



## 7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

### INDEX

| Sr. No. | Description                                                                                            | Pg. No. |
|---------|--------------------------------------------------------------------------------------------------------|---------|
| 1.      | <b>Additional Information</b>                                                                          | 1       |
| 1.1     | Excellence in Academics                                                                                | 1       |
| 1.2     | Efforts for developing promising technical graduates                                                   | 2       |
| 1.3     | Activities for inculcating Society and Value Based approach                                            | 4       |
| 1.4     | Additional Utilization of Resources                                                                    | 5       |
| 2.      | <b>Outcome</b>                                                                                         | 6       |
| 1.1     | Savitribai Phule Pune University has awarded the institute by Best College Award (Professional-Rural). | 7       |
| 1.2     | AICTE-CII Award-GOLD Rating for Linked Technical Institutes 2020.                                      | 8       |

## 1. Additional Information

Amrutvahini College of Engineering, Sangamner established in 1983 is one of its kinds for quality technical education developing young engineers. Recently Savitribai Phule Pune University has awarded the institute by Best College Award (Professional-Rural), and AICTE-CII Award-GOLD Rating for Linked Technical Institutes 2020.

The performance of the Institution in one area distinctive to its priority is explained through following major categories:

- **Excellence in Academics**
- **Efforts for developing promising technical graduates**
- **Activities for inculcating Society and Value Based approach**
- **Additional Utilization of Resources**

### ➤ **Excellence in Academics:**

#### **1. Learning Practice:**

As per the syllabus and concerned subject we decided to allot one lecture per week to every subject for each division in time slot 4.00 to 5.00 pm. Since every subject teacher getting one lecture per week he supposes to revise the main topic taught in particular week. In this season students are supposed to ask queries which were faced while studying that topic at home. Teachers will solve their queries/difficulties by using different teaching techniques. Under this session:



- (i) Teachers used to give questions/problems to students and ask them to solve in front of teacher.
- (ii) Sometimes we also arranged quiz to maintain the healthy learning environment of the class. Due to which students tries to give answers to maximum questions.
- (iii) We also used to arrange surprise open book test to check and improve their reading and understanding skills.

Outcomes: Due to learning practice passing result of the students get improved up to 5 to 10%.

### **2. Use of Cloud and Digital Media:**

The use of digital media is adopted to reduce the paper and postage work. It helped the most and found appropriate during COVID-19 lockdown and unlock conditions. The class notes, PPTs and Laboratory videos are stored at central cloud and can be accessed through local host. Student's database is maintain through Sack-Info ERP software which has reduced the efforts of faculties, supporting staff such as students section, account section, library, central computing facility. Periodically information is sent to the parents regarding student's attendance, class test marks, college events and notices. E-notices, emails have been preferred for official communication.

### **3. Amrut-Meritorious scholarship:**

Amrut-Meritorious scholarship is given to the students who have 9.5 and more S.G.P.A. It is for six month and 1000/- per month is given to eligible student. For continuing scholarship student must maintain 9.5 and more than S.G.P.A. in each semester.

## **➤ Efforts for developing promising technical graduates**

### **1. Centre of Excellence in Department :**

The institute has following centre of Excellence:

- NVIDIA parallel computing (CUDA learning center)
- IBM Academic centre,
- Bigdata Analytics lab,
- REDHAT academy,
- Microsoft students partner,
- ESDS, Cloud computing,
- CISCO networking academy for CCNA and IOT,
- Microchip academy partner,
- Industry interface program for Embedded systems,
- Reliance Jio Home connect skill development,
- Texas Instrumentation,
- OS-3 Technology,
- D'Cygnas Infotech,
- AAU Robotics Process Automation,



- diTrinity Product Life Cycle management,
- E-yantra robotics centre,
- Visinory Learning Community of India,
- MechTol project Based Learning,
- Open Source laboratory,
- Fire and Security association of India,
- Indian Plumbing Association-Institute level Membership
- Association of Consulting Civil Engineers, Bangalore \*
- XEN STACK Pvt.Ltd.

