

**SHRI MADHWA VADIRAJA INSTITUTE
OF TECHNOLOGY AND MANAGEMENT**
A UNIT OF SHRI SODE VADIRAJA MUTT EDUCATION TRUST®



PROSPECTUS

ENGINEERING YOUR CAREER AND CHARACTER WITH CARE



VISION

To be recognized as an eminent center of education imparting holistic knowledge.

MISSION

*. Develop transformational leaders in technology, research and innovation through integrated education to meet societal needs.

*. Disseminate knowledge by providing conducive academic ambience at affordable costs.

*. Nurture all-round personality development and impart value based education founded on the tenets of humanity, integrity, ethics and sustainability.

CORE VALUES

- Discipline
- Determination
- Dedication
- Integrity & Trust
- Interest & Involvement

OBJECTIVES

- To create a transparent and attractive academic environment that encourages pursuit of excellence and free from commercial interests and questionable practices
- To inculcate in the students and the teachers, a scientific temper and a spirit of enquiry
- To develop and nurture a value-based, but thoroughly professional educational system in which the teacher and the student alike are at their innovative best at all times, encouraging each other to keep pace with the ever expanding frontiers of knowledge
- To make significant contribution towards the growth of a healthy society through pioneering education and effective industry-institute interactions
- To be the role model in higher education and the most preferred choice of students, faculty and industry





Shri Shri Vishwavallabha Theertha Shripadaru

Sode Shri Vadiraja Matha, Udupi

न चोरहार्यं न च राजहार्यं न भ्रातृभाज्यं न च भारकारि
व्यये कृते वर्धते एव नित्यं विद्याधनं सर्वधनप्रधानम् ॥

Education or knowledge is such a unique wealth which no robber can rob, no king can capture, nor can it be divided among siblings. Most importantly, the more it is used, the more it increases.

Today we all are living in a technology-led era. The gadgets which are outputs of technological innovations are a part of our daily lives. It is very difficult to imagine even a single day without these gadgets. This Institution was established with the realization of the importance of these technological advancements, and to encourage as many students to use this knowledge towards innovations and contribute to the betterment of the society. SMVITM aims to ensure a holistic and value based education to the students by providing state-of-the-art infrastructure & facilities along with a well-qualified and experienced team of teaching and non-teaching staff.

We wish the interested and deserving students to make the best use of the facilities provided at SMVITM and become pioneers in the domain of technology in the days to come.

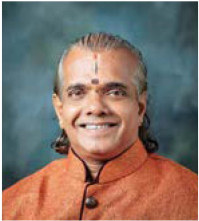
May God Bless you all!



TRUST MEMBERS

Shri Shri Vishwavallabha Theertha Swamiji

Founder of SMVITM and President.



Shri P. Srinivas Tantry

Diwan - Sode Shri Vadiraja Matha and Vice President of Shri Sode Vadiraja Mutt Education Trust (SSVMET)



Shri Rathnakumar

Secretary - SSSMET



Shri H. V. Gowthama

Chartered Accountant at Bangalore



Prof. B. S. Revankar

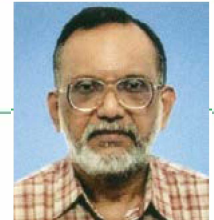
Former Director, NITK-STEP

GOVERNING COUNCIL MEMBERS



Shri Shri Vishwavallabha Theertha Swamiji

Chairman



Prof. Udipi Srinivas

Former Professor, IISc, Bengaluru



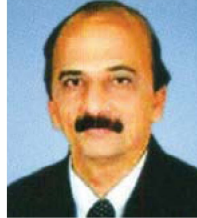
Prof. S G Gopalakrishna

Director, Nagarjuna Engineering College, Bengaluru



Shri B Y Rajeshwar Singh

Industrialist, Bellary



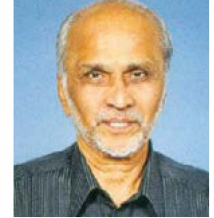
Prof. Gopala Mugeraya M

Director, NIT Goa



Shri Sunder Madakshira

Head of Marketing, Adobe India



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MD - Ace Manufacturing System, Bengaluru



Prof. P R Mukund

Professor of Electrical & Microelectronic Eng.Dept, RIT, Rochester, NY USA



Prof. Radhakrishna S. Aithal

Director of ICAS, MAHE, Manipal



Shri Jagdish Acharya

Chief Executive, JADE HEAD- Managers & Associates Mumbai



Shri Sham Sunder

CEO & President, Paajaka Consultancy Services (PCS) Bengaluru



Shri Harish Belman

Premier Investments, Udupi



Dr. M. S. Moodithaya

Pro Vice-Chancellor NITTE University



Prof. Aswath M U

Principal, BIT Bengaluru



Prof. Thirumaleshwara Bhat

Principal & Member Secretary



Prof. Ganesh Aithal

Vice Principal and Staff Representative

The Director, AICTE, South Western Regional Office
Member, AICTE Representative

Principal Secretary Higher Education Dept., GoK
Member, Karnataka Government Representative

PRINCIPAL'S MESSAGE

Our former President, the late Bharat Ratna, Dr. A. P. J. Abdul Kalam had rightly said that the purpose of Education is to make good human beings with skill and expertise. Any institute for that matter will provide education, but only a responsible educational institution will offer education that shapes and moulds students into well-accomplished human beings. Shri Madhwa Vadiraja Institute of Technology and Management (SMVITM), Bantakal, Udupi, is one such Institute which imparts value based technical education transforming new and fresh minds into individuals with holistic accomplishments.

Our Institution is managed by Shri Sode Vadiraja Mutt Education Trust®, with ample support and guidance from Shri Shri Vishwavallabha Theertha Swamiji of Shri Sode Vadiraja Matha, Udupi, who is also the President of the Trust. Our Institute has received "A-Grade" accreditation by the National Assessment and Accreditation Council (NAAC) and a few programs are accredited by National Board of Accreditation (NBA). It is worth mentioning that, SMVITM is the only institution in coastal Karnataka to get these two accreditation status, in just eleven years of its existence.

Our students have participated in various National/State level project competitions, University level games, co-curricular and extra-curricular activities, Hackathons, SAE Supra contest, etc., and won many awards in these events. This indicates that the education accorded at SMVITM is not just limited to academics, but also helps in the comprehensive growth of the students.

