and Manufacturing of Gear Tooth Chamfering Machine | 5 |
| 14.Design and Calculations for Progressive tool Mounting Bracket of Fuel tank | 5 |
| 15.To Reduce the De Gating Rejection of Exhaust Manifold in Foundry | 4 |
| 16.Comparative study of Engine Performance and Emission analysis by using "Chicken Fat Methyl Ester" | 5 |
| 17.Design and Manufacturing of Gear Tooth Chamfering Machine | 5 |
| 18.To study the impact of Diethyl ether blended with Biodiesel and Diesel fuel on IC Engine | 4 |
| Programme Title | No. of students enrolled for Internships |
| Electronics and Telecommunication Engineering | 30 |
| Mechanical Engineering | 46 |
| Civil Engineering | 38 |
| Computer science and Engineering | 20 |
| Electrical Engineering | 30 |
| | |

1.4 Feedback System

1.4.1 Whether structured feedback received from all the stakeholders.

| | | | | |
|-------------|-------------|--------------|-----------|------------|
| 1) Students | 2) Teachers | 3) Employers | 4) Alumni | 5) Parents |
| Yes | Yes | Yes | Yes | Yes |

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback is collected from all stakeholders. Every year institute organizes Alumni Meet in which feedback is collected to enrich the curriculum. At the mid and end of each semester, a feedback from every student is taken. The college has implemented online student feedback system. Course wise regular student feedback is collected on teaching and learning and is communicated to the respective faculty members so that assess themselves to improve and contribute to teaching learning process in a positive way. Teacher's feedback is collected regarding the facilities provided by the institute. Employer's feedback is taken from different Employers regarding performance of students.

Every semester teacher parent meet is organized parents feedback is collected at the time of teacher parent meet. Regular IQAC meetings are held in the institute and many advises and suggestions are discussed with Governing body accepted and effectively implemented for overall development of Institute.

CRITERION II -TEACHING-LEARNING AND EVALUATION**2.1 Student Enrolment and Profile****2.1. 1 Demand Ratio during the year**

| Name of the Programme | Number of seats available | Number of applications received | Students Enrolled |
|---|---------------------------|---------------------------------|-------------------|
| Mechanical Engineering | 120 | 49 | 49 |
| Electronics & Telecommunication Engineering | 60 | 10 | 10 |
| Electrical Engineering | 60 | 17 | 17 |
| Computer Science & Engineering | 60 | 49 | 49 |
| Civil Engineering | 60 | 12 | 12 |
| Total | 360 | 137 | 137 |

2.2 Catering to Student Diversity**2.2.1. Student - Full time teacher ratio (current year data)**

| Year | Number of students enrolled in the institution (UG) | Number of students enrolled in the institution (PG) | Number of full time teachers available in the institution teaching only UG courses | Number of full time teachers available in the institution teaching only PG courses | Number of teachers teaching both UG and PG courses |
|---------|---|---|--|--|--|
| 2017-18 | 995 | 5 | 87 | 03 | Nil |

2.3 Teaching - Learning Process**2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)**

| Number of teachers on roll | Number of teachers using ICT (<i>LMS, e-Resources</i>) | ICT tools and resources available | Number of ICT enabled classrooms | Number of smart classrooms | E-resources and techniques used |
|----------------------------|--|--|----------------------------------|----------------------------|---|
| 90 | 63 | Projector, Video Capture Card, Wi-Fi and internet facility | 5 | 0 | NPTEL lectures and Courses, YOU tube Educational videos, Digital library, Course Material CD,E content on Moodle. |

2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes.

Student Mentoring System is available in institute. Each faculty is the mentor of a group of 20 students. First year students have mentors from the department of Basic Engineering & Science and second, third, fourth year students have mentors from the parent department. Departmental faculties will continue to be mentors for the same group of students till their graduation. Every Friday there is one slot in time table for interaction with students. In this meeting mentor communicates personally with each student to understand the academic problems or personal issues of students. If the problem is within her/his scope he/she resolves it; Otherwise it is forwarded to the higher authority and medical counsellor.

Responsibilities:

The mentor takes care of student in following ways.

- Meet the group of students every Friday.
- Continuously monitor, counsel, guide and motivate the students in all academic matters.
- Advise students regarding choice of electives, project, summer training etc.
- Contact parents/guardians if situation demands e.g. academic irregularities, negative behavioural changes and interpersonal relations, detrimental activities etc.
- Advise students in their career development/professional guidance.
- Keep contact with the students even after their graduation.
- Intimate HOD and suggest if any administrative action is called for.
- Maintain a detail progressive record of the student in Progress Report Diary.
- Maintain a brief but clear record of all discussions with students.

| | | |
|---|-----------------------------|----------------------|
| HOD | | |
| <ul style="list-style-type: none"> • Meet all mentor of his/her department at least once a month to review proper implementation of the system. • Advice mentors wherever necessary. • Initiate administrative action on a student when necessary. • Keep the head of the institute informed. | | |
| Number of students enrolled in the institution | Number of fulltime teachers | Mentor: Mentee Ratio |
| 995 | 90 | 1:20 |

| | | | | |
|---|---|------------------|--|--------------------------|
| 2.4 Teacher Profile and Quality | | | | |
| 2.4.1 Number of full time teachers appointed during the year | | | | |
| No. of sanctioned positions | No. of filled positions | Vacant positions | Positions filled during the current year | No. of faculty with Ph.D |
| 90 | 90 | 00 | 75 | 2 |
| 2.4.2 Honours and recognitions received by teachers <i>(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)</i> | | | | |
| Year of award | Name of full time teachers receiving awards from state level, national level, international level | Designation | Name of the award, fellowship, received from Government or recognized bodies | |
| Nil | Nil | Nil | Nil | |
| 2.5 Evaluation Process and Reforms | | | | |
| <p>2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year.</p> <p>As the institute is affiliated to the Shivaji University (Third Year and Final Year) and Dr. Babasaheb Ambedkar Technological University, Lonere (First Year and Second Year); institute strictly adheres to norms and guidelines regarding evaluation and reforms given by university. Along with this, institute follows following evaluation process-</p> <p>a) After the result analysis at the end of each semester, the student performance in each subject is analyzed and whenever the performance is to be improved, the faculty in-charge is mentored by the Principal.</p> <p>b) Evaluation is done by comparing the teaching process with the laid down methods documented.</p> <p>c) It is monitored through feedback from the students every semester and the feedback is also noted for the faculty's appraisal and for corrective actions.</p> <p>d) Inter department academic monitoring is done by monitoring committee.</p> <p>e) Corrective and preventive actions are taken through discussions in department meetings.</p> | | | | |

| Programme Name | Programme Code | Semester/year | Last date of the last semester-end/year- end examination | Date of declaration of results of semester-end/year- end examination |
|------------------------------|----------------|---------------|--|--|
| Mechanical Engineering | 6545 61210 | 2017-18 | 16 th May 2018 | 29 th June 2018 |
| Electrical Engineering | 6545 29310 | 2017-18 | 16 th May 2018 | 4 th July 2018 |
| Civil Engineering | 6545 19110 | 2017-18 | 16 th May 2018 | 29 th June 2018 |
| E & TC Engineering | 6545 37210 | 2017-18 | 14 th May 2018 | 29 th June 2018 |
| Computer Science Engineering | 6545 24210 | 2017-18 | 14 th May 2018 | 4 th July 2018 |