2. **SAKURA and Language Lab:** ‘SAKURA’ Exclusive Language lab for Japanes is created for learning Japnies Language. Training activities are organized that includes Japanese, German Language training sessions, company specific activates. Japanese certified students have more priority for placements during certain companies. Previous few years shows better acceptance of students due to language proficiency. Students of FE and BE are honed in Listening, Speaking, Reading and Writing and Communication Skills in the Language Lab. The lab is equipped with ORELL – ODLL software on 25+1 computers with headphones and webcam. The lab also equipped with GOLS SOFTSKILLS LAB for unlimited user and GOLS LANGUAGE LAB for 50 user.

**3.1 Robotics Club :**The Robotics Club of AVCOE strives to stimulate interest in robotics among the students of the institute (Multi-disciplinary aspect). Besides making a serious venture to spread knowledge on Robotics and its diverse applications, it is exemplary virtue comprising every learning and curious faculty and students. AVCOE Robotics club is part e-yantra robotics lab initiative by IIT Powai, Mumbai and Industrial robotics lab, department of Production Engg.,The Robotics society (TRS) of India Student’s chapter under “AVCOE Robotics club” is started in 2018-19 on 24.05.2019. The Robotics Society (TRS), India empowers technical institutions in India to start authorized TRS Student Chapters and to organize and mentor activities related to Robotic Science in the respective institutes. This student chapter care for mentoring the interested students via student’s networking and also for promoting knowledge sharing activities in the area of Robotics.

**3.2 IEEE Student’s Branch:** Electronics and Telecommunication Engineering department has following Students Branch Chapters for activities and industrial projects to prepare the students for a career after their Bachelor of Engineering.:

- IEEE Microwave Theory and Techniques (MTT-s) Students Branch Chapter
- IEEE Antenna and Propagation Society (APS) Students Branch Chapter
- IEEE Special Interest Group on Humanitarian Technology (SIGHT) Chapter

**3.3 Aeronautical society of India (AeSI), Nashik chapter :** Under this chapter four days staff Training Program organized for the staff member of AVCOE at HAL, Nashik under Aeronautical society of India, Nashik branch. The training was o r g a n i z e d on topic “Aviation Technology” from 5<sup>th</sup> June to 8<sup>th</sup> June 2018. The training was related to the different aspect of aeronautical sector. Different expert share their views related to the topic. Regular expert sessions from HAL staff are organized for students across all the disciplines to

get acquainted with current technological development as well as role towards nation development.



### ➤ Activities for inculcating Society and Value Based approach:

1. **Unnat Maharashtra Abhiyan (UMA)/ Unnat Bharat Abhiyan (UBA):** The institute is having active Unnat Maharashtra Abhiyan (UMA)/ Unnat Bharat Abhiyan (UBA) units. Third Party Assessment of Avankhed, Nal-PaniPuravathaYojana, Dindori, Nashik – RWSS (Rural Water Supply Scheme):Scheme Capacity: 0.076 MLD

UMA aligns closely with the **Unnat Bharat Abhiyan (UBA)** mechanism of the Ministry of Human Resource Development (MHRD), Government of India (GOI), whose vision is to bring about "transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India. AVCOE has successfully completed few projects through Ideas, Active Participation with Student engagement and Integration with existing projects.

Following UG projects are completed under UMA: (Year 2018-19)

- a. Assessment of National Water Supply Scheme for Shahapur Village, Tal – Sinnar, Dist – Nashik, Maharashtra.
  - b. Rejuvenation of JAM River watershed (UMA), NandurShingote Village, Tal – Sinnar, Dist – Nashik, Maharashtra.
  - c. Third Party Assessment of JSA work at SangamnerTaluka (Sakur Village, Tal – Sangamner, Dist – Ahmednagar, Maharashtra.)
  - d. Assessment of Rural Water Supply Scheme ForSamanapur Village, Tal – Sangamner, Dist – Ahmednagar, Maharashtra.)
  - e. Analysis of Electrical Infrastructure for Energized Irrigation.at 33/11 KV Substation, Nimon Village, Tal – Sangamner, Dist – Ahmednagar, Maharashtra.
2. **Innovative Rural Based Projects and Mini Projects:** The final year students are encouraged & guided to undertake innovative projects such as a cost-effective Milking Machine, low cost Bamboo House etc.The First, Second & Third year students are also guided to design, build & test Mini Projects.
    - a. Innovative Projects are undertaken by Faculties regularly.



