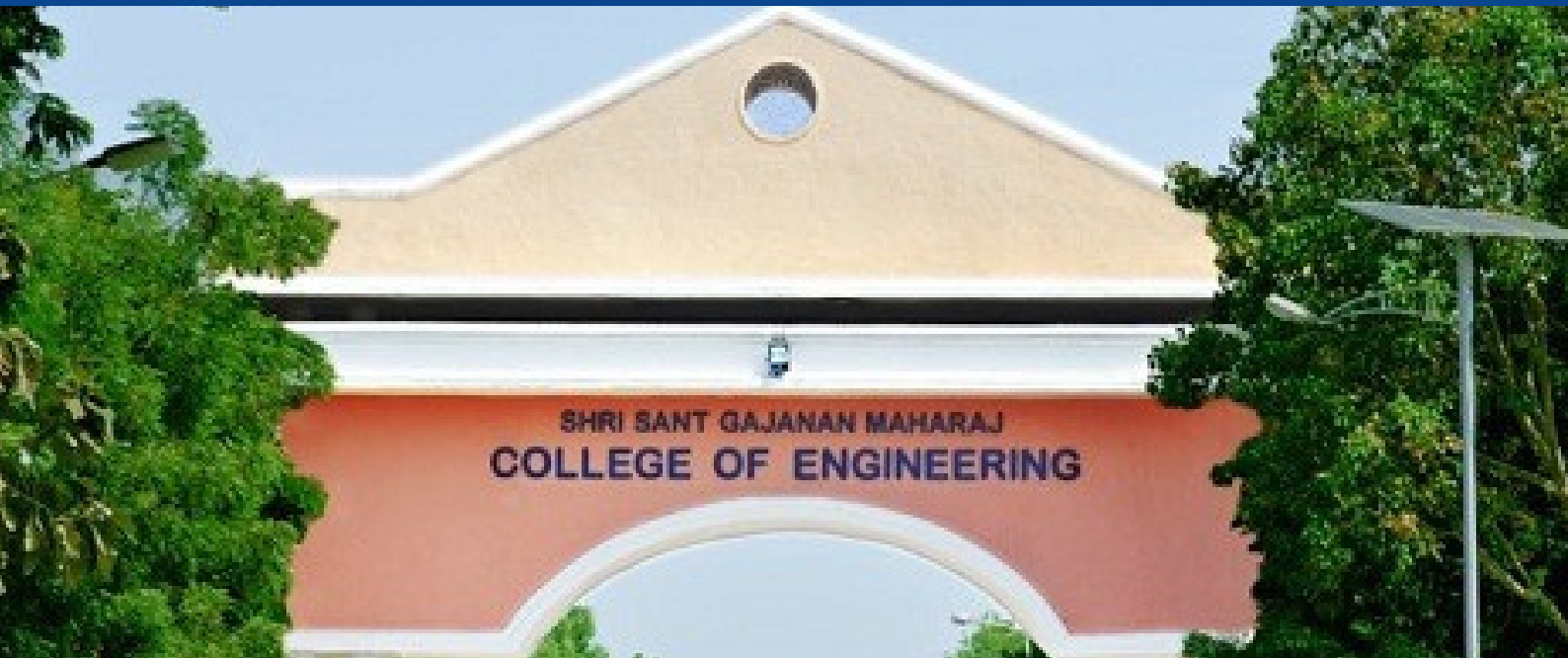


# NEWSLETTER

— EDITION 10 VOL.2 —

2024-25



## SSGMCE

### VISION

To impart quality education and excel in Electronics and Telecommunication Engineering research to serve the global society

### MISSION

- M1: To develop excellent learning center through continuous interaction with Industries, R&D centers and Academia.
- M2: To produce competent, entrepreneurial and committed Electronics and Telecommunication Engineers.
- M3: To develop state-of-the-art infrastructure, centers of excellence and to pursue research of global and local relevance.
- M4: To inculcate ethical, spiritual and human values to serve the global society.

## ABOUT DEPARTMENT

The Department of **Electronics and Telecommunication Engineering** is one of the major departments of **SSGMCE, Shegaon** established in 1983 offering programs: Under Graduate, Post Graduate and Ph.D. It is affiliated to Sant Gadge Baba Amravati University, Amravati, recognized by AICTE, New Delhi and approved by DTE, Maharashtra. The Undergraduate program of the Department of Electronics and Telecommunication Engineering has the recognition of being accredited 05 times by NBA, AICTE, New Delhi. The post graduate program was also accredited once by NBA, AICTE, New Delhi.