Special emphasis on Outcome Based Education (OBE) focuses on project/practical based learning and support from more than 15 industries/Institutes of Prominence, helping the students to not only gain technical knowledge but also realize their talents and capabilities in



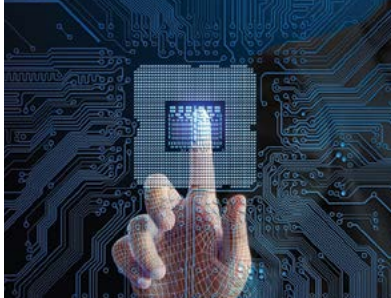
Prof. Thirumaleshwara Bhat
Principal

their respective fields. Scholarships to the needy students, fee concession to the deserving and underprivileged students, special attention to every individual through mentoring programs, interaction with alumni and industry experts is a bonus for the students at SMVITM.

The motto of our college is "Engineering Your Career and Character with Care" and we, at SMVITM, are dedicated to this cause. We hope that the students make the best use of the facilities offered by this Institution and become exceptional human beings well-equipped to handle any situation and strive forward to achieve their dreams.



COURSES OFFERED



The institute offers four year undergraduate courses, leading to the award of Bachelor of Engineering (B.E.) degree in the following disciplines:

Branch	Intake
Artificial Intelligence & Data Science	60
Artificial Intelligence & Machine Learning	60
Computer Science & Engineering	180
Electronics & Communication Engineering	120
Mechanical Engineering	30

All the courses are approved by AICTE, New Delhi & Institute is affiliated to VTU, Belagavi. Institute is accredited with A Grade by NAAC and a few programs are accredited by NBA New Delhi.



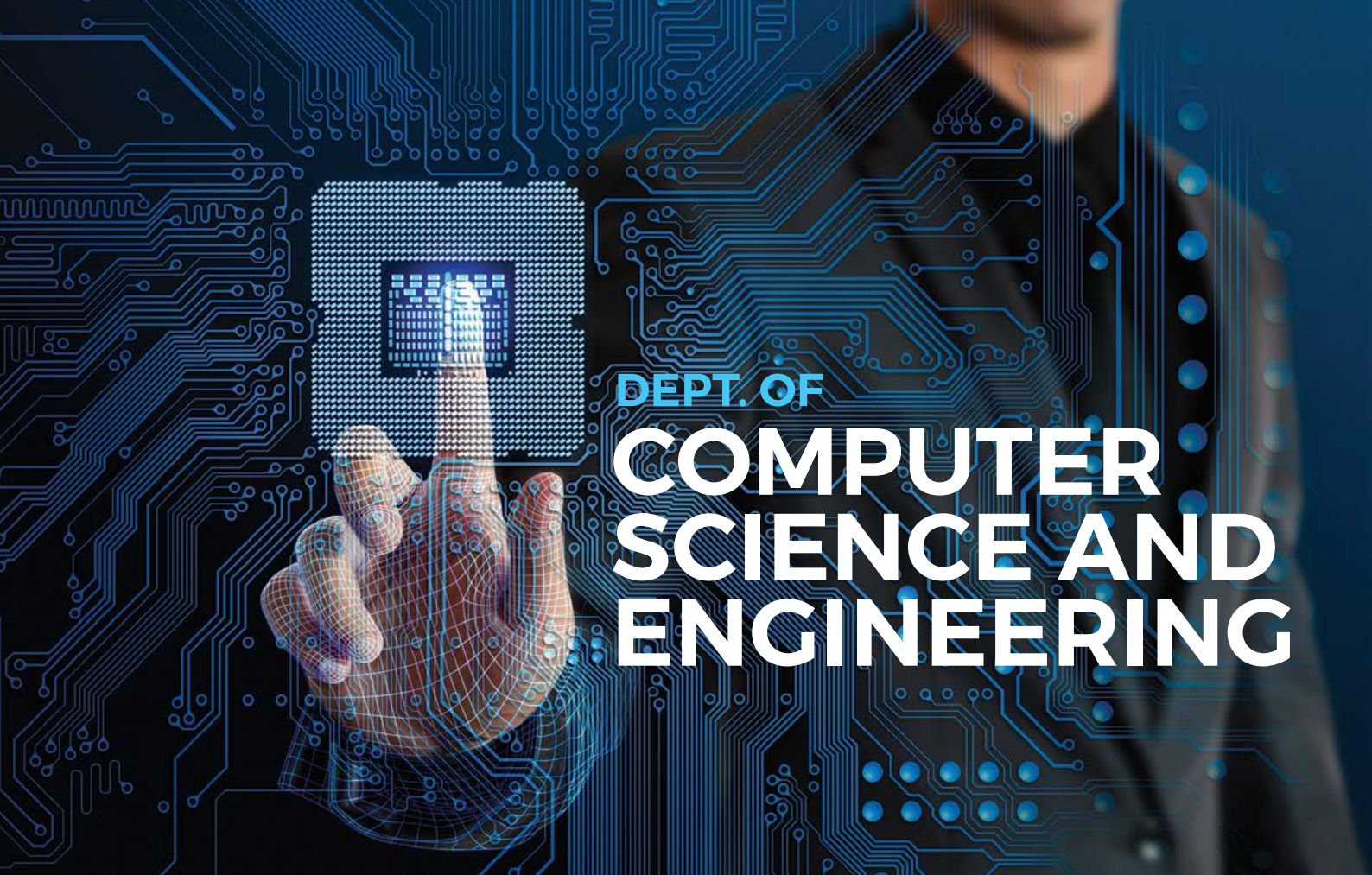


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DEPT. OF COMPUTER SCIENCE AND ENGINEERING

Computer Science and Engineering discipline has been generally accepted as an important source and technique for enhancement in all realms of human life, both now and in the future. There is an increased demand for skilled and competent professionals in the field of Computer Science.

To meet this demand, the Department of Computer Science & Engineering was established at SMVITM in 2010, offering B.E. in Computer Science and Engineering.

In the department, every student is given the chance to participate in their academic activities and also encouraged to develop their overall personality through participating in extra-curricular and co-curricular activities. The Department aims at training the students to be industry-ready by the end of their course through regular curriculum as prescribed by the University and also with supplementary programs, throughout their study.

