



# ST JOSEPH ENGINEERING COLLEGE

Vamanjoor, Mangaluru - 575 028, Karnataka, India

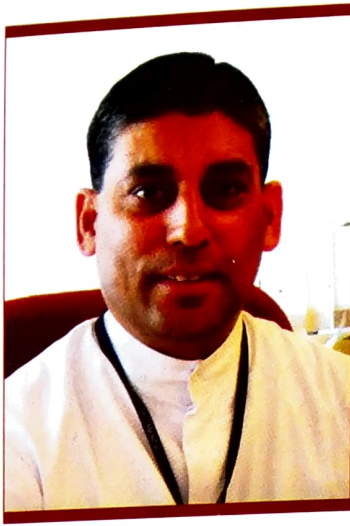
(A Christian Minority Institution affiliated to Visvesvaraya Technological University and recognized by the AICTE, New Delhi  
B.E-CSE,ECE,EEE & ME Accredited by NBA, New Delhi)



*Your Gateway to Success*

**P R O S P E C T U S**





## *Director's Message*

Welcome to St Joseph Engineering College.

I take great delight to introduce you to our college. I hope this brochure will help you to explore the many opportunities our College offers to shape your future as a prospective student and a person who dreams of a successful career. I know you have a very important choice to make at this point of time. This brochure will assist you to reflect more deeply in making that choice.

SJEC is affiliated to Visvesvaraya Technological University, Belagavi, Karnataka State and recognized by the All India Council for Technical Education (AICTE), New Delhi, India established in 2002. Four of our B.E. programmes are accredited by National Board of Accreditation (NBA). The College offers top class education in Engineering, Business Administration and Computer Applications at UG, PG and Research levels. It has well qualified staff, state of the art laboratories and all facilities. Presently about 2400 students are studying in the College.

We are ranked as one of the best colleges based on our student performance, quality education, job placements and the outstanding performance of our students in the industries where they are placed. The College provides for a wide variety of co-curricular and extra-curricular activities which give a head-start to students, developing their personality and imparting skills of decision-making and leadership.

"Service and Excellence" that is the motto of St Joseph Engineering College (SJEC). An SJEC education provides students with the tools to realize their potential and the courage and vision to use this education in service of humanity. Education at SJEC encourages creativity, confidence, commitment and competence. At SJEC, students gain the knowledge, skills and self-confidence they need to make a difference in their lives and in our fast-paced, ever-changing world.

SJEC provides a value-centered engineering and management education grounded in faith, ideals of truth and respect, shaping our students as ethical professionals. Our aim is to ensure that students have the skills necessary to succeed in today's competitive job market with such balance. The faculty we employ come from different backgrounds and are specially chosen for their industry experience as well as for their teaching excellence. Together with the management of the college, the faculty constantly strives to provide students a holistic campus experience which moulds them into lifelong learners.

I look forward seeing you at SJEC. For more details do visit our campus website – [www.sjec.ac.in](http://www.sjec.ac.in)

**Fr Joseph J. Lobo**  
Director - SJEC



**Motto of the College**  
**Service and Excellence**

**Vision of the College**  
**To be a global premier**  
**Institution of**  
**Professional Education**  
**and Research**

## MISSION

- Provide opportunities to deserving students of all communities, the Christian students in particular, for quality professional education
- Design and deliver curricula to meet the national and global changing needs through student-centric learning methodologies
- Attract, nurture and retain the best faculty and technical manpower
- Consolidate the state of art infrastructure and equipment for teaching and research activities
- Promote all round personality development of the students through interaction with alumni, academia and industry
- Strengthen the Educational Social Responsibilities.

## WHY SJEC ?

- **NBA Accredited Programmes:** One among the very few colleges in the region which has a current Accreditation from NBA, New Delhi, for four BE programmes.
- **Discipline:** College has a reputation for discipline which reflects in the graduates who passout.
- **Rigorous Evaluation:** College maintains rigorous standards of evaluation so that graduates will have actually earned their marks.
- **Faculty:** Dedicated team of faculty with 19 Doctorates, 34 pursuing Ph.D and 123 Postgraduates.
- **Placements:** Leading in number of placements made in reputed companies among colleges in this region.
- **Soft Skills Training:** College has tied up with corporate trainer I-Point Consulting to train students on Soft Skills.
- **Interaction with Industry:** College has tied up with Infosys for Campus Connect, with EMC2 for training on Storage Technologies and with IBM for training on Rational Rose.
- **Tech Fests:** Students organize tech fests which have acquired their own brand-value.
- **Students Projects:** Students execute industry relevant projects which have received accolades for innovation.
- **Results:** College has been consistently topping the region in terms of university exam results of students & a tradition of securing VTU RANKS.
- **College of Choice:** Most of the seats in the college get filled within the first few rounds of counseling.