All the laboratories in the department are well equipped to run the program specific curriculum prescribed by the University. All laboratories are recognized and approved as research laboratories for Ph.D. work by SGB Amravati University.

**Dr. D. D. Nawgaje**

**Head, Dept. of Electronics and Telecommunication Engineering.**

# VALUE STATEMENTS

**1**

Explores to unleash one's potential through proactive awareness, research attitude, continuous learning, accountability & innovation in every sphere of life.

**2**

Each individual at SSGMCE is a firm believer of being accountable to one's own role, goal, and development. We all follow the rules and regulations, and our interactions with others are refined, power and organized.

**3**

Build trust through honesty, integrity, consistency, transparency & keeping promises.

**4**

SSGMCE Provide a system to incorporate & sustain holistic development (Physical, Mental, Social, Emotional & Spiritual)

**5**

Inculcate innovation / creativity through resourcefulness, sharing and employing new ideas, possibility thinking.

## WHAT WE VALUE AT SSGMCE

### 1) **Personal Excellence**

What it means? It is an ability to fully unleash and utilize one's potential in all walks of life. It is to improve your performance consistently and continuously so that you can improve every aspect of your life.

#### **Key Behaviour Indicators:**

- Knows one's passion, strengths & weaknesses.
- Has SMART goals in place.
- Setting benchmarks for self and raising them from time to time.
- Proactively engages in learning through networking with other universities & Industry related to your field of work across different countries.
- Steps outside of one's comfort zone to do something new & creative.
- Approaches situations with scientific mind set.
- Builds a trusted connection with a mentor and seek advice when needed.
- Be brand ambassador for SSGMCE to the external world.

#### **Value Statement:**

Explores to unleash one's potential through proactive awareness, research attitude, continuous learning, accountability & innovation in every sphere of life.

## **2) Accountability**

What it means? Accountability is accepting responsibility for your actions and being willing to own the outcomes of your choices, decisions, and actions.

### **Key Behaviour Indicators:**

- Takes responsibility for all work activities and personal actions;
- Follows through on commitments; implements decisions that have been agreed upon;
- Maintains confidentiality with sensitive information;
- Acknowledges and learns from mistakes without blaming others;
- Recognizes the impact of one's behavior on others.

### **Value Statement:**

Each individual at SSGMCE is a firm believer of being accountable to one's own role, goal, and development. We all follow the rules and regulations, and our interactions with others are refined, proper, and organized.

## **3) Trustworthiness**

What it means? Trustworthiness is the ability of a person to be relied on as honest or truthful.

### **Key Behavior Indicators:**

- Respect self and others.
- Walk your talk.
- Maintains confidentiality.
- Maintain consistency therefore they are reliable and resourceful to the people.
- Keep promises/Commitments
- Value people's time and efforts.
- Express gratitude to their family, friends & co-workers; support and encourage them.
- Be positive and bring out the best in self & others.

### **Value Statement:**

Build trust through honesty, integrity, consistency, transparency & keeping promises.

## **4) Holistic Development**

What it means? Holistic development means development of a person in all dimensions : physical, Mental, Social, Emotional, and spiritual, to unleash his/her potential and is capable of facing the demands and challenges of personal & professional life.

### **Key Behaviour Indicators:**

- Plans & Invests time in regular physical fitness exercise like sports, gymnastics, yoga.
- Plans & proactively invests time to update his knowledge & skills related to his personal & professional role.

- Plans & invests time in networking & meaningfully contributing to the relationships personally & professionally important through regularly communicating, sharing knowledge & resources., working in a team through coordination and cooperation., Understands and knows to manage emotions of self & others.
- Thinks beyond self and plans & invests time for community development.
- Engages in practices which are environment friendly. 5. Optimally uses natural resources like water, electricity.

**Value Statement:**

SSGMCE Provide a system to incorporate & sustain holistic development( Physical, Mental, Social, Emotional & Spiritual)

## 5) Creativity & Innovation

What it means? The ability to go beyond traditional ideas, rules, patterns, relationships, or the like, and to create meaningful value adding new ideas, forms, unconventional methods, interpretations etc.

**Key Behavior Indicators:**

- Develops new useful ideas/ approach / programs that prove to be effective.
- Thinks outside the box.
- Takes 'smart' risks including trying new and different ways to get work done.
- Embraces diverse perspectives to promote or nurture innovation.
- Generates and employs original ideas for tackling both simple and complex problems.  
Fosters interdisciplinary / trans-disciplinary work.