2.5.2 Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The Primary objective of Continuous Internal Evaluation (CIE) is to monitor student progress. The Continuous Internal Evaluation(CIE) is done on the following parameters:

- a) Assignments
- b) Presentations
- c) Industrial visits and training
- d) Class interactions
- e) Group discussions
- f) Workshops/Seminars
- g) Projects
- h) Written and practical tests
- i) Inter college competitions
- j) Overall attendance and conduct during the session
- k) Parents meeting
- l) Extracurricular activities from the students
- m) Guest lectures
- n) Paper presentation
- o) Mock oral
- a) Written Exams
- b) Practical Exams
- c) Comprehensive Viva
- d) Project work

2.5.3 Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Academic Calendar is prepared with reference to university calendar before the commencement of academic year 2017-18. This calendar is provided to each student in the Progress Report Diary.

Academic Calendar starts with orientation Program for first and second year newly admitted students. This calendar contains various activities plan like at the start of every semester course file presentation by every faculty is conducted before the IQAC committee. In every month first Monday is Non- vehicle day; Every second Saturday is extra practical and doubt solving session and academic monitoring of department on every Friday is conducted.

Final Year Project Progress is reviewed as per schedule in Academic Calendar on Friday. Two class tests

are conducted during each semester as per academic plan. Once in semester Parent- Teacher Meet is scheduled and conducted on the same date.

Teacher's Day, Engineer's Day, Independence and Republic Day are celebrated along with technical and cultural activities of patriotism.

At the start of second term Sports and cultural activities has been planned and conducted accordingly. Academic calendar also considers schedule of various technical activities like Guest lecture, industrial visits, workshop, Paper presentation, Science exhibition etc.

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://agce.sets.edu.in/programoutcome.php>

2.6.2 Pass percentage of students

| Programme Code | Programme name | Number of students appeared in the final year examination | Number of students passed in final semester/year examination | Pass Percentage |
|----------------|---|---|--|-----------------|
| 6545 61210 | Mechanical Engineering | 111 | 88 | 79.27 |
| 6545 37210 | Electronics & Telecommunication Engineering | 51 | 51 | 100 |
| 6545 29310 | Electrical Engineering | 41 | 40 | 97.56 |
| 6545 24210 | Computer Science & Engineering | 54 | 49 | 90.74 |
| 6545 19110 | Civil Engineering | 47 | 46 | 97 |

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://agce.sets.edu.in/ssss.php>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Resource Mobilization for Research

3.1.1 Research funds sanctioned and received from various agencies, industry and other organisations

| Nature of the Project | Duration | Name of the funding Agency | Total grant sanctioned | Amount received during the Academic year |
|----------------------------|-------------|----------------------------|------------------------|--|
| Major projects | -- | -- | -- | -- |
| Minor Projects | 2017 - 2018 | IBDC, Baramati | 64000/- | 64000/- |
| Interdisciplinary Projects | -- | -- | -- | -- |
| Industry sponsored | 2017 | A.R. Engineering, | 10000/- | 10000/- |

| | | | | |
|---|-----------|--------|---------|---------|
| Projects | - 2018 | Satara | | |
| Projects sponsored by the University/ College | -- | -- | -- | -- |
| Students Research Projects (other than compulsory by the College) | -- | -- | -- | -- |
| International Projects | -- | -- | -- | -- |
| Any other(Specify) | -- | -- | -- | -- |
| Total | | | 74000/- | 74000/- |

3.2 Innovation Ecosystem

3.2.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

| Title of Workshop/Seminar | Name of the Dept. | Date(s) |
|---|--|---|
| Outcome based Education and NBA Accreditation(OBENBA) | All | 1 st Nov -5 th Nov 2017 |
| Aurdino microcontroller Programming and applications | Electronics and Telecommunication Engineering and Computer Science | 22 nd -23 rd Dec 2017 |
| Workshop on “Android Applications” | Electronics and Telecommunication Engineering | 9 th -10 th Sep 2017 |
| Workshop on Microsoft Project | Civil Engineering | 16 th Sep 2017 |
| Workshop on New Construction Material | Civil Engineering | 23 rd March 2018 |
| Hands on Workshop of UG-NX | Mechanical Engineering | 20 th July 2018 |
| Robotics | Electrical Engineering | 20 th Dec 2017 |
| Android Based Robotics | Computer Science & Engineering | 20 th -21 st Dec 2017 |

3.2.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

| Title of the innovation | Name of the Awardee | Awarding Agency | Date of Award | Category |
|-------------------------|---------------------|-----------------|---------------|----------|
| Nil | Nil | Nil | Nil | Nil |

3.2.3 No. of Incubation centre created, start-ups incubated on campus during the year

| Incubation Centre | Name | Sponsored by |
|-------------------|--------------------------------------|--------------------------|
| AGCE Satara | AGCE & Design-tech Furnishing School | Design-tech Systems Pune |

| Name of the Start-up | Nature of Start-up | Date of commencement |
|---------------------------------|---------------------------------------|----------------------|
| 3star IT solution, Satara | Software Small scale company | 1 July 2017 |
| Creative Technology & Solutions | Hardware and Software Service Company | June 2017 |

3.3 Research Publications and Awards

3.3.1 Incentive to the teachers who receive recognition/awards

| State | National | International |
|-------|----------|---------------|
| Nil | Nil | Nil |

| 3.3.2 Ph. Ds awarded during the year (<i>applicable for PG College, Research Center</i>) | | | | | | | |
|---|---|-----------------------|---------------------|-----------------------|---|---|--|
| Name of the Department | | | | No. of Ph. Ds Awarded | | | |
| N.A. | | | | N.A. | | | |
| 3.3.3 Research Publications in the Journals notified on UGC website during the year | | | | | | | |
| | Department | | No. of Publication | | Average Impact Factor, if any | | |
| International | Civil Engineering | | 04 | | 1.5 | | |
| International | Mechanical Engineering | | 24 | | 1.5 | | |
| International | Electronics and Telecommunication Engineering | | 08 | | 1.5 | | |
| International | Computer science and Engineering | | 06 | | 1.5 | | |
| International | Electrical Engineering | | 06 | | 1.5 | | |
| 3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year | | | | | | | |
| Department | | | | No. of publication | | | |
| Civil Engineering | | | | 04 | | | |
| Mechanical Engineering | | | | 24 | | | |
| Electrical Engineering | | | | 06 | | | |
| Electronics and Telecommunication Engineering | | | | 08 | | | |
| Computer science and Engineering | | | | 05 | | | |
| 3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index | | | | | | | |
| Title of the paper | Name of the author | Title of the journal | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citations | |
| Nil | Nil | Nil | Nil | Nil | Nil | Nil | |
| 3.3.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science) | | | | | | | |
| Title of the paper | Name of the author | Title of the journal | Year of publication | h-index | Number of citations excluding self citations | Institutional affiliation as mentioned in the publication | |
| A review on vibrational | Prof. Bamankar | International Journal | 2015 | 1 | 1 | AGCE Satara | |