## The College

St Joseph Engineering College, Vamanjoor, Mangaluru a premier institution; a hub for Creativity and Innovative Ideas in Engineering, established in the year 2002 with an aim to educate the youth in Engineering & Technology. SJEC is Affiliated to Visvesvaraya Technological University, Belgavi, in Karnataka State and recognized by All India Council for Technical Education (AICTE), New Delhi.

SJEC is a Christian minority College, but is open to students of all communities without distinction of religion or caste. It is professionally managed and forms a part of over 250 educational institutions of the Diocese of Mangalore, Located in an idyllic place at Vamanjoor, just 10kms away from Mangalore city.

## SALIENT FEATURES

- Beautiful campus spread over 40 acres of land
- Peaceful and most conducive environment for academic excellence
- The institute provides technical & spiritual environment that is conducive to the personal & professional development of the student
- Spacious well equipped laboratories
- The College has an All India image as well as an exposure to International students
- Highly experienced, Trained and dedicated faculty team
- Well equipped Library and online resources
- Computer Centre, internet, wi-fi connectivity
- Interlinking of departments through OFC and intranet
- Spacious Play Grounds for outdoor games, Indoor Games and Gymnasium
- Canteen and Cafeteria facilities to serve delicious food to students and staff
- Full Fledged Placement Department that is active & successful
- Nationalized Bank branch with ATM
- Hostels for 480 boys, 352 girls
- 24 hours full time campus security
- A Chapel to meet spiritual needs
- Staff Quarters for resident faculty members on campus
- Guest House to accommodate guests
- Dispensary to provide basic medical needs
- College buses provide transport to and from Mangalore, Moodabidri and Surathkal
- Separate Utility Block comprising of Canteen, STD booth, General Stores & bank extension counters to assist the students



# PROGRAMMES OFFERED

## B.E DEGREE PROGRAMMES

- Mechanical Engineering
- Electrical & Electronics Engineering
- Electronics & Communication Engineering
- Computer Science & Engineering
- Civil Engineering

### Eligibility:

**Admission to First Semester B.E. :** The candidates shall have passed second year Pre-University or XII standard or equivalent examinations with minimum 45% (40% for SC/ST and OBC Karnataka candidates) marks in Physics and Mathematics along with one of the following subjects: Chemistry, Bio Technology, Computer Science, Biology, and Electronics. Candidates must have studied English as one of the subject in PUC. CET or COMEDK score card is made mandatory for the students taking admission in BE course. A few seats are reserved under NRI quota.

**Admission to Third Semester B.E. (Lateral Entry):** A candidate who has passed diploma examination or equivalent examination and obtained an aggregate minimum of 45% marks taken together in all the subjects of the final year (fifth and sixth sem) diploma Examination is eligible for the admission to II year B.E Courses, and 40% of marks in the case of SC, ST and Backward Classes Karnataka candidates.

## POST GRADUATE DEGREE PROGRAMMES

### ▶ MBA Degree (Finance/HR/Marketing and Dual Specialisation)

**Eligibility :** Graduates in any discipline with 50% marks in aggregate (45% for SC/ST/Cat-I) are eligible.

**Government Quota:** Candidates should appear for PG CET and the seats are filled through centralized counseling.

**Management Quota:** Seats are based on the percentage scored in the graduation course and the percentile obtained in the KMAT/CMAT entrance test.

### ▶ MCA Degree

**Eligibility :** Bachelor's Degree, min 50% (45% for SC/ST, Category I) marks. Must have studied Maths/ Business Maths/ Statistics/Computer Programming/Computer Science/Computer Applications at graduate or plus-2 level with min 50% marks. A pass in KMAT or PG CET.

### ▶ M.Tech in Power Electronics (E&E Dept)

**Eligibility:** Bachelor's Degree in Electrical & Electronics, Electronics & Communication/ Instrumentation Technology/ Telecommunication. AMIE in appropriate branch with not less than 50% (45% for SC/ST/Cat-I) marks.