- b. State of art software and equipment are available in the department for research work.
  - c. Students are encouraged and supported financially for participating in national level competitions like smart India Hackathon, SAE-BAJA (TIFAN, M-BAJA, E-BAJA, Solar, Go-Cart, Efficycle), Aero design Challenge and they won the prizes.
  - d. Students & faculties are encouraged to participate in various project competitions such as Avishkar.
  - e. Department conducts intercollegiate national level technical symposium, every year.
3. **Social, Nature Awareness Program through Trekking-:** One day trekking was organized for F. E. Students every year in winter season. Due to motivation of our Principal Dr. M. A. Venkatesh, one day trekking was organised for the students to the nearby hill station or fort. During trekking only one division (66 student's maximum) will visit to one place in that particular day. One trekking team used to prepare, in that team Class teacher, tutor teachers, one ladies staff and expert trekkers accompanied. For the trekking batches of the students used to create and specific particular students will be present in the allotted batch along with tutor teachers.
4. **Soil Health Card for farmers:** The Civil department is providing social services such as Soil health card to farmers, which gives the idea about N, P, K, pH and salt concentration field survey for the rural area.
5. **Blood Donation and Blood Helpline:** The institute has database of all students and staff blood groups. The facility of blood donation is extended to staff, students, alumni and their family members.

### ➤ **Additional Utilization of Resources**

- 1. **Examination center for other agencies:** Institute is providing computing facilities for conducting online examination like JEE, MH-CET, IBPS, SPPU Examinations etc.
- 2. **Career Guidance for 12<sup>th</sup> Science**  
The Career Guidance Classes are conducted for 10th & 12th Class students of nearby junior colleges by the faculties of all departments.
- 3. **Department Services and Consultancy**  
The other institutes can perform practical's or utilize resources and utilize unique machinery available in the institute like Boiler, Vector Network Analyzer.
- 4. **Extended Time for student's Counseling**  
Extra half an hour is provided for students after regular theory /practical hour. During this time slot students interact with the concerned mentors/tutors to resolve their academic as well as personal problems.