| | | | | | | |
|---|---------------------|--|------|---|---|-------------|
| analysis of suspension system for quarter and half car model with various controllers | P.B. | of Advanced Engineering Research Studies | | | | |
| Study of the Effect of Process Parameters on Depth of Penetration and Bead Width in SAW (Submerged Arc Welding) process | Prof. Bamankar P.B. | International Journal of Advanced Engineering Research Studies | 2013 | 1 | 8 | AGCE Satara |

3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year :

| No. of Faculty | International level | National level | State level | Local level |
|------------------------------|---------------------|----------------|-------------|-------------|
| Attended Seminars/ Workshops | -- | -- | -- | 47 |
| Presented papers | 47 | -- | -- | -- |
| Resource Persons | -- | -- | -- | -- |

3.4 Extension Activities

3.4.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

| Title of the Activities | Organising unit/ agency/ collaborating agency | Number of teachers co-ordinated such activities | Number of students participated in such activities |
|-------------------------|---|---|--|
| NSS Camp | AGCE and Bamnoli Village Panchayat | 05 | 50 |
| Nirmalya Collection | AGCE and Taluka Police Station Satara | 05 | 52 |
| Health Check-up Camp | AGCE and Bamnoli Village Panchayat | 05 | 50 |
| Soak Pit Creation | AGCE and Bamnoli Village Panchayat | 05 | 52 |

3.4.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

| Name of the Activity | Award/recognition | Awarding bodies | No. of Students benefited |
|----------------------|--------------------------------|-----------------------------|---------------------------|
| NSS Camp | Appreciation Letter and Trophy | Shivaji University Kolhapur | 06 |

| 3.4.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year | | | | |
|---|---|---|--|--|
| Name of the scheme | Organising unit/ agency/ collaborating agency | Name of the activity | Number of teachers coordinated such activities | Number of students participated in such activities |
| Swachh Bharat Abhiyan | AGCE and Panmalewadi Panchyat | Swachh Bharat Abhiyan | 05 | 52 |
| Cyber Crime Awareness | AGCE and Taluka Police Station Satara | Cyber Crime Awareness | 05 | 50 |
| Women Empowerment | AGCE Satara | Women Empowerment | 05 | 52 |
| Organic Fertilizer Awareness | AGCE Satara | Organic Fertilizer Awareness | 05 | 52 |
| 3.5 Collaborations | | | | |
| 3.5.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year | | | | |
| Nature of Activity | | Participant | Source of financial support | Duration |
| Nil | | Nil | Nil | Nil |
| 3.5.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year | | | | |
| Nature of linkage | Title of the linkage | Name of the partnering institution/ industry /research lab with contact details | Duration (From-To) | participant |
| Visit | Industrial visit | Indian Space Research Organization (ISRO) | 8 th Dec 2017 | Student and Faculty Members |
| Visit | Industrial visit | Magnaplast Technologies Pvt. Ltd. Bhosari Pune | 9 th Feb 2017 | Student and Faculty Members |
| Visit | Industrial visit | Giant Meterwave Radio Telescope | 9 th Jan 2017 | Student and Faculty Members |
| Visit | Industrial visit | AIR Center Kolhapur | 3 rd Jan 2017 | Student and Faculty Members |
| Visit | Industrial visit | Marvelous industry Kolhapur | 3 rd Jan 2017 | Student and Faculty Members |
| Training and Placement | Placement | Aprontech Satara | 3 rd April 2018 | Students |
| Training and | Placement | SV Engineering Satara | 10 th April 2017 | Students |

| | | | | |
|------------------------|------------------|------------------------------|--|-----------------------------|
| Placement | | | | |
| Internship | Internship | Inventive Infotech | 1 st Aug -13 th Sept 2017 | Students |
| Internship | Internship | IT Planet | 3 rd Feb -23 rd March 2018 | Students |
| Visit | Industrial visit | Kavitsu Transmissions Satara | 22 nd September 2017 | Student and Faculty Members |
| Visit | Industrial visit | Renuka Sugar Factory Shendre | 8 th September 2017 | Student and Faculty Members |
| Visit | Industrial visit | Well flow industries Satara | 15 th September 2017 | Student and Faculty Members |
| Training and Placement | Placement | T E Connectivity Shirval | March 2018 | Students |
| Training and Placement | Placement | Cummins India Pvt. Ltd, | March 2018 | Students |
| Training and Placement | Placement | Alfa Laval pune | March 2018 | Students |

3.5.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

| Organisation | Date of MoU signed | Purpose and Activities | Number of students/teachers participated under MoUs |
|--------------------|---------------------------|--------------------------------|---|
| Akashwani Satara | Feb 2018 | Industrial visit and publicity | Faculty:-02 |
| Design Tech system | 22 nd Dec 2017 | Student Training | Students :-15 |

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year

| Budget allocated for infrastructure augmentation | Budget utilized for infrastructure development |
|--|--|
| Nil | 96,000/- |

4.1.2 Details of augmentation in infrastructure facilities during the year

| Facilities | Existing | Newly added |
|---|--------------|---------------------------------------|
| Campus area | 10 Acre | Nil |
| Class rooms | 24 | Nil |
| Laboratories | 43 | 5 |
| Seminar Halls | 04 | Nil |
| Classrooms with LCD facilities | 05 | Nil |
| Classrooms with Wi-Fi/ LAN | 5 | Nil |
| Seminar halls with ICT facilities | 04 | Nil |
| Video Centre | 00 | 01 |
| No. of important equipments purchased (\geq 1-0 lakh) during the | 1) PC- 333 , | 1) 8KVA spot welding machine-44,958/- |

| | | |
|---|----------------------|---|
| current year. | 2)20-Major Equipment | 2) Cut of machine 1ph, 3hp, 1440 rpm-39,217/- |
| Value of the equipment purchased during the year (Rs. in Lakhs) | 1,99,69,568/- | 84,175/- |
| Others | Nil | Nil |

4.2 Library as a Learning Resource

4.2.1 Library is automated {Integrated Library Management System -ILMS}

Library Circulation is fully automated. We are providing value added services like Web OPAC (Online Public Access Catalogue), CAS (Current Awareness Service), SDI (Special Dissemination of Information) through Library Management Software to our users.