**Value Statement:**

Inculcate innovation / creativity through resourcefulness, sharing and employing new ideas, possibility thinking

## **FACULTY PUBLICATIONS IN JOURNAL.**

- **Dr. R. S. Mahamune, Dr. N. S. Dharmale** publishes a paper on **Application of Fe-doped Brookite TiO<sub>2</sub> as ETL in Lead-Free Perovskite Solar Cells** which is submitted on **1<sup>st</sup> of March 2025**.
- **Mrs. Ashwini Deshmukh, Ms. Komal Vyas** publish a paper on **"Blockchain Technology in Healthcare Application"** at **The Indian Journal of Technical Education**, Volume 48, Special issue, Number 1, **February 2025**, ISSN : 0971-3034, **Published by ISTE**.
- **Dr.S.B.Patil, Dr.D.P.Tulaskar, Mr. S.G.Nemane** publish a paper on **Design and Analysis of Optimized Multiband Microstrip Planar Patch Antenna for Wireless Applications** at **The Indian Journal of Technical Education**, Volume 48, February 2025, Special issue, Number 1, pp 145-150, ISSN : 0971-3034, **Published by ISTE**.
- **Dr. Manish N. Tibdewal** publish a paper on **Design of an Iterative Model Integrating Bacterial Foraging Optimizer and Q-Learning for Enhanced Congestion Management in Wireless Networks** at **Frontiers in Health Informatics** -ISSN-Online: 2676-7104.

## **FACULTY PUBLICATIONS IN BOOKS.**

- **Dr. R. S. Mahamune, Dr. S. H. Tulaskar, Dr. N. S. Dharmale** publish a book on **The Multi-scale Wavelet Approach to Remove the Eyeblink Artifacts from EEG Signals** at **Lecture Notes in Electrical Engineering**, vol 1237. ISBN: 978-981-97-6801-1. Online ISBN 978-981-97-6802-8. **06 February 2025. Springer**
- **Dr. N.S.Dharmale, Dr. R. S. Mahamune, Mr. S.Chaudhury** publish a book on **Application of OLCAO-GGA and OLCAO-MGGA Techniques for Investigating Properties of TiO<sub>2</sub> (2025-02-12)** at **Lecture Notes in Electrical Engineering ((LNEE,volume 1202))**,Electronic ISSN 1876-1119, Print ISSN 1876-1100, **First Online: 13 February 2025. Springer**

## **FACULTY PUBLICATIONS IN CONFERENCE.**

- **Dr.Neerja Dharmale, Dr.Rupesh Mahamune** publish a paper on **Precision Cotton Health Classification: A Deep Learning Approach for Disease Detection** in conference of **ANRF Sponsored ICET 2025 Conference 21-22 February, ENERGY CENTRE, MANIT**
- **Dr.Neerja Dharmale, Ashwini Pohare, Dipali THokal, Nisha Pimple, Anuja Lande** publish a paper on **Early Detection of Bollworm Infestation in Cotton Plants Using Convolutional Neural Networks** in the conference of **ANRF Sponsored ICET 2025 Conference 21-22 February, ENERGY CENTRE, MANIT.**
- **Dr. K. T. Kahar, Tejas Kale, Sahil Mathurkar, Pratham Kale** publishes a paper on **Drone-Based Weirs Inspection and Analysis for Enhancing Infrastructure Monitoring of Water Resources in smart cities** in the conference of **ANRF Sponsored ICET 2025 Conference 21-22 February, ENERGY CENTRE, MANIT.**
- **Dr. R. S. Mahamune, Pravara Nemade, Sakshi Suradkar, Sakshi Dandale, Srushti Naphade, Smruti Gangane** publishes paper on **Classification of EMG-based Hand Gestures using Time and Frequency Domain Features** in **International Conference on Emerging Smart Computing & Informatics 2025 (5, 6 & 7 March 2025). IEEE**
- **Mrs. Ashwini Deshmukh, Dr. Devesh Nawgaje, Ms. Komal Vyas** publishes a paper on **Exploring the role of Machine learning in Advancing Crop Disease Detection** in the conference of **The 3rd International Conference on Futuristic Technologies (INCOFT) , 22-23 February 2025** the Paper Will be Published soon on Scitepress Digital Library.
- **Ms. Komal Vyas, Dr. Devesh Nawgaje, Mrs. Ashwini Deshmukh** publishes a paper on **Exploring the potential of Artificial Intelligence in Oral Diseases** in **The 3rd International Conference on Futuristic Technologies (INCOFT) , 22-23 February 2025**
- **Mr. H.B.Patil, Shailesh Deshmukh, Dhanashri Vade, Madhavi Mahabudhe, Govind Dhande, Vaibhav Girnale** publishes paper on **Indoor Navigation System For Visually Impaired Using Beacon Technology** in **ANRF Sponsored ICET 2025 Conference 21-22 February, ENERGY CENTRE, MANIT.**

## **Patent by Faculty**

- **Kamlesh Kahar, Tejas Kale, Sahil Mathurkar, Pratham Kale, Santosh Patil, Shrijeet Pagrut** successfully published a patent on **"A DATA ANALYTICS CONFIGURATION FOR AN UNMANNED AERIAL VEHICLE"**



## Faculty Achievement



Congratulations! to **Dr. S. P. Badar** on achieving your **Ph.D.** A remarkable milestone and a testament to your dedication and hard work!

