



SIPNA

**COLLEGE OF ENGINEERING
AND TECHNOLOGY, AMRAVATI**

Infront of Nemani Godown, Badnera Road, Amravati - 444701 (Maharashtra)

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Information Brochure

About the Society

Sipna Shikshan Prasarak Mandal, established in the year 1995, aims at imparting higher & technical education to the people of the region. Since its inception, SSPM has been successfully running undergraduate and postgraduate courses in emerging areas through Sipna's Arts, Science & Commerce college, Chikhaldara, Sipna College of Engineering & Technology, Amravati and Sipna School of Planning and Architecture, Amravati affiliated to Sant Gadge Baba Amravati University, Amravati. We are successfully conducting various undergraduate, post-graduate & doctoral research Engineering & Management programmes over last two decades.



SHRI. JAGDISH M. GUPTA
President, S.S.P. Mandal
Ex. Minister (M.S.)



DR. SANJAY M. KHERDE
Principal
Ph.D. (Mechanical Engg.), DBM, PGDMM, MIRPM
Experience : Teaching - 30 Years, Industrial - 1 Year

VISION

To provide quality Professional education & conducive environment to students to emerge as a model proficient institute.

MISSION

- To create scholarly and vibrant environment for professional excellence.
- To contribute to advancement of knowledge in basic and applied areas of engineering and technology.
- To be an institute of choice in the region by developing, managing and transferring contemporary technologies.
- To build mutually valuable terms with industry, society and alumni.



About the Institute

Sipna College of Engineering and Technology, Amravati is a highly commendable institute, occupying place of pride amongst the premier technical institutes of Maharashtra imparting high quality education in engineering and technology to meet the requirements of this fast changing world. We are proud to have experienced and renowned faculty members with state of the art infrastructural facilities. It is our solemn responsibility to provide holistic education and provide learning environment that is second to none.

DEPARTMENTS

Our emphasis will be directed to work synergistically to step towards quality education and technical knowledge to enhance technical skills and ethical values for global employment.

Computer Science and Engineering

Computer Science and Engineering deals with the design, implementation, management of information of both hardware and software processes. Computer Science Engineers are having challenging opportunities in Database management, Information Technology, Embedded system, Telecommunication, Forensics, Maintenance, and almost all the other industries in this sector. The computer industry has witnessed phenomenal growth in the recent years. One can pursue higher education with vast choices like Data Mining, Artificial Intelligence, Distributed system, Computer designing, Human computer Interaction, visual computing, Robot Designing etc.

Key Laboratories -

- Data Structure Lab.
- Operating System Lab.
- Object Oriented Programming Lab.
- Web Technology Lab.
- System Software Lab.
- DBMS Lab.
- Software Engineering Lab.
- Project Lab.-1 (UG)
- Project Lab.-2 (PG)
- PhD Research Lab.
- Computer Programming Lab.
- Digital Electronics Lab.
- Programming Methodology Lab.
- Computer Centre (Central facility).

Electronics and Telecommunication Engineering

This is that core branch of engineering which is the major driving force for the present day technology revolution. It has a wide area of scope not limited to the fields of core electronics, health care, instrumentation, automation, remote sensing, signal processing etc. These graduates can develop exciting careers in various government sectors, consumer electronics, power electronics, healthcare equipment manufacturing, IT industries, mobile communication, Robotics, etc.

Key Laboratories -

- Electrical Engineering Lab.
- Electronics Circuit Design Lab.
- Communication Engineering Lab.
- UHF & Microwave Lab.
- Instrumentation Lab.
- Digital Electronics Lab.
- PLC & SCADA Lab.
- Power Electronics Lab.
- VLSI Lab.
- Embedded System Lab.
- Computer Lab. (PG)
- Project Lab.
- Signal and Image Processing Lab.
- Microprocessor & Microcontroller Lab.
- Research Lab.



Information Technology

The user industries are building its applications using the best products in Database System, Data Communications and Networking, etc. They are using IT in their operations and decision making. Due to its exponential growth, computer user community is facing shortage of manpower, trained in developing quality solutions and planning for long term IT requirements. The need for human resources in the IT industry is being addressed at various levels.

Information Technology course provides sophisticated academic program that will have the necessary depth and focus to meet the needs of both the user and the IT industry. IT provides a formal yet flexible education and research structure. Sipna's UG programme in IT is the only NBA accredited among the Engineering Institutions in the Vidarbha region. In addition to the curriculum, we also focus on various co-curricular activities like workshops, mock interviews, guest lectures by experts, etc. to bridge the gaps between the syllabus and current trends in the IT industries.

Key Laboratories -

- DBMS Lab.
- Computer Network Lab.
- Software Engineering Lab.
- Internet of Things Lab.
- Project Lab.
- Web Technology Lab.
- Programming Language Lab.

Mechanical Engineering

The evergreen branch in engineering stream finds its way from the day the stone-age man chiseled his first tool to progressing towards the artificial hands which holds the tool, the field of mechanical engineering has come a long way. Today, apart from the core areas like the automobile industry, mining, aerospace engineering & material sciences; a mechanical engineer finds his utility in areas such as the IT industry and banking sectors. A mechanical engineering curriculum is diverse and it is central to so many modern industries (e.g. aerospace, shipping, defence armament, refrigeration & air conditioning, biomedical, automobile, mechatronics, etc.) and hence individual mechanical engineers are employed in a wide range of engineering endeavors, from initial research & development of a product to manufacturing and marketing. In a way, mechanical engineers are involved in creating the future. The work of a Mechanical Engineer can be extremely challenging and fulfilling, requiring IT, design and analytical skills together with an ability to work as a team in multidisciplinary streams.

Key Laboratories -

- Heat Transfer Lab.
- Measurement Systems Lab.
- Engineering Metallurgy Lab.
- Theory of Machine Lab.
- Production Technology Lab.
- Energy Conversion Lab.
- Refrigeration and AC Lab.
- Mechanical Workshop.
- Non-Conventional Energy Lab.
- I. C. Engine Lab.
- Automation Engineering Lab.
- CAD/CAM/CAE Lab.



Civil Engineering

Civil Engineering is one of the oldest engineering disciplines because it deals with constructed environment including planning, designing & overseeing construction and maintenance of building structures & facilities such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, water sewage systems & water treatment facilities. Subsequently, the course also involves protecting the public and environmental health as well as improving existing infrastructure. Civil engineers find jobs in various government, public and private sectors.

Key Laboratories -

- Geo-Technical Engineering Lab.
- Transportation Engineering Lab.
- Surveying Lab.
- Engineering Mechanics Lab.
- Reinforced Cement Concrete Lab.
- Fluid Mechanics Lab.
- Environmental Engineering Lab.
- Strength of Materials Lab.
- Computer Aided Design Lab.
- Geology Lab.

Science and Humanities

Department of Science and Humanities deals with teaching basics of engineering curriculum in order to clear the fundamental knowledge of Mathematics, Chemistry, Physics, Engineering Graphics, Basics of Electrical Engineering and Engineering Mechanics. These fundamentals are the basics building blocks of any Engineering disciplines and develop creative minds of the students. In addition to this, the study of Humanities will surely strengthen the ability of Engineers to work and communicate effectively in the global professional world. Thus, the curriculum makes the students well versed and conversant with basics of Engineering profession.

Key Laboratories -

- Engineering Physics Lab.
- Language Lab.
- Engineering Chemistry Lab.
- Central Computing facility Lab.
- Mathematics Lab.
- Central workshop.

MBA

In order to meet the wide ranging, challenges and growing demands for professional Managers, in the recent times from every side nationally and globally, the Department of Business Administration (MBA) was established in the year 2008 with the objective of preparing efficient management professionals for the industry, economy and society. At Sipna MBA, the emphasis laid on the student is not only to enhance individual skills but to excel in every professional area so as to emerge as a key member of team and become a responsible citizen. The department is dedicated to imparting need based and value-based management education to develop talented managers to face future global challenges and align them to today's societal needs with dual or core specialization options in Finance (FM), Marketing (MM), Organizational Behaviour-Human Resource Management (OBH) and Production & Operation Management (POM). These leaders of the tomorrow are given an opportunity of exposure in respective field of their specialization in national branded companies to add their skilled value to face the challenges of expanding economy through SIP. The ultimate goal of the department is to shape leaders who can take up the toughest of challenges with a unique blend of innovativeness and confidence while dealing in the competitive business environment.



Innovation & Incubation Centre

Innovation & Incubation Centre is actively involved in developing the paradigm of entrepreneurial mindset and environment of ideating, creating and commercializing the ventures aligned to the core theme of incubation centre.

Career Guidance Cell

The Career Guidance Cell provides relevant academic and career information to enable students to make informed decision along the way. It also focuses to create awareness about the importance of higher studies in India & abroad. It also inculcates the value to serve the nation through various civil services.

Entrepreneurship Development Cell

The Entrepreneurship Development Cell has been established with a view to encourage graduating engineers to consider self-employment as a career option. Cell promotes entrepreneurship through guest lectures, workshops, seminars, and competitions and industrial visits. We are here to water the 'IDEAS' in the bud and help them bloom into impactful endeavors.

Research & Development Cell

Research & Development Cell aims to create research awareness amongst our faculty members and students'. It also helps to have faster collaboration and interaction with researchers working on various disciplinary and interdisciplinary researches.



TRAINING AND PLACEMENT CELL

- The Institute has full-fledged Training & Placement Cell headed by TPO & Co-ordinators.
- Regular inbuilt personality development sessions by professionals and Industrial experts.
- Close and Pool Campus interview drives are organized regularly.
- Well-known Multi National, small & medium size companies visits regularly for campus interview drives.
- Job assistance for all deserving students.
- Continuous Industry - Institute - Interaction through industry visits, in-plant training and Internships.
- Guest lectures by Industry experts.
- Sponsored project assignments.
- Live project consultancy etc..
- Industry based scholarships to students on merit basis.
- Organization of Entrepreneurship Awareness Camp.

Our Recruiters :



Industry Institute Interaction and Corporate Relation Cell

III & CR Cell looks for Career & Personality Development of Students by organizing different types of Guest Lectures & Training Activities. Industry Institute Interaction is done through this III & CR Cell for exposure of students to industry. In vacation period, in-plant training & industrial tours are organized by the cell through which the students get practical experience. To fulfill the technical human resource demand of industry this cell continuously interacts with the industry and organizes on - campus placement activities for the eligible students, through which students get final placement in the industry. This cell also takes care of Entrepreneurship of Students which creates opportunities for the students to become Self employed.

Central Library

- State of art and fully computerized Central Library.
- Over 51084 Text and Reference Books Collection.
- Subscription of 359 National and International Journals.
- Subscription of scholarly e-Journals of Elsevier Science Direct.
- More than 1500 e-Books access on intranet.
- IIT Video lectures access facility through NPTEL.
- Membership of National Digital Library of India (NDL)
- Fully equipped Audio-Visual Section and Digital Library Section.
- Subscription of 15 daily / weekly news papers of repute.
- Fully air-conditioned Reading Hall and Reference Section with a seating capacity of 155.

Girl's Hostels

- Four girl's Hostels.
- Air conditioned rooms.
- Total capacity - 350.
- Visiting doctor's facility.
- Multistoried building with lift facility.
- Total building Area - 3320 Sq. M.
- Separate mess facility.
- Residential warden for each Hostel.



ISTE Chapter, IETE Student Forum, IEEE, ACM, CSI, IE, Membership

The institute has a membership of various professional bodies which include ISTE chapter, IETE student forum, IEEE, ACM, CSI and IE. Through these chapters, the institute runs various technical activities and programs such as workshops, seminars, project competitions etc.

Alumni Association

An alumni association of 5800 members forms a strong alumni base of our passed out students. An alumni meet is organized by the association and Institute. We also take alumni interactions and activities to acquaint our students with the present working culture in the industries.

Other Activities

National Service Scheme (N.S.S.), Annual Social Gathering, Cultural Activities, Staff & Student Development programme, Alumni Meet, Parents Meet, Seminars & Workshops by women's cell is organized every year.

Clubs at Sipna

At Sipna, various students clubs are formed to nurture the inherent skills and talent of students.

- Crafty Crew
- Sipna Carnival
- Sipna Jivhala
- Words of Wisdom
- Sipnapreneurs
- Competitive Exam Club
- Technoavishkar
- Attitude
- Fitness Club
- Nature Club.



HIGHLIGHTS

- Established in the year 1999, aims at imparting higher & technical education to the people of the region.
- Recognized by A.I.C.T.E., New Delhi.
- Approved by D.T.E. Maharashtra State, Mumbai.
- Affiliated to Sant Gadge Baba Amravati University, Amravati.
- Accredited with International Accreditation Organization (IAO)
- Certified by ISO 9001 : 2005, ISO 14001 : 2015 (Environment Management System)
- Accredited by NBA, New Delhi ; Three UG Programs.
- Accredited by NAAC, Bangalore with 'A' Grade.
- A 'Mentee Institute' of College of Engineering (COEP) Pune.
- Highest percentage of student placement in the region in India's most renowned companies every year.
- Recognized under section 12(B) & 2 (f) of UGC act.







- ADMISSIONS OPEN -

Admissions to the courses of the Institute are done as per the norms & guidelines of Directorate of Technical Education, M.S. Mumbai through Centralised admission process.

COURSES OFFERED

BE (Bachelor of Engineering)

Four years Full Time programme (8 semesters)

- Computer Science & Engineering
- Information Technology
- Electronics & Telecommunication Engineering
- Civil Engineering
- Mechanical Engineering

MBA (Master of Business Administration)

Two years Full Time programme (4 semesters)

Specialization

- Finance Management (FM) / Marketing Management (MM) /
- Production and Operation Management (POM) /
- Organizational Behaviour-Human Resource Management (OBH)

ME (Master of Engineering)

Two years Full Time programme (4 semesters)

- Computer Science & Engineering
- Information Technology
- Computer Engineering
- Electronics & Telecommunication Engineering
- Digital Electronics

SSPM'S BRANCHES

Sipna College of Engineering & Technology, Amravati
Sipna Arts, Commerce & Science College, Chikhaldara
Sipna School of Planning and Architecture, Amravati



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