| | | | |
|---|---|---------|--------------------|
| Total number of computers for public access | 10 | | |
| Total numbers of printers & Xerox for public access | 01 | | |
| Internet band width / speed | 32 Mbps (1:1) | | |
| Content management system for e-learning | Yes | | |
| Name of the ILMS software | Nature of automation (fully or partially) | Version | Year of automation |
| Biyani Technology | Fully | 3 | 29 March 2013 |

4.2.1 Library Services:

| | Existing | | Newly added | | Total | |
|-----------------------|----------|---------|-------------|--------|-------|---------|
| | No. | Value | No. | Value | No. | Value |
| Text Books | 9742 | 2505385 | 189 | 97025 | 9921 | 2602410 |
| Reference Books | 1024 | 987453 | Nil | Nil | 1024 | 987453 |
| e-Books | 1596 | Nil | Nil | Nil | Nil | Nil |
| Journals | 30 | 431397 | 37 | 111000 | 37 | 111000 |
| e-Journals | 01 | 13570 | 01 | 13570 | 01 | 13570 |
| Digital Database | Nil | Nil | Nil | Nil | Nil | Nil |
| CD & Video | 192 | Nil | Nil | Nil | Nil | Nil |
| Library automation | Yes | | | | | |
| Weeding (Hard & Soft) | Nil | Nil | Nil | Nil | Nil | Nil |
| Others (specify) | | | | | | |
| 1. Newspapers | 3 | Nil | 3 | Nil | 3 | Nil |
| 2. Project Reports | 144 | | 48 | | 192 | |

4.3 IT Infrastructure

4.3.1 Technology Upgradation (overall)

| | Total Computers | Computer Labs | Internet | Browsing Centres | Computer Centres | Office | Departments | Available band width (MGBPS) | Others |
|----------|-----------------|---------------|---------------|------------------|------------------|--------|-------------|------------------------------|--------|
| Existing | 333 | 12 | 32 Mbps (1:1) | Nil | 75 | 9 | 6 | 6(Servers) | 75 |
| Added | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| Total | 333 | 12 | 32 Mbps (1:1) | Nil | 75 | 9 | 6 | 6(Servers) | 75 |

| | | | |
|---|--------------------|--|-------------------------------|
| 4.3.2 Bandwidth available of internet connection in the Institution (Leased line) | | | |
| 32 MBPS | | | |
| 4.3.3 Facility for e-content | | | |
| Name of the e-content development facility | | Provide the link of the videos and media centre and recording facility | |
| NPTEL Video's | | http://192.168.10.3/agce | |
| 4.3.4 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc | | | |
| Name of the teacher | Name of the module | Platform on which module is developed | Date of launching e - content |
| Nil | Nil | Nil | Nil |

4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

| Assigned budget on academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurred on maintenance of physical facilities |
|--|--|--|--|
| 4336420 | 4224275 | 442000 | 410263 |

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (*maximum 500 words*) (information to be available in institutional Website, provide link)

Amount spent on maintenance in lakhs :

i) ICT

a. Computer peripherals R & M-

19,125/-

ii) Campus Infrastructure and facilities

a. Furniture VVIP – 8,680/-

b. Repairs, Maintain. Etc.- 1,580/-

c. Gymkhana- 4,566/-

d. College Board, Notice board– 14,700/-

e. National Anthem Player Repair- 5,300/-

34,826/-

iii) Equipments

a. Lab equipments & Machinery Repair-

9,245/-

iv) Others(miscellaneous)

a. Vehicle Repairs, Insurance etc.-

38,932/-

Total :

1,02,218/-

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1 Scholarships and Financial Support

| | Name /Title of the scheme | Number of students | Amount in Rupees |
|--------------------------------------|----------------------------|--------------------|------------------|
| Financial support from institution | Students adaptation Scheme | 14 | 364168 |
| Financial support from other sources | | | |
| a) National | Nil | Nil | Nil |
| b) International | Nil | Nil | Nil |

5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

| Name of the capability enhancement scheme | Date of implementation | Number of students enrolled | Agencies involved |
|--|---|-----------------------------|----------------------|
| Employability Skill Development Soft Skill | 22 nd Jan to 9 th March 2018 | 80 | Miss. Chavan Roshana |
| Yoga, Meditation | 24 th July to 28 th July 2017 | 108 | Dr. Priya Jagdale |
| Remedial coaching Classes | 11 th to 17 th Oct 2017 | 45 | Mrs. Kasture A.D. |

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

| Year | Name of the scheme | Number of benefited students by Guidance for Competitive examination | Number of benefited students by Career Counselling activities | Number of students who have passed in the competitive exam | Number of students placed |
|---------|-------------------------|--|---|--|---------------------------|
| 2017-18 | Career guidance Seminar | 100 | 2 | 2 | 0 |

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

| | | |
|---------------------------|-----------------------------|--|
| Total grievances received | No. of grievances redressed | Average number of days for grievance redressal |
| Nil | Nil | Nil |

5.2 Student Progression

5.2.1 Details of campus placement during the year

| On campus | | | Off Campus | | |
|-------------------------------|---------------------------------|---------------------------|-------------------------------|---------------------------------|---------------------------|
| Name of Organizations Visited | Number of Students Participated | Number of Students Placed | Name of Organizations Visited | Number of Students Participated | Number of Students Placed |
| BSA Corporations | 15 | 2 | Lotus Tech Pvt Ltd. | 15 | 2 |
| TE Connectivity Shirwal | 92 | 39 | Arete Technology | 17 | 2 |
| | | | IT –PLANET | 25 | 3 |
| | | | Apron Tech Satara | 12 | 5 |

5.2.2 Student progression to higher education in percentage during the year

| Year | Number of students enrolling into higher education | Programme graduated from | Department graduated from | Name of institution joined | Name of Programme admitted to |
|---------|--|--------------------------|---------------------------|------------------------------------|-------------------------------|
| 2017-18 | 04 | AGCE, Satara | Mechanical | KBP Management Satara, AGCE Satara | MBA , M-tech(Heat and Power) |
| | 01 | AGCE, Satara | Electrical | JSPM Pune | ME (Heat-Power) |

5.2.3 Students qualifying in state/ national/ international level examinations during the year

(e. g : NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

| Items | No. of Students selected/qualifying | Registration number/roll number for the exam |
|-------|-------------------------------------|--|
| NET | Nil | Nil |
| SET | Nil | Nil |
| SLET | Nil | Nil |
| GATE | Nil | Nil |
| GMAT | Nil | Nil |
| CAT | Nil | Nil |
| GRE | Nil | Nil |

| | | |
|---------------------------|-----|-----|
| TOFEL | Nil | Nil |
| Civil Services | Nil | Nil |
| State Government Services | Nil | Nil |
| Any Other | Nil | Nil |