## FACULTY Signed MOU's

- Mr. V.K. Bhangdiya from the ENTC department signed a Partnership/MoU with Adolf Solutions Pvt. Ltd., Pune in 2025 to promote academic and industry collaboration.
- Mr. A.N. Dolas from the EXTC department signed a Partnership/MoU with Daccess IT-INFRA Pvt. Ltd., Pune in 2025 to enhance academic and industry collaboration.
- Dr. S.P. Badar from the EXTC department signed a Partnership/MoU with IRAVAN Technologies, Pune in 2025 to strengthen academic and industry collaboration.
- Dr. D.D. Nawgaje and Mrs. K.S. Vyas from the EXTC department signed a Partnership/MoU with SSG Embedded, Nagpur in 2025 to promote academic and industry collaboration.

## Departmental committee's Achievement

- IEEE COMSOC Chapter received \$200 funding for Student Activity from COMSOC SBC Funding Initiative.
- IEEE GRSS Affinity group received \$2,100 funding from IEEE global.
- The departmental committee ESSA won the Best Decoration and Most Participation awards in Pursuit 2025, showcasing their creativity and enthusiastic involvement in the event.

## STUDENT ACHIEVEMENTS



**Mr. Rudresh Latore (2U)** has been awarded the prestigious **Colour Coat in Badminton**, recognizing his outstanding performance and dedication to the sport.



**Sahil Mathurkar, Shubham Suradkar, Hrishikesh Kakade and Yash Raut** won First prize and cash reward of **10000** at the **ISTE Approved State -Level Project Exhibition**.



## PLACEMENT DATA OF ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPT. 2024-25

Sr. No.	Name Of Company	Date	No. Of Students Placed	Name Of Students	Package Offered in Lakhs P.A
1.	Bristlecone India Limited, Mumbai	08/10/2024 & 15/10/2024	01	1.Niharika Dagaonkar	4.25 LPA
2.	Micropro Software Solutions Ltd., Nagpur	18/11/2024	05	1.Mangesh Ghorade 2.Nisha Pimple 3.Om Ingle 4.Tejaswi Deshmukh 5.Vivek Narkhade	3.00 LPA
3.	Fox Solution Pvt. Ltd., Nashik	18/10/2024 27/01/2025	01	1.Samiksha Wagh	4.02 LPA
4.	Eagle Byte Solutions Pvt. Ltd., Nashik	26/11/2024	01	1.Akanksha Tale	3.20 LPA
5.	Quality Kioask Technologies Pvt. Ltd., Pune	07/01/2025	01	1.Anuja Lande	2.50 LPA
6.	Cadence India Limited, Pune	21,22/01/2025	02	1.Sanchit Thakare 2.Shradha Gawande	14.00 LPA
7.	SCOPE T&M Pvt. Ltd., Pune	05/02/2025	04	1.Amit Risodkar 2.Rutvij Hiwrale 3.Vishad Pandav 4.Yash Dalal	3.00 LPA
8.	SM Technologies Pvt. Ltd., Nagpur	13/03/2025	01	1.Abhay Sharma	3.00 LPA
9.	Zoho Corporation, Nagpur	15/10/2024	01	1.Shreyash Warganywar	7.00 LPA

# STUDENT ACTIVITY

## WORKSHOP

### 1) Skill Development Program on Automation and Robotics

A 3-day Skill Development Program on Automation and Robotics was held from 30th Jan to 1st Feb 2025 at SSGMCE, covering robotics, automation, and career guidance. It was organized by the EXTC Department and ISTE.



### 2) JUNNOON



JUNNOON, a motivational workshop by ESSA on 7th March 2025, inspired 167 students through powerful talks by Bipin Mahore, Rajat Wankhade, and Tanvi Kakad, encouraging confidence and goal-setting.

### 3) PCB Design Workshop

The PCB Design Workshop was held on 11th-12th January 2025 at SSGMCE, Shegaon, organized by the Students Activities Committee, IEEE Bombay Section and facilitated by the IEEE team, SSGMCE, with 44 students participating.