### ▶ M.Tech in Computer Science & Engineering (CS&E Dept)

**Eligibility:** Bachelor's Degree in Computer Science and Engineering/ Electronics & Communication Engineering / Electrical & Electronics Engineering/ Information Science Engineering/ Instrumentation/ Telecommunication Engineering or equivalent degree; AMIE in appropriate branch with not less than 50% (45% for SC/ST/Cat-I) marks.

### ▶ M.Tech in Digital Electronics & Communication Systems (E&C Dept)

**Eligibility:** Bachelor's Degree in Electronics & Communication/ Electronics & Telecommunication / Telecommunication or equivalent degree; AMIE in appropriate branch with not less than 50% (45% for SC/ST/Cat-I) marks.

(Note: Candidate should have a valid GATE score or PG CET Rank)

## RESEARCH PROGRAMMES

### ▶ M.Sc. (Engg) in Mechanical Engineering.

### ▶ M.Sc. (Engg) in Computer Science & Engineering

### ▶ M.Sc. (Engg) in Electrical & Electronics Engineering

### ▶ M.Sc. (Engg) in Electronics & Communication Engineering

**Eligibility:** Candidates who have passed B.E/ B.Tech (relevant discipline) Examination of VTU or any other recognized University, recognized by VTU as equivalent thereto and have passed the prescribed qualifying examination with not less than 60% of the marks in the aggregate, in the examinations of the semesters considered for the declaration of class/grade. [For detailed criteria, refer VTU regulations governing the degree of Master of Science in Engineering by research]

## Ph.D. PROGRAMMES

### ▶ Physics

### ▶ Chemistry

### ▶ Mathematics

**Eligibility:** M.Sc Degree with minimum 60% marks in related discipline.

### ▶ Mechanical Engineering

### ▶ Computer Science & Engineering

### ▶ Electrical & Electronics Engineering

### ▶ Electronics & Communication Engineering

**Eligibility:** M.Tech in related discipline.

### ▶ Business Administration

**Eligibility:** MBA degree with a minimum CGPA of 6.75 out of 10 or 60% aggregate marks.



# Mechanical Engineering

Accredited by NBA

**Vision of the Department: To be a value based department committed to excellence in teaching and research, nurturing technically competent and socially responsible engineering professionals**

Mechanical Engineering involves the application of principles of physics, mathematics and materials science to conceive, design, manufacture, operate and maintain mechanical systems and processes.

The Mechanical Engineering Department, SJEC, strives to prepare students for careers across a broad range of industries such as automotive, manufacturing, materials and metallurgy, oil and gas, and aeronautical. The department houses a full-fledged Research Center (approved by VTU, Belgaum) offering M.Sc (Engg) by research and Ph.D programs.

The Department has a dedicated, qualified and experienced team of Faculty, Technical and Supporting Staff. The faculty-student ratio in the Department is less than 1:15. The department has the advantage of having 10 faculty members with teaching experience of more than 10 years in its ranks. Among the faculty members, 8 have Doctoral Degrees, 32 have Master's Degree and 8 faculty members are currently pursuing their Doctoral Degree. The Students undergo their practical training sessions with the help of eleven qualified and experienced Technical Staff members.

## Laboratories:

- Energy Conversion Engineering Lab
- Fluid Mechanics & Machines Lab
- Mechanical Measurements & Metrology Lab
- Computer Aided Modeling & Analysis Lab
- Foundry & Forging Lab
- Machine shop & Workshop Practice
- Heat & Mass Transfer Lab
- Metallography and Material Testing Lab
- Design Lab
- CIM & Automation Lab
- Computer Aided Machine Drawing Lab
- Computer Aided Engineering Drawing Lab

The following research facilities have been installed to promote innovative academic project works for the students and facilitate state-of-the-art research by the faculty.

- Pin-on-Disk Wear Tester
- Computerised Variable Compression Ratio Diesel Engine Test Rig
- Smokemeter/ Emission Testing facility
- Engine Test Set-ups for Research
- Wind Tunnel Facility
- Materials Research Facility

To facilitate the overall personality development of its students, the Department of Mechanical Engineering has set up a students' association TORQUE, under the aegis of which, activities are carried out to improve the soft skills and learning skills outside the realm of the curriculum.

The Department also houses an Industry Interaction Cell, which conducts activities to provide the students exposure to Industrial work atmosphere, as well as, provides a platform to have constant interaction with Industry Personnel through Invited Lectures and Industrial Visits.