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

| Activity | Level | Participants |
|---------------|-----------|--------------|
| Sawkar Trophy | District | 128 |
| Kabaddi | District | 168 |
| Volley ball | Institute | 60 |
| Tug of War | Institute | 65 |

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

| Year | Name of the award/ medal | National/ International | Sports | Cultural | Student ID number | Name of the student |
|------|--------------------------|-------------------------|--------|----------|-------------------|---------------------|
| Nil | Nil | Nil | Nil | Nil | Nil | Nil |

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/ committees of the institution (maximum 500 words)

The institute has active cell of student council. This council consists of student elected as GS (General Secretary) and other student class coordinators along with a teaching faculty. This student council actively participates in all activities of the institute with guidance of the teaching faculty coordinator. Actually this council acts as a mediator between the faculty and the students. This council helps the teaching faculties as well as management of the institute both in academic as well as administrative activities as follows:

- Coordination of academic activities throughout the semester
- Coordination of co curricular and extracurricular activities smoothly
- Coordination of industrial visits
- Coordination of seminars/workshops by inviting external guests
- Presenting the problems of students in front of teaching faculty as well as management
- To assists teaching faculties heading various academic as well as administrative committees
- Motivating the students to actively participate in various activities initiated by the institute.

Institute also provides the necessary support to student council for organization of any activity. Council helps the teaching faculty coordinators in many of the other committees as institute magazine, library, hostel, mess, grievance etc

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):Yes

Alumni Association of Arvind Gavali College of Engineering

The concept of alumni association evolved for needs from both the ends, i.e. academicians and professionals, in the aim of building a bridge between college life and career life, so that the fresher graduates are made proactive to face the current challenges of competitive professional world. Both the ends shall work hand in

hand to help each other for achieving the goal. The idea took shape and formation of Alumni Association turned into reality.

Alumni Association of Arvind Gavali College of Engineering is formed in the year 2015 and it is registered as “Alumni Association Arvind Gavali College of Engineering”.

Objectives:-

1. To provide a forum to establish a link between the alumni, staff and students of the Institute.
2. To enable the alumni to participate in activities that would contribute to the general development of the Institute and the Society.
3. To help the alumni with their technical and relocation problems.
4. To try to find employment opportunities to students and fellow alumni members in need.
5. To give institute prizes and scholarships, and render financial aid to needy and deserving students of the Institute.
6. To assist in conduction and organizing academic activities like conferences, workshops, technical symposiums.
7. To contribute towards the welfare of the alumni.
8. To keep the alumni abreast of scientific and technological developments of national and global importance.
9. To generate funds to give scholarships to meritorious students and awards to toppers of all branches of engineering.
10. To arrange seminars and debates for technical guidance to students for knowledge and career Advancement.
11. To invest and deal with the funds of the Association.
12. To do such other lawful things as are conducive or incidental to the attainment of the above objectives and / or beneficial to the interests of the Institute and its Alumni.
13. To promote Entrepreneurship & Innovation among the students.
14. To help Institute for effective liaison to Industry.

Alumni Association Arvind Gavali College of Engineering has conducted four Alumni Meets till date.

First Alumni Meet:

The first Alumni meet was held on 24 February 2015.

The guest for that meet was 1. Dr. P. S. Pondav

Deputy Registrar Shivaji University, Kolhapur.

2. Mr. Subhash Doshi

Chairman M/S Abhijit Equipment Pvt. Ltd. Satara.

Total Alumni were Present : 20

Second Alumni Meet:

Second Alumni meet was held on 20 February 2016.

The guest for that meet was 1. Mr. Shekhar Bidwai

Chinmay Education Consultancy,

Pune.

2. Mr. Vaibhav Raut

Maharashtra Scooters,

Satara.

Total Alumni were Present : 51

Third Alumni Meet:

Third Alumni meet was held on 19 February 2017.

The guest for that meet was- 1. Mr. Sujit Kalunge.

They have given speech on Management Skills of Hon. Chatrapati Shivaji Maharaj on Occasion of alumini meet.

Total Alumni were Present : 59

Forth Alumni Meet:

Forth Alumni meet was held on 7 April 2018.

The names of guests 1. Mr. Zakir Mirza
 President, Builder's Association, Satara.
 2. Mr. Avinash Deshmukh
 TCS, Pune.

Total Number of Alumni Present:89

5.3.2 No. of registered enrolled Alumni:

299

5.3.3 Alumni contribution during the year (in Rupees) :

149500/-

5.3.4 Meetings/activities organized by Alumni Association :

1 Nos.

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The management gives sufficient freedom to the principal, who is the academic head of the institute to function in order to fulfill the vision and mission of the institute. The institute delegates authority and provides operational autonomy to the departments to work towards decentralized governance system. The policies largely aim at reducing central management size, reorganizing delivery and creating new partnerships. Academic responsibilities are fairly divided among all the staff members. Committees are appointed for the various academic and co-curricular activities to be conducted in the course of the academic year. The responsibilities are communicated to the faculty members through regular staff meetings. The participative decision-making ensures total participation of all the people concerned. The office administration of the institute is headed by the Registrar under whom there are head clerk, senior clerk, junior clerks and other class III and class IV staff.

The registrar consultation with the principal coordinates the day today activities. The management is always open to discussion with the teaching and nonteaching staff which, in turn, encourages the involvement of the staff for the improvement of effectiveness and efficiency of the institute process. There is a network system of coordinative mechanism for the successful conduct of the institute activities. Not only the department

meetings are conducted but also intra departmental meetings are arranged for common issues. The principal with the heads of the departments discusses the needs, problems and suggestions to improve the educational quality and infrastructure improvements to talk to the management for further action. The teaching and nonteaching staffs are represented in the institute committees. The department involves and allows the faculty members to participate voluntarily with involvement in every work. There are various committees constituted to manage different institute activities.

6.1.2 Does the institution have a Management Information System (MIS)?

Partial:

Yes. MIS is used for-

- Accounts and financial works (e.g. Tally) - Institute accountant used to keep record of all financial on license software Tally which includes fees of students, operational expenses, equipment, furniture, maintenance etc.
- Staff attendance biometric- Staff attendance record is maintain by biometric attendance.
- Library (Library Management Software by Biyani Technology) - This software is helpful to incorporate barcode system for books issue and return. It keeps the record of book issued and return. OPAC system allows students to search books available and put requisitions through Personal computer in the library
- MOODLE- It is open source platform develop for academic institution. It can be customize to keep the student record online like their Attendance, Test result etc. Also faculty can upload notes, e-learning resources like PPT, Video lectures which can be access by students online.

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

❖ Curriculum Development

Board of studies (BoS) is a body in the University to formulate the curriculum with proper meetings and suggestions from Premium Institute and Industry. Our faculties have attended curriculum enrichment program at DBATU University for First Year B. Tech Syllabus. Faculty used to interact with academicians through workshops, Conferences.