The department is associated with several professional bodies/associations like IEEE, ISTE, through which students will get a platform to exhibit their technical talent. Student association, Code Troopers conducts various activities to enrich technological skills in students.

Students are expected to pursue ambitious

assignments and to publish their work in different international journals. The Department puts a great focus on delivering practical education by properly handling the lab work to supplement their theoretical understanding. Organizing events like Codethon, Hackathon help them to enhance their design thinking skills.

At the department, faculty members are committed to training the students for a more substantial challenge ahead and nurturing them to create a solid base for the next step so that they can even exceed on the technological front and become more valuable to society. Eminent academicians have been appointed as Adjunct Faculty with the Department to supplement teaching; they also mentor the students as well as the faculty members on high end technology and research areas.

The Department has the most sophisticated and state-of-the-art laboratories aimed at giving hands-on training to the students in the most advanced areas in programming and software development.





LABORATORIES UNDER THE DEPT. OF CSE

Computer Center I

- C Programming

Computer Center II

- Analog & Digital Electronics
- Microcontroller & Embedded Systems

Computer Center III

- System Software
- Networking
- Unix System Programming & Compiler Design

Computer Center IV

- Data Structure & OOPS
- Design and Analysis of Algorithms
- DBMS
- Computer Graphics

Computer Center V

- Web Programming
- Projects
- Machine Learning

Center Computing Center

- Mobile Application Development
- Projects
- Machine Learning





DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING

Electronics today stands at the forefront of the rapidly expanding horizon of Science and Technology. Every day we are dealing with electronic circuits and devices in the form of computers, cell phones, cameras, home appliances, etc. Electronics has also made deep inroads in areas such as healthcare, medical diagnosis, automobiles, etc. and has convinced everyone that without electronics, it is impossible to live. The rapid developments that are taking place in new technological areas like the Internet of Things, Artificial Intelligence, Machine Learning and Robotics have placed even greater demand for electronics and communication engineers in the job market.

Programs Offered

To cater to this need, the department of Electronics and Communication Engineering at SMVITM offers B.E. and Ph.D. programs to produce ECE Engineers and Researchers with essential knowledge of applied sciences, mathematical modeling, logical interpretation and virtual realization to conceptualize, design, and develop electronics and communication systems to meet the modern day requirements. The outcome based engineering curriculum which is being followed in the institute kindles creative thinking and problem solving abilities of the students for a smooth transition from academics to real life work environment.

Established in the year 2010, the department provides a good academic ambience which is conducive to the excellence in technical education; provides platform for exchange of ideas between academicians, researchers, industrialists and students for dissemination of knowledge – to achieve its goal to emerge as an excellent technical education center, and produce highly knowledgeable, competent and resourceful young ECE engineers who can perform well in a wide variety of job profiles, and be an integral part in developing technologies to meet the global challenges.

Strengths of the Department

The department possesses well trained, competent and highly motivated faculty and staff members who have adopted some of the best academic practices being followed in India and abroad. It regularly organizes seminars, symposiums, workshops, conferences and invited talks by eminent faculty from reputed institutions and industries, to keep the students abreast of the latest technological developments in related fields. The department utilizes the services of some high-repute academicians and engineering professionals with the objective of guiding the students as well as the faculty members.

The department has adopted innovative teaching-learning practices such as ICT based learning, Peer-to-peer learning, Experiment based learning, MOOC courses, YouTube channels, Flipped classrooms, Google classrooms, Student seminars, Mini projects, Major projects, Industrial visits, etc. to ensure proper understanding of the subjects and to make the students industry-ready.

Excellent Infrastructure



In order to create a favorable environment for teaching-learning and knowledge dissipation, the department has spacious classrooms and laboratories with black board, white board, LCD projectors and WiFi facilities. The laboratories are equipped with the necessary infrastructure and adequate facilities to train the students in practical courses of Electronics and Communication Engineering. The students are given experiments beyond the syllabus and open-ended questions in the laboratories in order to stimulate their

creative thinking and to encourage innovations.

To strengthen the interaction with industries and to keep the students abreast with the latest technologies, the department has tied up with several industries to provide hands-on training in latest software tools in the areas of embedded systems and VLSI design & testing. The industries also provide short and long term internships to the students so that they get an opportunity to work on live projects and also develop good contacts with professional engineers.

NBA and NAAC Accreditations

The programs offered by the department are accredited by the National Bureau of Accreditation (NBA), and the institute is accredited by the National Assessment and Accreditation Council (NAAC), certifying the quality of teaching-learning and other academic activities of the institute in general, and the department in particular.



Career Opportunities and Placements

The graduates of E&C Engineering have bright career opportunities in areas such as Embedded Systems, VLSI Design, Signal Processing, Image Processing, Computer Vision, Machine Learning, Artificial Intelligence, Information Technology, Software development, Mobile Applications development, IOT, Robotics, Control Engineering, Consumer Electronics, Power Electronics, Telecommunications, to name a few. Before they complete the four year B.E. program, the students of the department get successfully placed in reputed core electronic companies and IT companies and begin their career. The graduates of the department are currently working in companies such as IBM, TCS, Wipro, Infosys, Intel, Accenture, Amazon, Cognizant, MindTree, Tayana, Tessolve, iWave, Karmic, Robosoft, to name a few. Good number of students also secure admissions to top rated universities for higher education, both within the country and abroad, paving their way for a bright future.





DEPT. OF MECHANICAL ENGINEERING

Mechanical Engineering is the most diverse and versatile of the engineering disciplines. In addition to physics and mathematics, it encompasses key elements of aerospace, electrical, civil, chemical, materials science and bio-engineering. Mechanical engineering touches virtually every aspect of modern life, from mobile phones and biomedical devices, to aircrafts and power plants. Mechanical engineering is at the forefront of developing new technologies for a number of industries including transport, healthcare, construction, and robotics.

The Department of Mechanical Engineering at SMVITM was established in the year 2010. The department offers an undergraduate programme in mechanical engineering, with a sanctioned intake of 30 which targets to strengthen and enhance the students' knowledge acquired from basics of Science and Mathematics to Materials, Solid Mechanics, Thermodynamics, Heat Transfer, Product Design, Mechanism of Machineries and Manufacturing Processes. Students of Mechanical



Engineering will also acquire knowledge about managerial functions, additive manufacturing, designing of automobiles and recent trends in the domain.