#### 4) Technovation 2025

**Technovation 2025**, held on **7th March** at SSGMCE Shegaon, was organized by the IEEE Bombay Section and facilitated by the **IEEE SSGMCE team**. A total of 37 teams participated, each showcasing **innovation and technical skills**.



#### 5) Digital Design using Verilog



The workshop on **Digital Design using Verilog** was conducted from **7th to 11th April 2025** at SSGMCE, Shegaon. Organized by the IEEE Bombay Section and facilitated by the **IEEE SSGMCE team**, the event engaged 27 students in hands-on learning of **Verilog-based digital system design**.

#### 6) AI Workshop with Intel OpenVINO™ Toolkit

The **AI Workshop with Intel OpenVINO™ Toolkit** was held on **24th July 2025** at SSGMCE, Shegaon. Organized by the IEEE Bombay Section and facilitated by the **IEEE SSGMCE team**, the workshop provided hands-on AI experience to **103 students** using the Intel OpenVINO™ Toolkit.



## 6) Design, Fabricate & Program an ESP 8266 Microcontroller Board

"A 4-day workshop on **“Design, Fabricate & Program an ESP 8266 Microcontroller Board”** is scheduled from 22nd to 25th March 2025, 11:00 AM to 6:00 PM at **DIGITAL\_FABLAB**. The workshop is coordinated by **Prof. V. S. Ingole** and will be conducted by **resource person Mr. Shreyas Shah from LecrinTech, Pune.**"



## 8) Fundamentals of Research Methodology

"The 6-day workshop on **Fundamentals of Research Methodology** (28th April – 3rd May 2025) will cover key aspects such as **research methodology overview, literature review, qualitative & quantitative research, problem formulation, data collection, PCA tools, thesis writing, research ethics, IPR, and publishing.** Sessions will be conducted by eminent experts from SSGMCE and other reputed institutions, under the coordination of the **R&D Cell.**"





## • EVENTS

### • **Wellness Her Way**

The **Wellness Her Way workshop** was conducted on **16th January 2025** at SSGMCE, Shegaon, organized by the Students Activities Committee, IEEE Bombay Section and facilitated by the **IEEE team**, SSGMCE, with **40** students attending.



### • **Advance Automation Awareness**



The **Advance Automation Awareness workshop** was held on **16th January 2025** at SSGMCE, Shegaon, organized by the Students Activities Committee, IEEE Bombay Section and facilitated by the **IEEE team**, SSGMCE, with **50** students participating.

### • **Alumini Faculty Student Interaction Session**

The **Alumni-Faculty-Student Interaction Session** was held on **25th January 2025** from **11 AM to 1 PM** at the **New Auditorium**, featuring SSGMCE EXTC alumni as speakers. The session engaged **210** students in insightful discussions on **career paths and real-world experiences**.



### • **ASYLUM**



**ASYLUM**, a student engagement event, was held on **7th March 2025** from **6 PM to 10 PM** at **Swadhyay Kaksh**, with participation from **80** students, fostering creativity and collaboration.

## GATE QUALIFIED STUDENTS

Sr. No.	Name Of The Student	Class	Valid Score	Category
1.	SAURABH KHUSHAL GAIKWAD	3U2	23	OBC

## BEST PROJECTS AWRDED BY DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

Sr. No.	Title Of Project	Award/Reward	Name Of Students	Name Of Guide
1	Child Vaccination and Reminder	1st	1.Abhay Sanjay Sharma 2.Ayush Rajendra Mishra 3.Ku. Samruddhi Rajesh Sawarkar 4.Ku. Srushti Sunil Rindhe	Mr. V. K. Bhangdiya
2	Design & Analysis of Microstrip Patch Antenna for C-Band and X-Band	1st	1.Prasad Suresh Deshmukh 2.Shreyash Pavan Wargantwar 3.Ku. Jyotsna Vijay Sondkar 4.Ku. Vaishnavi Prabhakar Shejole	Dr. D. P. Tulaskar
3	Smart Neonatal Incubator for Temperature and Humidity Regulation	2nd	1.Ku. Dolly Ravikumar Israni 2.Ku. Maithili Umesh Raut 3.Aadesh Sanjay Abhyankar	Mr. V. M. Umale
4	Design of Electronic module for fitness, health and safety in smart shoes	2nd	1.Arshadmatin Abukalam Shaikh 2.Ku. Prachi Avinash Untawale 3.Aryavart Nilesh Dahrenkar 4.Om Gajanan Ingle	Dr. S. B. Patil

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