❖ Teaching and Learning

Semester Pre-commencement Preparations-

- Lesson plans
 - Course learning Objectives and Course Outcomes
 - Topic learning Objectives and Outcomes
 - Course notes
 - Updating the library with appropriate books as suggested by the faculty
 - Modifying the laboratories to cater for the needs of revised syllabus and new technology
 - Use of MOODLE platform-This platform is developed as a resource to the students. All Course related information material, model answers for Unit Tests and University Examination Papers, attendance of students, test performance of students are uploaded on the MOODLE by the faculty. Monitoring students performance through
 - Internal Unit Test-I and II
 - Assignments and seminars, projects
- Monitoring the teaching process through
- Online feedback from students (Mid semester and end semester)
 - Oral feedback from students in the student council meeting with Head of department and Dean (Academic) and during Mentoring sessions.

- Academic audit by Academic committee
- Audit of completed syllabus (Monthly)
- Result analysis at the end of semester examination.
- Addressing issues of individual student through GFM
- Additional classes for slow learners
- Personal guidance to students approaching with difficulties
- Mentoring of students to motivate for betterment of performance
- Addressing issues related to course
- Extra lectures are allocated in the time table for courses of difficult nature.
- Teaching methodology workshops are conducted
- Lectures are conducted on prerequisite topics
- Expert lectures are conducted on topics related to the course, but, outside the syllabus
- Remedial lectures are conducted for slow learners and for students with lateral entry admitted late.
- Addressing issues of faculty
- Course assignment as per Competency Matrix.
- Mentoring and guidance to faculty for a course handled by him/her by senior/competent faculty
- Inputs from IQAC, Department Academic advisory committee, Parent-Teacher association and various Feedback mechanisms are considered for improvising the teaching-learning.

❖ Examination and Evaluation

Two internal unit tests are conducted per semester. For the first year students, in addition, a preliminary examination is conducted at the end of semester.

- Timely assessment of tests is done and the result is displayed.
- Term work evaluation is done on Continuous basis. Students, after getting to know the marks at the early stage of semester, get an opportunity/scope to improve their credentials.
- Theory examination and practical/oral examinations are conducted as per Shivaji University schedule and rules.
- The Faculty contributes in the university examination work like- question paper setting, invigilation duty of theory examination, examiner and subject experts for the PO examinations & assessment of theory Examinations answer books.

❖ Research and Development

Research and Development Cell is formed to promote Research and Development in the institute. The cell includes faculty, academicians and researchers. The cell meets once in a semester and delivers guidelines for quality improvement in R and D.

- The institute motivates the faculty to undertake research activities through post graduate studies and doctoral studies. It motivates them to publish Research Papers. For this, incentives such as study leave, financial assistance for research paper presentation etc. is provided. In 2017-18, 06 faculty members are pursuing PhD.
- The institute motivates the students to undertake complex engineering projects as a part of curriculum as well as for participating in external project competitions. Financial assistance is provided by the institute for genuine researchers. Final year students' project exhibition is organized.
- Potential research collaborators are identified and MoUs are established. Presently, MoUs are established with companies.

❖ Library, ICT and Physical Infrastructure / Instrumentation

Library

- Central Library committee gives guidelines for improving the quality of library resource.
- Suggestions from student's committee for Library and IQAC suggestions are used for improvement in quality of library resource.
- New books/journals are purchased every year to update the library. All Faculty is involved in this Process. 37 Print journals worth Rs.1.11 Lakhs and 189 Books worth Rs.1.03 Lakh are newly procured during 2017-18 by the Central Library.

- Automation in Library management is increased.
- Presently, Library Circulation is fully automated. The services like Web OPAC (Online Public Access Catalogue).
- Institutional membership of DELNET(Developing Library Network)is taken which gives access to more than 10,000 e-books and e journals and NDL(National Digital Library) which gives access to million of e-resources.
- Each Department has own Library facility that includes text books, project and seminar reports and Papers published.
- Group Book bank provided to all students. This is coordinated by Guardian Faculty member.

ICT

- The institute regularly increases ICT facilities for classrooms, tutorial rooms and Laboratories. Presently, each Department has minimum 1 class rooms that are equipped with LCD Projector audio system, Wi-Fi facility and wired internet/ network facility, Each department is provided Computer for faculty usage in interactive teaching.
- The institute regularly enhances the Internet connectivity facility. Presently, the. Internet facility includes: 32 Mbps leased line,
- The institute has FTP Server for resource access.
- The institute is regularly increasing the Usage of MOODLE platform by the faculty: Notes, assignments, announcements, notices, question bank, quiz are uploaded. The MOODLE platform itself is revised to enhance user friendliness.

Physical infrastructure

- Physical infrastructure is increased to address the needs of a trade or a course or the intake capacity of the course.
- Computers and Software has been added in language laboratory.
- Infrastructure in the form of development of Parking space was added.
- In2017-18, CC TV's are installed in some classrooms.

❖ Human Resource Management

While recruiting and retaining the HR, the institute adheres to the quality improvement strategy.

- For professional development of the HR, the institute delegates the faculty and staff to undergo development programs outside the institute, provides technical resources and financial assistance to undertake such development programs.
- The institute organizes HR development programmes for faculty, staff and students for skill up gradation and training.
- Faculty is felicitated for their academic achievements.
- For compensation and benefits of the students and the staff, welfare schemes exist in the institute.
- The institute uses performance evaluation methods for the HR. At the end of every year, Performance evaluation of the staff is done by head of the department/section. This is used for deciding promotions and increments. Own performance evaluation is done by the faculty and reports are submitted to the Principal.
- Weekly meetings of higher authority with the section heads are conducted to ensure healthy relations and communication amongst the members of the section. Occasionally, meetings of faculty, staff and Students with the top management are conducted.

❖ Industry Interaction / Collaboration

- Inclusion of industry experts in departmental Advisory Board(DAB)
- In view of sharing technical resources and expertise, MOUs are signed with reputed companies.
- Industry Internship programs, industry designed certification courses and Industrial training during vacation are Organized for the students.
- Orientation programs are conducted for the students and guest lectures by the Industry experts
- Some of the projects undertaken by the students are sponsored by industries. These projects are based on the needs of that industry.
- Alumni placed in the reputed industries are invited for informal dialogue with the students.

- Entrepreneurship training workshops are organized for the students.
- Industry offers internship programs to the student.

❖ Admission of Students

- Admission of the students is through a central process conducted by a state government body DTE (Directorate of Technical education) where students choose an institute as per their requirement. Students the region used to prefer institution for admission to this institute due to its quality of education and Accreditation. The institute maintains this reputation by adopting following strategies-
- Maintaining good results in University examinations by means of quality trends of teaching learning, providing quality infrastructure and facilities, improvement in training and placement track records.
- Encouraging extra-curricular activities like sports and other arts.
- Maintaining Ragging-free environment
- The institute conducts admission process awareness programmes, counseling sessions for prospective students.
- Career counseling program are arranged at different colleges and in also at AGCE campus during admission process.
- Scholarships are offer to needy and scholar students.

