



SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

DEPARTMENT OF APPLIED ELECTRONICS

(Faculty of Science & Technology)

Master of Science (M.Sc. Applied Electronics) Full-Time Two-Year Degree Programme
NEPv25 with Exit and Entry Option

Scheme & Syllabus

[https://sgbau.ac.in/Syllabus-Curriculum\(CBCS\)2022-23/NEPv23%20M%20Sc%20Applied%20Electronics.pdf](https://sgbau.ac.in/Syllabus-Curriculum(CBCS)2022-23/NEPv23%20M%20Sc%20Applied%20Electronics.pdf)

ADMISSION FOR (2025-26)

SEMESTER-I

- Research Methodology & IPR
- Electronic Devices & Ckts
- Communication Engg.
- Data Science & NN
- Professional Elective:**
 - Digital Communication
 - Instrumentation
 - Biomedical Engg.
- Practicals:**
 - Electronic Devices & Ckts
 - Communication Engg.
 - Data Science & NN
 - Practicals on Profession Elective

SEMESTER-II

- Analog & Digital ICs
- Microcontroller
- Digital Communication
- Professional Elective:**
 - Smart Sensors
 - Artificial Intelligence
 - Remote Sensing
- Practicals:**
 - Analog & Digital ICs
 - Microcontroller
 - Electronic Workshop
 - Practicals on Profession Elective

SEMESTER-III

- Digital Signal Processing
- Embedded System Design
- Communication Engg.
- Professional Elective:**
 - Machine Learning
 - Speech Processing
 - Text Mining
- Practicals:**
 - IOT
 - Digital Signal Processing
 - Object oriented Prog.in C++
 - Practicals on Profession Elective

SEMESTER-IV

- Microwave Engg.
- VLSI Design
- Optical Fiber Communication
- Professional Elective:**
 - Image & Video Processing
 - Generative Deep learning
 - Pattern Recognition
- Practicals:**
 - Microwave Engg.
 - VLSI Desing
 - Python Lab.
 - Practicals on Profession Elective

Activities: On Job Training, Internship/Apprenticeship; Field projects Research Project Phase I and Phase II

Eligibility criteria

B.Sc. with (Physics/ Chemistry /Maths/ Computer Science /Electronics Instrumentation) or BCA with Mathematics at 10+2 Level OR Bachelor of Computer science or Equivalent degree of any other statutory University Minimum 45 % marks at B. Sc. for GENERAL(OPEN) Category Minimum 40 % marks at B. Sc.for reserved category

Employability Potential of the Programme

M.Sc. Applied Electronics programme focuses on applied Sciences and Engineering courses.

RESOURCES

- Qualified and Experience Teachers
- Well Equipped Laboratories
- Computer Lab.
- Research Lab.
- Workshop for Essential Learning
- Internet and Wi-Fi
- Smart Classrooms
- Departmental Library having 1000+ Books

PAST PLACEMENT

MNCs including but not limited to Oracle, Tektronix, Infosys, TCS, Cognizant, Persistent, Sciencetech, IBM, Marvell, BSNL, Tech Mahindra, Syntel, L&T infotech, Videocon, CDAC, Samsung, Robotics Pvt. Ltd., Jindal Saw Ltd., Electronics Art Pvt.Ltd.etc.

OPPORTUNITIES

Healthcare, Automation, Automotive, Robotics, and Computer IT, Several jobs in Electronics Sector, Electrical Devices, Gadgets, Control Systems, Defence Industry, Real Estate, Construction, Electronics Industry, Marine Industry, Oil and Gas Industry, Power Generation Industry, Railways, Marine, Telecom Industry, Acoustics, Defence, Medical Instruments, Mobile Phones, Nanotechnology, Radio and Satellite Communication, etc. and many more.



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