The department is providing state of the art laboratory facilities which supplements the theoretical learning by providing hands-on experience to its students. The R&D Centre at the department is equipped with machineries worth Rs. 56 Lakhs sponsored by the Karnataka Council for Technological Upgradation, Bengaluru. Department has also established an additive manufacturing laboratory consisting of 3D printer and filament extruder, where research on recent trends in additive manufacturing are undertaken. The department frequently conducts theoretical and practical technical sessions, industrial visits, technical and soft skill workshops for the benefit of students.

The department promotes interdisciplinary specialties by providing hands-on training in various courses and providing a platform to showcase the same through projects. As a result, students of mechanical engineering under the guidance of their faculty have done projects like Biodegradable Leaf Plates and Bowls, Modular Reversing System in Scooter for Physically Challenged, Foot Operated Wash Basin, Cashew Nut Deshelling Machine, Folding Motorcycle Helmet and so on, and won many awards too. The department prepares the mechanical engineers who are the driving force behind many of our technologies and industrial processes including innovative products.

To promote industry institute collaboration the department has close collaboration with Central Manufacturing Technological Institute (CMTI), University of Agricultural and Horticultural Sciences, Kennametal, V&G Industrial Testing Laboratories, MSM Consultancy, EduCADD and Vinayaka Engineering through MoUs, and the students get benefitted from many such initiatives.

The B.E. program prepares students for a broad range of career choices and can shape their professional career in the field of automotive, biomechanics, computer, construction, energy, defense, automation and robotics industry, thermal and manufacturing industry to name a few. In addition, they can track their higher education/research in the above areas at national or international universities.

• **Lakshya Motorsports** is a collegiate club under the banner of Society of Automotive Engineers (SAE) India. The main objective of this club is to conceptualize, design and manufacture formula racing cars which are then exhibited in National level events like SUPRA, where these cars are tested rigorously and driven in race tracks alongside teams from premier institutes of India.

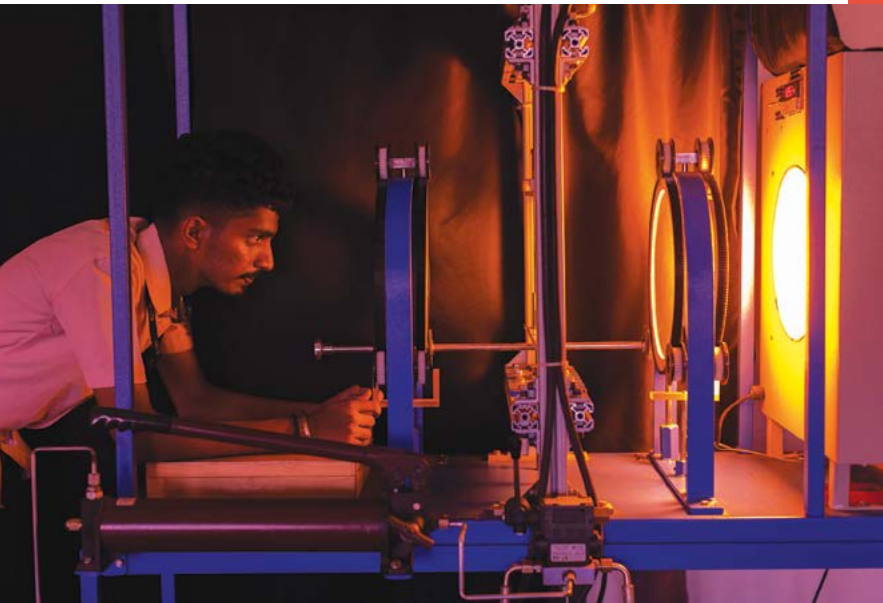
• **Yantrika** is a department student club providing a platform to students to take up leadership roles and to organise technical events for betterment of the student community.

• **Renewable energy Club** is a student club focusing on creating awareness, exploring and adoption of various renewable energy sources.



Laboratory Facilities

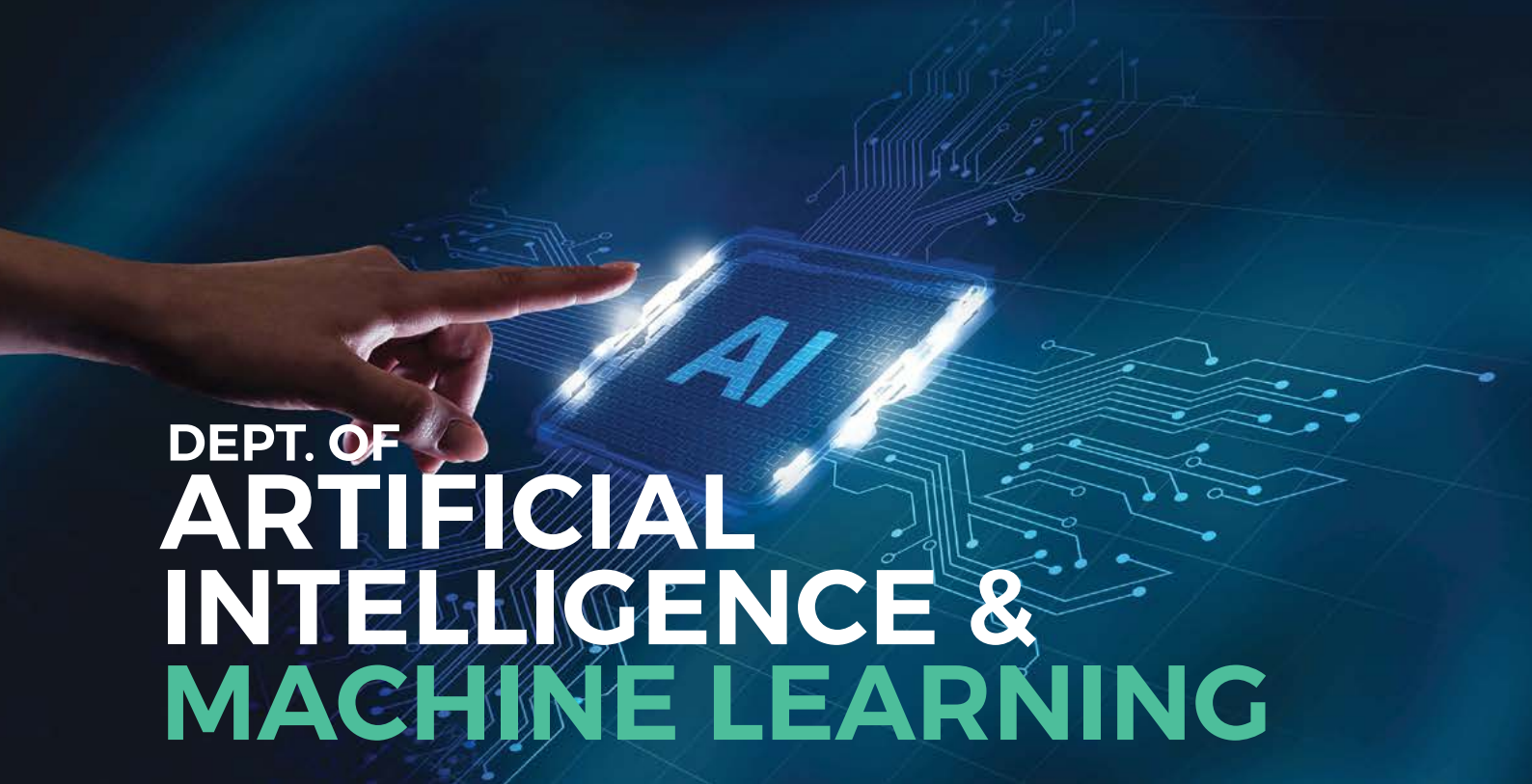
- Centralised Workshop
- Computer Aided Drawing Laboratory
- Metallography and Material Testing Laboratory
- Foundry and Forging Laboratory
- Mechanical Measurements and Metrology Laboratory
- Machine Shop
- Energy Conversion Laboratory
- Fluid Mechanics and Machinery Laboratory
- Computer Aided Modelling Analysis Laboratory
- Heat and Mass Transfer Laboratory
- Computer Aided Manufacturing Laboratory
- Design Laboratory



Our proud alumni are growing in organisations like Indian Oil, Bosch, Kennametal, Volvo, Toyota, TVS motors, Amazon, TCS, Infosys, Polycab Wires just to name a few.

The department has active student clubs to ignite their inner hidden passion. These clubs are involved in organizing and participating in various Career Development Activities for the student members such as hands-on workshops, seminars, webinars, conferences, poster presentations and many more. They also provide an opportunity to build a network with Industry Leaders and Corporate Officials through active participation in activities through membership of the professional society.





DEPT. OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

The theory and development of computer systems that can perform tasks normally requiring human intelligence, such as visual perception, speech recognition, decision-making, and translation and interpretation are formalized as AI.

Machine learning is a method of data analysis that automates analytical model building.

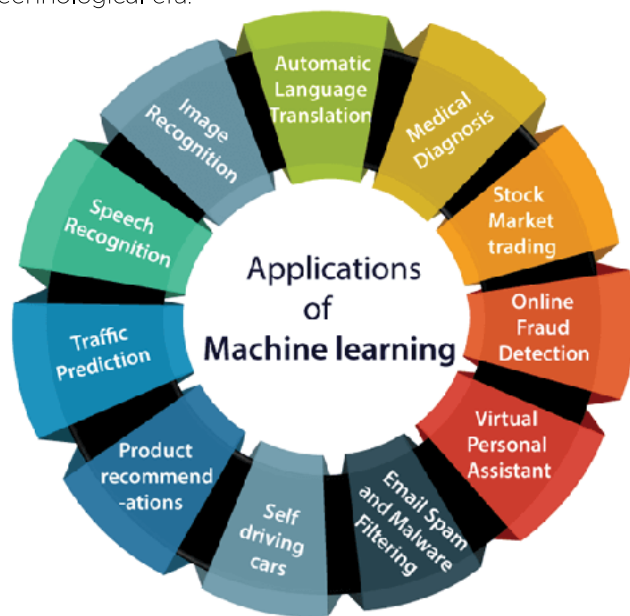
The adoption of Artificial Intelligence/Machine Learning (AI/ML) is growing worldwide. Organizations worldwide are adopting AI/ML in their business transformation journey for agility, resilience, innovations, and scalability.

With this backdrop, SMVITM offers a four-year under-graduate program, B.E.(Artificial Intelligence and Machine Learning) for laying a strong foundation by using the principles and technologies that consist of many facets of Artificial Intelligence including logic, knowledge representation, probabilistic models, and Machine Learning.

Students shall be able to acquire the ability to design intelligent solutions for various business and research problems in a variety of domains and applications and also explore fields such as neural

networks, natural language processing, robotics, deep learning, computer vision, reasoning, and problem-solving.

This program is best suited for students seeking to build world-class expertise in Artificial Intelligence and Machine Learning and emerging technologies which help to stand apart in the crowd and grow careers in the upcoming technological era.



CAREER OPPORTUNITIES

With a big explosion in data and its applications, a career in the field of AI&ML can be very promising as Big Data Engineer, Business Intelligence Developer, Data Scientist, Machine Learning Engineer, Research Scientist, AI Data Analyst, AI Engineer, Robotics Scientist, etc.

With a specific job description on AI&ML, students will find huge opportunities in the reputed industries like Microsoft, Amazon, Dell, Accenture and many more.

The future roles are many with AI&ML as the foundation. The graduates of the program can pursue higher education and research at premier national or international universities with a great future in research. The AI/ML department's goal is to emerge as a department that helps in serving the Information Technology Industry and the nation by empowering students with a high degree of technical and practical competence through the VTU AI and ML syllabus.



DEPT. OF

ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Artificial Intelligence and Data Science is an interdisciplinary field of science, engineering, and technology that is causing a paradigm change in nearly every sector of the technical industry, academia, and research. Artificial Intelligence and Data Science are the future of technology, and they are rapidly altering the world. The primary goal of this course is to familiarise students with the next generation of machine intelligence and analytics, which will impact nearly every aspect of our lives, improving efficiencies and augmenting human capabilities, and influencing consumer products through significant breakthroughs in the healthcare, manufacturing, finance, and retail industries.