6.2.2 : Implementation of e-governance in areas of operations:

❖ Planning and Development

Institute Vision, Mission is available on website. All activities in the institute are adhering to Vision and Mission of Institute. Institute Website continuously updated with upcoming events at institute like examination schedule, admission deadline, technical sports and cultural activities. Also after finishing every activity report and photographs are uploaded on website.

❖ Administration

Office maintains all student data related to their admission, Scholarship, Examination etc. All on computer. Also Student fees, other finance related data is maintained through Tally software. MOODLE platform allows faculty to fill online student attendance, assignment and result of tests.

❖ Finance and Accounts

Accounts record is maintain on Tally software. Online Fee payment facility is available for student.

❖ Student Admission and Support

Directorate of Technical Education offers online applications for Engineering Aspirants. Students are able to fill online option form and can do confirmation of admission by freezing institute option and reporting to ARC. Institute also confirm student admission online. Institute admission form and other admission related data is available on website of institute. Online feedback system is made available through MOODLE.

❖ Examination

All Examination Forms are filled online. Results are declared online on university website. Also for photo copy and revaluation applications are possible through online form filling.

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

| Year | Name of teacher | Name of conference/ workshop attended for which financial support provided | Name of the professional body for which membership fee is provided | Amount of support |
|------|-----------------|---|--|----------------------|
| Nil | Nil | Nil | Nil | Nil |

6.3.2 Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

| Year | Title of the professional development programme organised for teaching staff | Title of the administrative training programme organised for non-teaching staff | Dates (from-to) | No. of participants (Teaching staff) | No. of participants (Non- teaching staff) |
|---------|---|--|---|---|---|
| 2017-18 | Outcome Based Education and NBA Accreditation (OBENBA) | Nil | 1 st November to 5 th November 2017 | 65 | Nil |

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

| Title of the professional development programme | Number of teachers who attended | Date and Duration (from – to) |
|--|---------------------------------|---|
| Outcome based Education and NBA Accreditation(OBENBA) | All | 1 st NOV-5 th NOV 2017 |
| Arduino microcontroller Programming and applications | 2 | 22 nd -23 rd DEC 2017 |
| Workshop on “Android Applications” | 8 | 9 th -10 th Sep 2017 |
| Workshop on Microsoft Project | 6 | 16 th SEP 2017 |
| Workshop on New Construction Material | 5 | 23 rd March 2018 |
| Hands on Workshop of UG-NX | 6 | 20 th July 2018 |
| Robotics | 4 | 20 th Dec 2017 |
| Android Based Robotics | 7 | 20 th -21 st Dec 2017 |

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):

| Teaching | | Non-teaching | |
|-----------|----------|--------------|--------------------|
| Permanent | Fulltime | Permanent | Fulltime/temporary |
| 16 | 74 | 41 | 00 |

6.3.5 Welfare schemes for

| | |
|--------------|------------------|
| Teaching | Insurance |
| Non teaching | Insurance |
| Students | Insurance |

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly(with in 100 words each)

Internal Audit: After every six month institute undergoes half yearly internal audit. Institute appoint professional who are currently working under Chartered Accountant to do internal audit. They verify and confirm all finance related document. Report of audit is submitted to Principal and Registrar. In case of query, they instruct Chief account to take necessary action.

External Audit: Institute each year undergo financial audit in the month of May and June. This audit is done by practicing Chartered Accountant (CA). Account department uses Tally software. CA checks all entries in Tally software and verifies all books of accounts.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

| Name of the non government funding agencies/ individuals | Funds/ Grants received in Rs. | Purpose |
|--|-------------------------------|---------|
| Nil | Nil | Nil |

6.4.2 Total corpus fund generated NIL

6.5 Internal Quality Assurance System

6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

| Audit Type | External | | Internal | |
|----------------|----------|--|----------|-----------------------|
| | Yes/No | Agency | Yes/No | Authority |
| Academic | Yes | Local Inspection Committees of SUK & DBATU | Yes | Dean Academic and HOD |
| Administrative | Yes | Chartered Accountant | Yes | Principal |

6.5.2 Activities and support from the Parent – Teacher Association (at least three)

1. Every year once in semester parent teacher meet is organised.
2. Their feedback is taken to improve quality of education and other facility.

6.5.3 Development programmes for support staff (at least three)

1. Support staffs are motivated to take participation in skill development program like PMKVY. Two staffs are currently attending courses.
2. Insurance of all Non teaching staff.
3. Non teaching staff is promoted to attend workshops.

6.5.4 Post Accreditation initiative(s) (mention at least three)

1. Every year institute is organising International Conference from 2017 to improve research culture in the Institute. Students and faculties from institute as well as from outside the institute used to present their Research paper.
2. To promote project based learning Project Exhibition is organised from 2018
3. Institute got IIT Remote Centre active from 2017. Student used to attend workshops in association with IIT through video conferencing
4. To enhance employability Industry Institute Interaction is strengthen. As a result placement of the student is Increased during this academic year as compared to last year.

6.5.5

- a. Submission of Data for AISHE portal : Yes
- b. Participation in NIRF : No
- c. ISO Certification : No
- d. NBA or any other quality audit : No

6.5.6 Number of Quality Initiatives undertaken during the year

| Year | Name of quality initiative by IQAC | Date of conducting activity | Duration (from-----to-- ----) | Number of participants |
|---------|------------------------------------|---------------------------------------|---------------------------------------|------------------------|
| 2017-18 | Tech Fest-Regional | 28 th and 29 th | 28 th and 29 th | 550 |

| | | | | |
|---------|---|--|--|-----|
| | Science Exhibition | December 2017 | December 2017 | |
| 2017-18 | Prayog- State Level Project Exhibition | 9 th March 2018 | 9 th March 2018 | 282 |
| 2017-18 | Outcome Based Education and NBA Accreditation (OBENBA)- Faculty Development Program | 1 st to 5 th November 2017 | 1 st to 5 th November 2017 | 72 |

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

| Title of the programme | Period (from-to) | Participants | |
|------------------------|------------------|--------------|-----|
| Nil | Nil | Nil | Nil |

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the College met by the renewable energy sources

Name of Activity: Environmental Consciousness -River Conservation by cleaning river

Location : Panmalewadi, Satara

Date of conduction: 31st August & 5th September 2017

7.1.3 Differently abled (Divyangjan) friendliness

| Items Facilities | Yes/No | No. of Beneficiaries |
|--|--------|----------------------|
| Physical facilities | Yes | 0 |
| Provision for lift | No | 0 |
| Ramp/ Rails | Yes | 0 |
| Braille Software/facilities | No | 0 |
| Rest Rooms | Yes | 0 |
| Scribes for examination | Yes | 0 |
| Special skill development for differently abled students | No | 0 |
| Any other similar facility | No | 0 |