### Outcomes

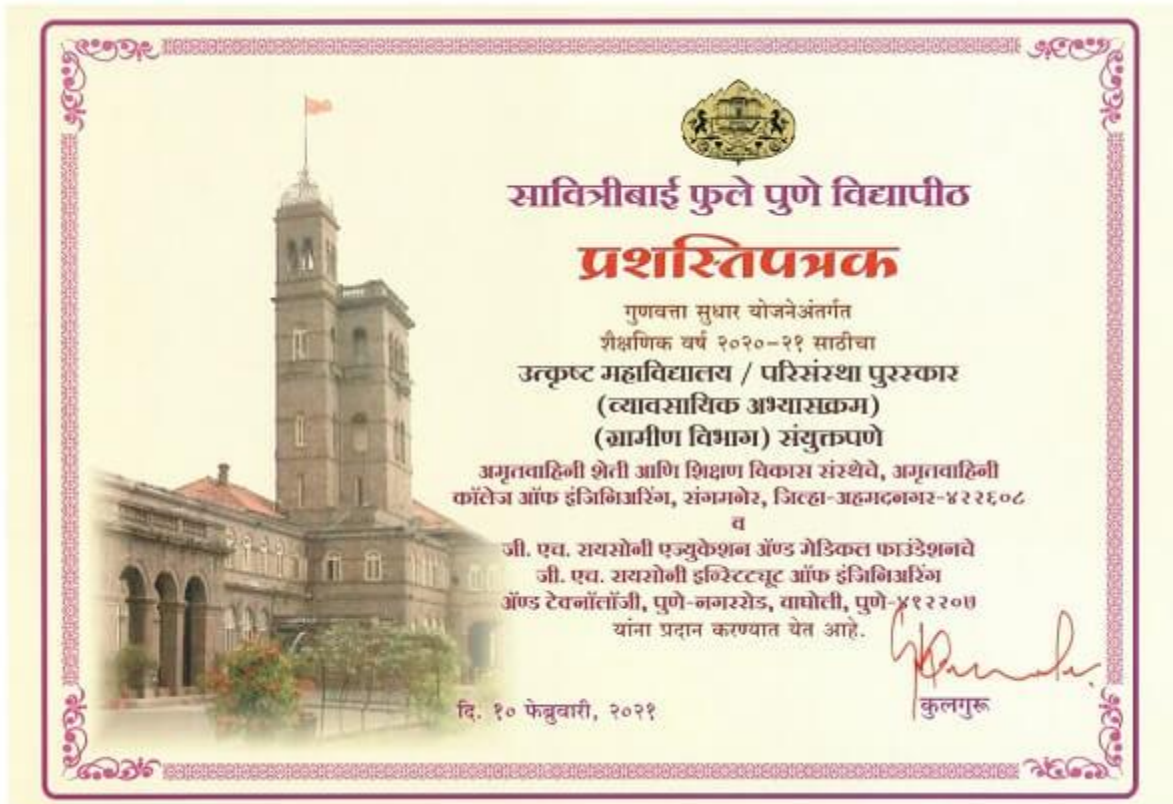
- Vision of the Institution is, to create able engineers and technocrats for the benefit of mankind and nature through continual excellence in science and technology.
- Institution consistently inspires students and provides platform for technical skill development, multidisciplinary project development, Entrepreneurship skill development, to nurture ethical and human values, work as a team member.
- Institution motivates and support students to participate in various National and International competitions like Hackathon, Project Expo, SAEINDIA BAJA, ROBOCON, e-Yantra competition etc. Consistent participation and achievements in such events proves distinctiveness of the Institution.
- The institute is committed to bring all round development of the students. The institute ensures enthusiastic participation of the students in annual MEDHA cultural festival. The MEDHA cultural festival is one of the biggest annual cultural events in North Maharashtra region. During the past MEDHA cultural festivals, several prominent personalities, successful entrepreneurs, distinguished alumni, businessmen, industrialists and celebrities have visited the campus and have shared their success stories and delivered motivational speeches to our students.
- The institute has an excellent track record of placements and its alumni are giving significant contributions in diverse fields of engineering and other professions.
- Students learn ethics, team building, technical skills, presentation skills, project management and financial management.
- Institution encourages students to participate and offers financial support to participate in such events.
- Institution provides them the opportunity to join internships in renowned industries.
- Institute provided inclusive technical education so that a deserving student is not denied an opportunity for technical education solely on socio economic constraints.
- Institute provided all inclusive education to develop skills, knowledge ethics and values through well-structured curricular and extracurricular activities.
- Institute Offers “Amrut-Meritorious Scholarship” Rs. 6000/- per semester as financial support to students with 9.5 and more CGPA in examination of SPPU Pune.
- Train the students to be ready for the corporate world and promote entrepreneurship.
- The academic vigilance Committee includes Principal and Head of Departments.
- Disciplinary Committee, Ant ragging Committee to look into the in disciplinary Acts & Ragging.
- Institute has installed own Solar Electric Power Station to fulfil the electricity requirement of the campus.
- The NSS cell is active in order to imbibe strong Social values in our students.



## Amrutvahini College of Engineering, Sangamner

- The institute takes conscious efforts to create awareness about energy conservation and renewable energy usage among students.
- The institute celebrates birth anniversaries of National Hero.
- The Gender Equality cell is very active to promote gender equality in Co-education.
- Institute campus is green campus.
- Institute has installed Bio-gas plant to manage food waste.
- Institute provides open access E-journals
- Student can search the books through Web-OPAC in central library of Institute
- Ample number Of Industry Institute Program conducted in Institute
- Eminent academicians and scientists visited to the Institute
- Miss Priyanka Malunekar has been awarded “Gold Medals” for securing highest number of marks and stood FIRST at BE Electronics Engineering in SPPU Pune, 2017-18 Batch.
- The Institute has been awarded by AICTE National level CLEAN & SMART CAMPUS Awards-2019 for the BEST PRACTICES followed in our Institution.
- Various Faculty members of Electronics Engineering Department are appreciated by Texas Instrument India University Program.

**Savitribai Phule Pune University has awarded the institute by Best College Award (Professional-Rural).**





AICTE-CII Award-GOLD Rating for Linked Technical Institutes 2020.