Data Science plays an important role in assisting every business organization in identifying business trends and changes through advanced Big Data Analytics with a variety of techniques and tools to interpret and predict business results and the future from multiple data sources through statistical analysis, data aggregation, and data mining. The institute will begin offering an undergraduate engineering program in Artificial Intelligence and Data Science from the academic year 2021-22, with an in-take of 60 students. Students will be provided with the best infrastructure and computer facilities to deal with the modern computational laboratory experiments.

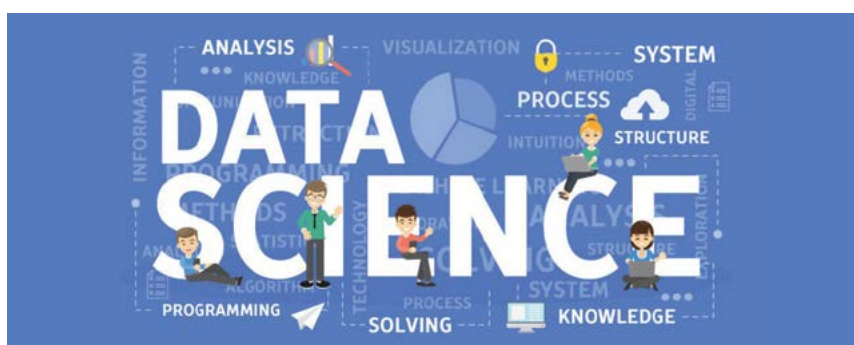
At its base, the course is multidisciplinary, combining computer science

with mathematical principles, machine learning techniques, data science ideas and their implementations across many disciplines. Subfields such as Big Data Analytics, Machine Learning, Computer Vision, and Pattern Matching are included in the curriculum.

Students will be able to study a range of transdisciplinary specialism areas such as Digital Reality, Graphical Computing, Communication and Networking and cutting-edge technologies relating to Data Sciences, Robotics, and smart IOT Applications as part of the curriculum. Students can take management specialized courses like Entrepreneurship Skill Development and Ethics and Policy Issues in AI Computing as part of the curriculum, which focuses both AI and management studies for the scope of entrepreneurial endeavours.

According to a Gartner research, Artificial Intelligence (AI) is expected to provide over 2.3 million new jobs by 2022. According to Indeed, job openings in the field of artificial intelligence have more than quadrupled in the previous three years. According to a similar survey from Indeed, the most in-demand employment categories in artificial intelligence include machine learning engineers, software engineers, and data scientists.

AI and DS graduates will be able to create and develop intelligent business apps to tackle a variety of industrial issues. They suggest solutions based on the most up-to-date tools and open-source software. They can decide how to evaluate engineering knowledge and practises in level of moral, ethical, competent, and social criteria. Through the use of AI and Data Science tools and techniques, these graduates can also prove domain knowledge in data processing, information retrieval, mobile and distributed application development, intelligence web/ecommerce development, computer hardware, database administration, networking, education and training, and decision support systems.





TRAINING & PLACEMENT

THE BIG PICTURE

You need to “Think Big” if you want to succeed! You need to be ambitious, curious, give attention to details, work fast and smart, be consistent and think of how you can achieve the small goals to reach the big goals that you aspire to, to fulfill your dreams in life. Set no limits to your thinking and your goals.

“Aim for the moon. Even if you miss, you will land among the stars” - Norman Vincent Peale

If you want to be an Engineer, be ready to become a problem solver. Be ready to see problems as opportunities. Think of what you can do with limited resources, plan what is possible, start right now and have the courage to take calculated risks in life. That is the only way to be creative and innovative and be able to visualize and realize your dream.

Roles & Responsibilities of the Placement Cell of SMVITM

The SMVITM Training and Placement Cell (T&P Cell) is a facilitator for Placements for every student of the college. The role and responsibilities of the T&P Cell is to groom and equip the students, starting right from the first year to the final year, to guide them through the various career options post engineering.

Career options post Engineering

- Jobs in the Private or Govt Sector
- Higher Education options of MS/MTech/MBA/Other programs in India or Abroad
- Jobs in the Defence Sector - Indian Army, Indian Navy and Indian Air Force
- Jobs in the Merchant Navy
- Entrepreneurship - Start your own business.

Special Trainings get jobs in the Railways, Post Office, Banking sector, etc

Every student should realize the importance of Soft Skills, Technical, Aptitude and Placement related training to launch their career. To get them ready for this journey, the Training and Placement Cell conducts its functions through three areas – Trainings, Career counselling and guidance and Placement related activities

Training; Career Counselling and Guidance & Placement Related Programs conducted at SMVITM

1st & 2nd Sem

- High School Maths Brush Up sessions for Strengthening Foundational knowledge
- Placement Induction

3rd & 4th Sem

- Aptitude Training - Phase 1 & 2
- Life Skills Training
- Soft skills training

5th & 6th Sem

- Aptitude Training - Phase 3 and 4
- Placement Preparatory Sessions - Resume building, LinkedIn profiling, JAMS, GD's, Presentation skills.
- Higher Education Awareness for MS/MBA in India and Abroad.
- Competitive Exam Orientations - GATE, CAT, GRE, etc
- Company Domain and Sector awareness

7th Sem

- Practice Tests in Aptitude
- Technical skills brush-up
- Mock Technical and HR interviews
- Company Specific Technical Training

COMPANIES ASSOCIATED WITH SMVITM



Engineering, as a stream of study, demands all the basic knowledge of Physics, Chemistry, Mathematics and ignoring these streams can never make a perfect engineer. It plays a pivotal role in the lives of engineering students as it helps them develop scientific skills such as thinking, logical reasoning, scientific observation, which is of prime importance in the industry these days.

DEPT. OF BASIC SCIENCE

Department of Mathematics

The Department of Mathematics was established in the year 2010 to provide students with a strong mathematical foundation through the course which deals in mathematical applications, and caters to the needs of the students with regards to the engineering skills as well as research and higher education. With its well qualified and committed faculty and innovative instructional methods, the Department of Mathematics lays a strong foundation in Engineering Mathematics in the students. The department is deeply involved in research and shares the knowledge with the academic sectors through publications. The VTU approved doctoral research center established under the department is functional with three candidates registered for Ph.D.

Department of Physics

The Physics Department at SMVITM was established in 2010. The vision of the department is to cater to the needs of all the branches of engineering, and to impart sound fundamentals and theoretical concepts in Physics which help the students to nurture scientific temperament and creativity in the field of engineering. The Department has well qualified, experienced and highly motivated teaching faculty members and technical staff. Currently, The department also has an Engineering Physics Lab which is well furnished with state of the art equipments. The department has been recognized by VTU as Research Centre since 2013-14. A lab for the purpose of research has been set up in the department to enable faculty members to pursue experimental research in the field of crystal growth, nonlinear optics, thin films and nanotechnology. The department received funding for conducting research from various external funding agencies such as BRNS and VGST.

Department of Chemistry

The Chemistry Department offers Engineering Chemistry for a B.E. Undergraduate to obtain a thorough fundamental knowledge of various areas of chemistry with relevance to industrial applications. The department has an excellent experimental facilities which enable the students to carry out the experiments smoothly and efficiently. Highly Experienced and Well-Qualified faculty members are available in the department to encourage and motivate the students. The Department has a recognized Research Center by Visvesvaraya Technological University (VTU) since 2014. Apart from teaching, the faculties are also involved in Research activities. Two faculties are recognized as research supervisors at VTU. The thrust areas of research taken up by the faculty in the department include Natural Products, Corrosion studies, Synthetic chemistry, Crystal growth, Theoretical and Physical chemistry.

Department of English

English can be regarded as a foundation when it comes to exploring the value of the humanities in the lives and imagination of people, especially students. The English Department of SMVITM offers the Technical English course for its first year students. The objective is to provide students with the necessary communication skills and help them with inter-personal interaction in their professional life. They need to be able to think critically, solve problems, communicate clearly, be creative and work in a team in order to get placed in a reputed company. To help students become all-rounders and make use of technical communication to pave way for a better future is one of the aims of learning English language as well as the aim of the English department of this institution.

DEPT. OF PHYSICAL EDUCATION



SMVITM, has always given utmost importance to health and Physical fitness of staff and students. It has specially developed a sports environment that matches the required standards and gives a truly exciting experience to students and staff.

Physical Education Department is well established with different sports and games amenities such as:

- Facilities/ground for Athletics and games.
- Football and cricket fields.
- Volleyball, Throw-ball, Basketball, Kabaddi, Netball, Badminton, Handball Courts and shuttle badminton courts.
- A well-equipped multi gymnasium facility for boys & girls.
- Indoor facilities like Table-Tennis, Carrom, Chess etc.



The College sports and games teams have participated in Cricket, Basketball, Football, Throwball, Volleyball, Handball, Table-Tennis, Best Physique, yoga, Weight Lifting, Powerlifting, Wrestling, Judo, Chess and Athletics in the VTU zonal and inter-zonal levels and won many prizes.



PROFESSIONAL ASSOCIATIONS



Indian Concrete Institute



Indian Concrete Institute is one of the leading professional bodies in India, catering to the professional needs of individuals and organizations involved in Concrete. Being a non-profit organization, it is dedicated to the cause of Disseminating Knowledge on Concrete, to promote concrete technology and construction and to address the research needs of concrete

ICI has set the objectives oriented towards professional growth and personality development of the students

especially in the area of concrete technology. It encourages civil engineering students to start student chapters in their respective colleges and these chapters provide unique opportunities to student members to interact with practicing professionals in various disciplines, with an objective of reducing the gap between their theoretical knowledge and practical experience. Their participation in ICI Student Chapter activities enhances the employability and soft skills. Student members of ICI student chapter at SMVITM are eligible for various concessions offered by ICI.

IEEE Student Branch (STB10147) IEEE

The Institute of Electrical and Electronics Engineers (IEEE) is a professional association for electronic engineering and electrical engineering (and associated disciplines) with the motto "Advancing Technology for Humanity". It was formed in 1963 from the amalgamation of the American Institute of Electrical Engineers (established in 1884) and the Institute of Radio Engineers (established in 1912). IEEE and its members inspire a global community to innovate for a better tomorrow through its more than 400,000 members in more than 160 countries, and its highly cited publications, conferences, technology standards, and professional and educational activities. IEEE is the trusted "voice" for engineering, computing, and technology information around the globe. IEEE Geographically consists of 10 Regions under which there are about 342 Sections, 2,562 Chapters that

unite local members with similar technical interests and 3,485 Student Branches at colleges and universities in over 100 countries.

An IEEE Student Branch provides opportunities to meet and learn from fellow IEEE Student and Graduate Student Members and engage with professional IEEE members locally at institute level. An active IEEE Student Branch organizes technical and humanitarian activities like workshops, invited talks etc. and offers professional networking opportunities that build critical skills outside of the classroom. The IEEE Student of SMVITM was approved in 2018 and has hosted many activities. While IIOT, 2020 IEEE DISCOVER, Hackathon are major technical activities, ATL mentoring is one of the major societal activities of the branch.





The Indian Society for Technical Education (ISTE)

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. The major objective of the ISTE is to provide quality training programs to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity and to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organisations.

SMVITM has been certified by ISTE, New Delhi as the Institutional Member (IM: 2248) in the year 2013. ISTE Student Chapter (KA-114) and ISTE Faculty Chapter (KA-118) has been formed to motivate faculty and student members in the institute to

contribute/enhance their technical skills. All the teaching faculty in the institute are Life Members of ISTE and all students are also enrolled as ISTE Student Members during their period of engineering education in the institute. ISTE Chapters at SMVITM have organized several technical programs like National Conference, Seminars, Workshops, Faculty Development Programs, technical competitions etc.

ISTE chapter of SMVITM has achieved a milestone by receiving the prestigious Best Faculty Chapter of ISTE Karnataka Section on the basis of activities carried out during the year 2018. It is a matter of pride to mention that, the students of SMVITM have been awarded with the best ISTE student award consecutively for five year from 2015.

Being a student member, a student may gain various leadership skills by actively taking part in various activities conducted throughout the year. These skills would certainly be helpful for their professional as well as personal growth.



LAKSHYA MOTORSPORTS STUDENT COLLEGIATE CLUB, DEPARTMENT OF MECHANICAL ENGINEERING, SMVITM

Lakshya Motorsports is a student team of Shri Madhwa Vadiraja Institute of Technology and Management under the banner of Society of Automotive Engineers (SAE) India. This platform is intended to provide skill sets pertaining to Conceptualization, Design and Manufacturing of Student Formula Racing Car. The team involves Interdisciplinary Domains of Engineering collaborating for a common cause: to excel as a successful student team. The major focus of the team is to participate in the National Level Event: SAE SUPRA 2022. Earlier the team had participated in SAE SUPRA 2019 at the Buddh International Circuit, Greater Noida. The SAE Collegiate club is involved in organizing and participating in various Career Development Activities for the student members such as hands-on workshops, seminars, webinars, conferences, poster presentations and many more. The club also provides an opportunity to build a Network with Industry Leaders and Corporate Officials through active participation in activities through membership of the professional society.



FACILITIES

Co-curricular Committee

Co-curricular activities add balance to students' life by bringing out intellectual skills, scholarly abilities and facilitate cognitive development in students. Co-curricular cell of SMVITM is continuously allowing students to explore strength and talents outside the academics. Our main motto is to indulge students in various activities to sharpen their technical skills and orient them towards project based learning. Giving students an opportunity to build their talents by project activities such as Mini project exhibition in order to showcase their technical skills. Also preparing students for various competitive exams to build their career.

Every year SMVITM is organizing Tanthrikothsava –a technical inter collegiate tech fest to showcase students technical skills. Students are also motivated and guided to participate in various technical events in and outside the campus. Many students have participated and won several prizes in various events such as Hackathons, paper presentation, technical writing, quiz and technical gaming activities like Robo wars, Robo race etc.

Extra-Curricular Committee - Samskrithi

The Extracurricular Committee, "Samskrithi" is one of the most dedicated platforms whose main motive is to find inner talents and abilities of students. With a wide range of activities to choose from, it provides a plethora of opportunities for the students of SMVITM. The objective of the Extracurricular Committee is to bring out the talents of staff and students by arranging extracurricular activities in the college, as well as encouraging the students to participate in in-house and inter-collegiate extracurricular competitions.

The major fest being conducted in SMVITM is Varnothsava. Since 2014, "Varnothsava" has been the flagship inter-collegiate techno-cultural fest of SMVITM. Through the years, Varnothsava has been a great platform for students to participate, collaborate and compete with their peers, learning and enjoying in the process. The perfect combination of technical and cultural events along with the vibrant enthusiasm of the participants creates a sportive environment.



'Manthana' is another platform to showcase the talents of SMVITians. Through this intra-collegiate fest, more than 30 literary, fine arts, and cultural competitions are conducted every year.

Apart from these, Talent shows, Karnataka Rajyothsava, and many occasional competitions and activities are carried out throughout the year.

These cultural activities enhance the confidence level of the students, thereby allowing them to perform better. These activities develop the personality of the students and assist them in shaping a good career.





SMVITM HOSTEL

Hostel life is certainly one of the most pleasant part of a student's life. We are here for students by "enhancing the living and learning environment at SMVITM". A home away from home is the concept of hostels at SMVITM. Separate hostels for boys and girls within the campus ensure safety and security of every inmate. The hostels provide all required facilities a student would need to dwell in to a comfortable student life. Inter hostel events are regular features where the fresher's are encouraged to participate and exploit their extra-curricular potential.

The students have access to common room, mess, TV and other leisure/sports activities within the hostel premises. SMVITM hostel has well furnished rooms for double/triple occupancy. Facilities such as hot and cold water, purified drinking water and on demand medical services are available. Hostel mess provides hygienic vegetarian food of their choice.

SMVITM TRANSPORT

As an additional facility, the institute offers transport facilities from prominent locations of Udupi district at reasonable cost. These buses ensure the safety of students and also reach the college on time.



Central Library

A well-equipped library is an essential and integral component of any education system. The Central Library of SMVITM is housed in a spacious three- storied state of the art independent block. Two floors of the block are occupied exclusively by the Central Library. It has about 1300 square meters of built-up area and functions in different sections such as circulation section, Periodical section,

Reference section, Group study section and digital library section. The Central Library has a collection of reference books, text books, e-books and general category books, dictionaries, encyclopedias, handbooks and standards with over 16800 volumes of 3,500 titles.

The library offers a book bank scheme for the students, a special book bank scheme exclusively for SC/ST students. The library has subscribed to many popular Technical and non-Technical magazines and English and Kannada dailies. Library also has well equipped digital library facility with LAN, Multimedia, internet and Wi-Fi facility, reprography and printing facilities for the use of students. As we are the member of VTU consortium we have subscribed certain popular databases under which we have popular Journals, e-books, proceedings, presentations and videos students can access that information remotely.

SERVING THE SOCIETY

NCC @ SMVITM

National Cadet Corps (NCC), is a voluntary program that any student can join. The program teaches students to be disciplined in life. It's a Tri-Services Organization and engaged in grooming the youth in India to become patriotic citizens. SMVITM has the company of 50 cadets which belongs to 4 Karnataka Engineers Company, NCC, Army wing.

NCC training offers many benefits to the trainees. After attending a minimum of 75% of NCC training, the students get a certificate from NCC according to their level. These certificates help the students in their career..

Objectives of NCC

- To develop character, comradeship, discipline, a secular outlook, the spirit of adventure and ideals of selfless service amongst young citizens.
- To create a pool of organized, trained and motivated youth with leadership qualities in all walks of life, who will serve the Nation regardless of which career they choose.
- To provide an environment conducive to motivating young Indians to join the armed forces.

NSS @ SMVITM



Benefits of joining NCC

In addition to personality development, after the completion of training duration cadets can earn one of the three certificates namely 'A' Certificate, 'B' Certificate, 'C' Certificate.

The 'C' certificate is the most important certificate of NCC training. Person with a C certificate has special consideration during selection for the armed forces. Also Many organizations from the public sector give advantages to the cadets with 'C' certification.





GLIMPSES OF EMINENT PERSONALITIES VISITED





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A UNIT OF SHRI SODE VADIRAJA MUTT EDUCATION TRUST®

INSTITUTE CAMPUS

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