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

| Year | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date and duration of the initiative | Name of the initiative | Issues addressed | Number of participating students and staff |
|---------|--|--|-------------------------------------|------------------------|---------------------------|--|
| 2017-18 | Nil | 1 | 29 th September 2017 | Swach Bharat | Importance of Cleanliness | 52/5 |

| | | |
|--|-----------------------------|------------------------------------|
| 7.1.5 Human Values and Professional Ethics | | |
| Code of conduct (handbooks) for various stakeholders | | |
| Title | Date of Publication | Follow up (maximum 100 words each) |
| Nil | Nil | Nil |
| 7.1.6 Activities conducted for promotion of universal Values and Ethics | | |
| Activity | Duration (from-----to-----) | Number of participants |
| Awareness program about terrorism by Satara police | 4 th Jan 2018 | 104 |
| 7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five) | | |
| 1.No Vehicle Day Institute reserves first Monday of every month to celebrate ‘No Vehicle Day’. On this day; no any student/faculty is permitted to enter by the vehicles. Most preferably the students/faculties use the bicycles on that day. This reduces the pollution as well as it helps to improve the health of the individuals by having the exercise. | | |
| 2.Rain water harvesting Institute has harvested the rain water flowing as waste through the slopes of open land. This has helped to increase the water level in nearby area. | | |
| 3.Tree Plantation In every year in the month of June, institute conducts the activity of tree plantation with the help of NSS (National Social Service) cell. This helps to protect the environment as well as to develop the environmental awareness in between the students. | | |
| 7.2 Best Practices | | |
| Describe at least two institutional best practices Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link | | |
| http://agce.sets.edu.in/bestpractices.php A)Best Practice No 1: 1) Title of Practice: Dattak Yojana (Students adaptation Scheme) 2) Goal: To promote the students from rural background having poor economical background to take higher education. 3) The Context: The corresponding financial support scheme has started on the name of ‘Late Kondiram Gavali’. The main motto for starting this scheme was to give quality technical education to the students from rural backgrounds which are interested to take technical education but due to poor family background they are not able to take admission by paying huge amount of fees. 4) The Practice: Every year institute issues the Dattak forms to the interested students which are from poor family background. The institute scrutinizes the Dattak forms and selects the appropriate students for facilitating the Dattak Yojana. 5) Evidence of success: The students who have admitted through this scheme are taking technical education irrespective of their poor family background. | | |

6) Problems encountered and resources required: For offering the Dattak Yojana, institute has to suffer from the financial loss occurred due to weaving of education fees.

7) Future plans: Institute is planning to accommodate more number of students under Dattak yojana.

B)Best Practice No 2:

1) Title of practice: Availing the book bank facility to group of students at free of cost.

2) Goal: The main goal is to avail the set of reference books to all the students in the institute which are applying for this facility.

3) The Context: In normal practice; book bank facility is given to backward category students by charging some amount. But AGCE avails this facility at totally free of cost to all the students of the institute irrespective of his caste category. Due to this; students who are from poor economical background get benefitted.

4) The practice: The book bank facility is given to a group of students. A set containing books of all subjects is given to group of 5 students at the start of semester. It is then taken back by the library at the end of semester. For availing this facility; the corresponding group of students has to collect the book bank form from the library which consists of details of every student from the group along with details of respective GFM (Guardian Faculty Member) of these students. Later on; this set of books is transferred to corresponding GFM (Guardian Faculty Member) and lastly respective GFM distributes these sets to his student groups.

5) Evidence of success: During this academic year; all the students who have applied for book bank facility are benefitted.

6) Problems encountered and recourses required: Due to multiple uses of the books by the group of the students; the maintenance of the books becomes a major issue.

7) Future plans: Institute is planning to increase the number of books in the book bank to be issued to the group of students.

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust
Provide the weblink of the institution in not more than 500 words

<http://agce.sets.edu.in/ipida.php>

Institute is always adhered to its vision statement which involves the technological as well as sociological aspects.

To remain adhere with the technological aspect; institute has taken two technical competitions namely TECHFEST and PRAYOG. Also to be connected with the sociological aspect; institute has arranged the social camp through NSS (National Service Scheme) cell.

TECHFEST activity was scheduled specially for the students from third year engineering. It was arranged on 28 December and 29 December 2017. The objective of this competition was to provide the platform to the mini projects done by the students in third year engineering. In this competition; more than 300 students were presented their mini projects. For this event; students from other institutes were also participated. All students have presented their unique ideas in front of different judges invited from other institutes as well as industries.

PRAYOG competition was held in the institute on 9 March 2018. The objective to hold this competition was to

provide the platform to the mega projects done by the students of final year. For this competition; near about 288 candidates from the AGCE as well as other institutes were participated. This event was also judged by external delegates and prizes for first three projects were distributed at the end of the event.

Other unique activity done by the AGCE is the organization of social camp through NSS (National Service Scheme). Generally it is observed that engineering graduates do not take any special interest in social activities through NSS. But in AGCE; a batch of 50 students from various departments has accomplished the NSS camp in Bannoli village in Satara district which was held during 2 March to 8 March 2018.

During this week; many social awareness programs were arranged. The guests from various fields were invited for this purpose. Students gave their contribution by teaching to village children, doing cleanliness activity and also by development of roads etc.

8. Future Plans of action for next academic year (500 words)

- 1) Institute has planned to deliver the outcome based education more effectively as compared to last academic year. For this purpose institute has already organised an workshop of OBENBA (Outcome Based Education & NBA Accreditation).With the help of these guidelines teaching faculties are trained enough to carry out the practice of outcome based education.
- 2) Institute has planned to sign more number of MOU's with the various industries as well as premium institutes. With the help of this; sharing of expertise and facilities will be focused prominently. This will help to both the students as well as faculties to be in touch with new technologies as well as research methodologies.
- 3) Every year the institute run the courses offered by IIT with the help of IIT remote centre and NPTEL program. This year; institute will focus to increase the number of courses to be attended by the students. This year institute has planned to have certification of NPTEL courses by more number of students as well as faculties.
- 4) Institute has planned to carry out more number of trainings, workshops and submission of funding proposals so as to have overall upliftment of the institute. All these activities will be carried out with the help of incubation centre.
- 5) From next academic year; the continuous assessment of the teaching faculties will be carried out with the help of weekly report submitted by individual faculties with duly sign of HOD and Principal.
- 6) Institute has planned to encourage more number of faculties to complete their doctorate or at least register for the same.
- 7) Institute has planned to contribute in social activities by arranging the camp in rural area through NSS (National Service Scheme) cell. With the conduction of this camp; various social awareness programs will be conducted with active participation of the student coordinators.
- 8) Institute is planning to go for ISO this year.

Name: Mr. Vishal Hingmire

Name: Dr. Viddhulata Mohite

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC