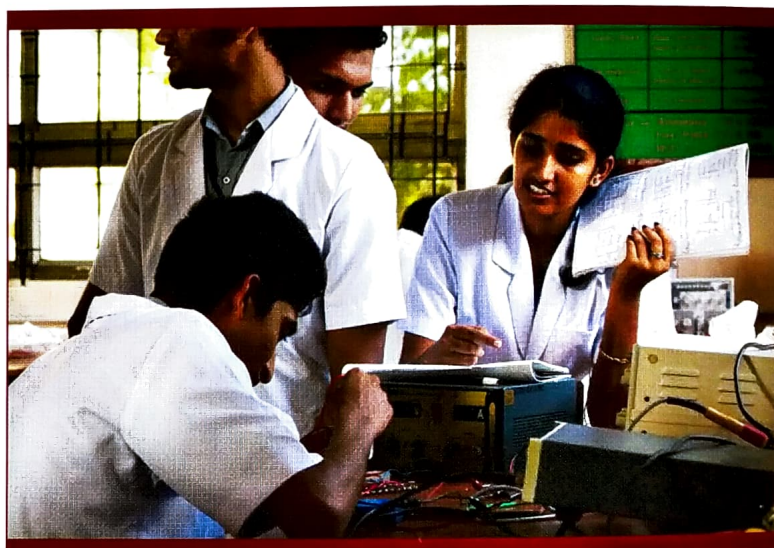
**Vision of the Department: Excel in Electrical Engineering Education and Research**

**The department is committed:**

- To develop necessary skills in students, through rigorous global education and an appreciation for life long learning for successful and satisfying careers.
- To provide students with a solid foundation in mathematical, scientific and electrical engineering to analyze data and technical concepts for application to product design and also to pursue higher education.
- To train students with good scientific and engineering breadth, including proficiency in software language and use of latest software tools so as to comprehend, analyze, design and create novel products and solutions for the real life problems.
- To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multi disciplinary approach and an ability to relate engineering issues to broader social context.

**The Department has the following well-equipped state-of-the-art laboratories to meet and exceed VTU and AICTE requirements:**

- Analog Electronics Lab
- Logic Design Lab
- Power Electronics Lab
- Circuit Simulation and Measurements Lab
- Transformers and Induction Machines Lab
- Control System Lab
- DC Machines & Synchronous Machines Lab
- Relay and High Voltage Lab
- Power System Simulation Lab
- Micro Controller Lab
- Reverse Engineering / Project Lab
- Computer Aided Electrical Drawing Lab
- Research lab



The student project/staff research laboratory is equipped with the state of the art instruments which enable students to undertake projects and research in emerging technologies and post graduate studies

### **EXTRA CURRICULAR ACTIVITIES:**

- Hands on training on latest software like LABVIEW, ETAP&MATLAB
- Hands on training on Domestic Wiring & Microcontrollers
- Mini projects & Major projects have been appreciated by funding agency.
- Regular industry interaction through internship& industrial visits

### **PLACEMENTS:**

- 80% of eligible students are placed on campus in core & software firms.

### **ALUMNI-ACHIEVEMENTS:**

- E&E graduates hold top positions in Public Sector Units like KPTCL, MESCOM, KPCL, Bangalore Metro & Kerala Electricity Board.
- E&E graduates are pursuing higher studies in top universities abroad.





# Electronics & Communication Engineering

Accredited by NBA

**Vision of the Department: To excel in Electronics and Communication Engineering education and research, focus on the needs of industry and society, with professional ethics**

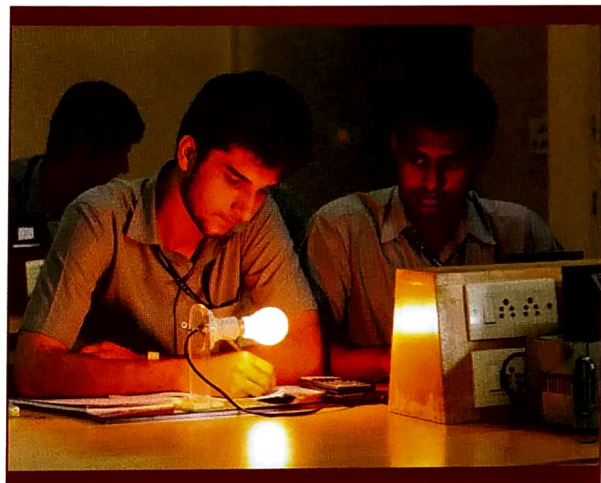
The Department of Electronics & Communication Engineering, set up during the inception of the college in 2002 has created a large number of new facilities for students, including a professional PCB fabrication facility, Lab view, Multisim, Matlab and Cadence Software used in industrial R&D Laboratories. The Department offers undergraduate and post graduate programs and has an approved Research Center

## The Laboratories are:

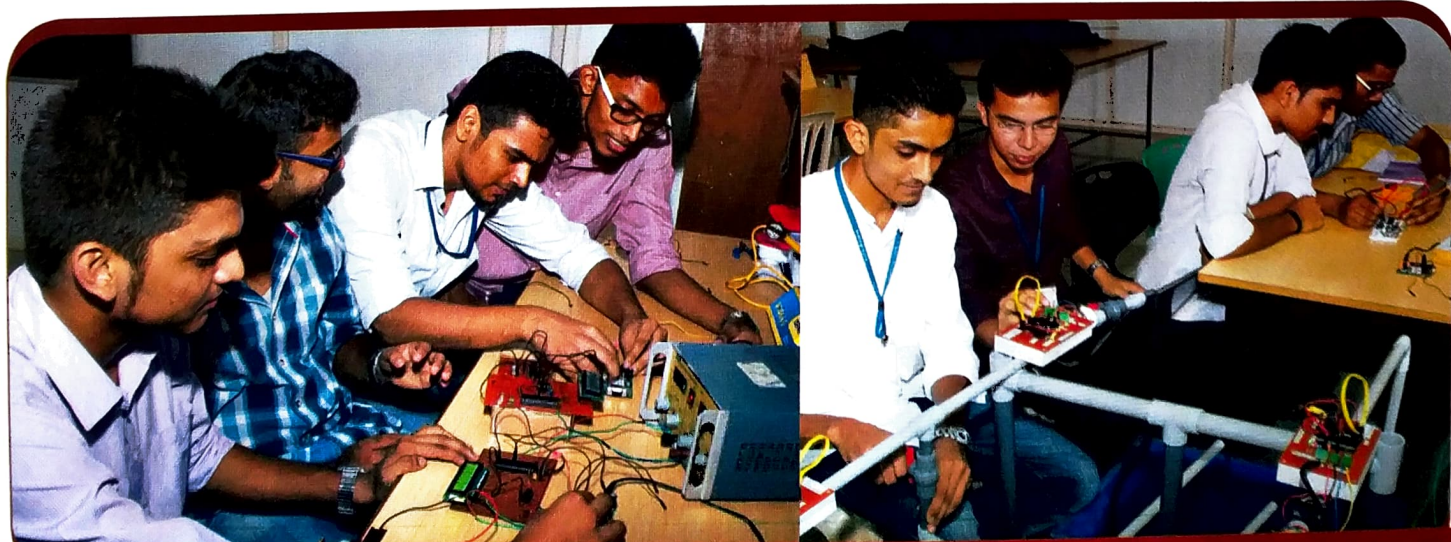
- Logic Design Lab
- Analog Electronics Lab
- Micro Controller Lab
- HDL lab
- AC+LIC Lab
- DSP Lab
- Microprocessor Lab
- Advanced Communication Lab
- Power Electronics Lab
- VLSI Lab
- Student Project / Staff Research Lab
- PCB Lab
- M.Tech.Computer Lab
- M.Tech. DEC Lab
- Research Center

## Software:

- MATLAB
- SPJ Compiler
- SCRAM C for ARM
- LABView & Multisim
- Xilinx ISE & Model SIM
- MEMs Pro
- Code Composer Studio
- Cadence



The Project Lab & Research Center are equipped with the latest state of the art instruments which enable students and staff to undertake projects & research in emerging technologies, post graduate and Doctoral studies.





# Computer Science and Engineering

Accredited by NBA

**Vision of the Department: To be recognized as a centre of excellence in computer and allied areas with quality learning and research environment**

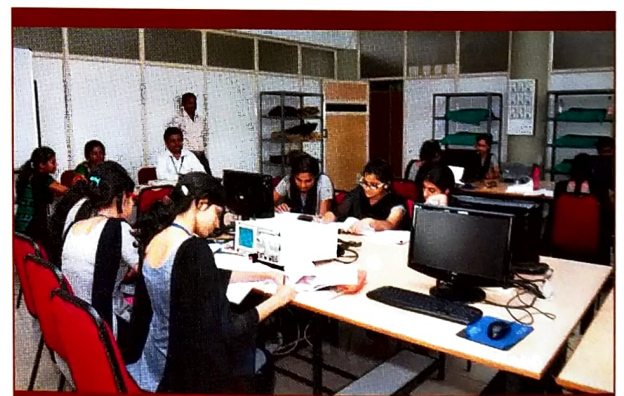
The undergraduate program is offered with a unique combination of courses and projects that help students to cope up with the recent advancement in the Computer and IT industry. The primary objective of this program is to prepare students for successful careers in computer and Information Technology industry that meet the needs of Indian and multinational organizations. The program involves wide variety of courses which enable the students to formulate, solve and analyze computer engineering problems, prepare them for graduate studies and develop the ability to synthesize data and technical concepts for application design & implementation of real time software products.

**The Department has eight well-equipped state-of-the-art laboratories to meet the computing needs of students:**

- Data Structures and Algorithms Lab
- Electronic Circuits and Microprocessors Lab
- Databases and Computer Graphics Lab
- System Software and Operating Systems/ Unix and Compiler Design Lab
- Network Programming Lab
- Web Programming Lab
- Advanced Computing Lab 1
- Advanced Computing Lab 2



Each laboratory has a spacious carpet area of 105.6 sqmt to accommodate 35 students working on locally networked computers with latest configurations. The laboratories and class rooms are equipped with LCD Projectors and other necessary teaching aids.





## Civil Engineering

**Vision of the Department: To impart technical education and nurture research in Civil Engineering to meet the needs of the Society.**

The Department was established in the year 2012 to offer Bachelor of Engineering (BE) degree program in Civil Engineering with annual intake of 60. The undergraduate curriculum is designed to introduce the students to a wide range of problems encountered by Civil Engineers in the field. Survey camps and practical training are a part of the curriculum aimed at familiarizing the students with actual problems. Apart from the curriculum industrial visits, internship are conducted and encouraged among students.

Spacious and well equipped state-of-the-art laboratories and computing facilities are the main stay of the department.

**Students are trained in the following laboratories:**

- Material Testing Lab
- Surveying Lab
- Geology Lab
- Hydraulics Lab
- Computer Aided Design Lab
- Geotechnical Engineering Lab
- Environmental Engineering Lab
- Concrete and Highway Lab



Students learn to plan, design and analyze structures. They also learn to estimate the cost of construction from the planning stage to the final stage. Frequent visits by professionals from the construction industry and guest lectures by visiting faculty provide practical experience and keep students abreast with the latest advancements.

The department has experienced faculty members who are actively involved in teaching, research and consultancy.





# Master of Business Administration(MBA)

**Vision of the Department:** To impart quality management education to bring out competent, socially responsible and conscientious professionals

The Department of Business Administration offers a two-year, full-time programme recognized by AICTE, New Delhi and Department of Technical Education, Government of Karnataka. The MBA programme is affiliated to Visvesvaraya Technological University, Belagavi. The Department offers dual specialization in MBA namely **Finance & Marketing, Finance & Human Resource Management** The Department is a recognized Research Centre of Visvesvaraya Technological University, Belgaum, and offers Ph.D. programme in Business Administration.

The Department of Business Administration follows a learner-centered philosophy and strives to produce talent that can contribute to the growth of our nation. The learners here think beyond the limits and achieve excellence with an enriching learning experience. The academic curriculum supplements classroom learning with corporate exposure through organization-based project work spanning a period of twelve weeks. In addition a continuous industry-institute interaction, in the form of special guest-lectures, workshops, practical assignments and conferences, strengthen practical learning. The graduates are trained to face the distinct business challenges that they would come across in today's challenging global environment.

### STRENGTHS:

- Contemporary curriculum
- Excellent Faculty
- Diverse student profile
- Career Placements
- Separate library with good collection of books
- Gavel club affiliated to Toastmasters International



### Mission of the Department :

- Imparting contemporary curriculum and its application to business situations
- Developing proficiency through continuous industry-academia interface and research
- Sensitizing students towards the needs of the society
- Inculcating diligence through extra-curricular activities
- Encouraging entrepreneurial attitude through constant guidance

### Facilities:

#### Library:

The Department has a spacious library having an excellent collection of latest books, magazines, journals and periodicals on Management. In addition to the print versions of journals the Department has Ebscohost online research database. The library remains open for nearly 12 hours on all working days for the benefit of students and faculty. Apart from the Department library the students have access to the central library of the SJEC for traditional and digital references.

#### Computer Laboratory:

The Department has a separate computer lab equipped with the latest technology and trained assistant to help the students learn through hands on experience. It also has Campus Wi-Fi network for internet access for faculty, students and staff.

#### Placement and Training Cell:

The college has a creditable placement record. The Placement and Training Cell is headed by a qualified and experienced Placement Officer. The Cell conducts regular training programmes for personality development, entrepreneurship development etc. and assists the students for project placement as well as final placement. On-campus and off-campus placement interviews are arranged during the final semester.





# Master of Computer Applications (MCA)



**Vision of the Department:** To be recognized as a department with research environment empowering computer professionals with a strong sense of service and human values at the core

The Master of Computer Applications (MCA) programme was started in the year 2008 with an intake of 60 students. The Department offers a three year course approved by AICTE, Government of India and is affiliated to Visvesvaraya Technological University (VTU), Belagavi, Karnataka.

Computer Applications Curriculum is composed of core classes organized around the study of design and analysis techniques used to write software in various application domains along with details about the internal workings of computers and networks. Elective classes in areas such as Rich Internet Applications, mobile computing, Advanced computer networks, graphics, Unix System programming, Artificial Intelligence and others allow students to explore areas of individual interest.

### Mission of the Department:

- To inculcate professional behavior with strong ethical values and innovative research capabilities among faculty and students
- To meet global needs and challenges through training of professionals who can work with interest to support the society
- To Encourage faculty to have continuous progress in their teaching skills and self-development.

### STRENGTHS:

- Consistent record of excellent results (above 90%)
- Well equipped laboratories with 100% licensed software
- 100% placement of all eligible students who have consistent academic record of above 60%
- Consistent champions in various fests across the district

### Facilities :

Four well established laboratories, to meet the computing needs of the students.

- C-programming and Object Oriented Programming Laboratory
- Unix and System Software Laboratory
- C# and .Net Laboratory
- Web and Internet Computing Laboratory.

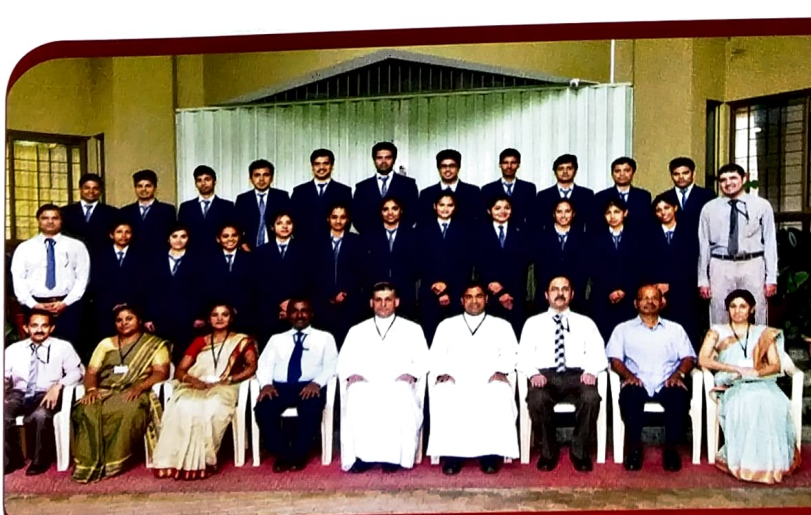
Each laboratory has a spacious carpet area of 66 sqm to accommodate 30 students at a time, respectively. Computers are networked, with latest configurations and provided with LCD and other required teaching aids.

### Department Library

An independent Library cum reading room provides students' access to the latest Titles, journals, Conference Papers, Question Papers and Placement supporting material. In addition, traditional and digital references are available in the Central Library.

### Internships/Placement:

The MCA programme includes a 6 month internship cum project study in different companies to enable students to gain practical experience and make a transition into the industry. Our students have done a number of the outstanding projects well appreciated by their managers and companies. The Placement Cell conducts regular training programmes to prepare students for placements. On-campus and off-campus placement interviews are arranged during the final semester.





## Supporting Departments

### PHYSICS

Mission of the Department is to feed the budding engineers with finer aspects of science which make them to understand, exploit and innovate, thus contributing to the technological advancement of tomorrow. The department has a well established engineering physics lab and a research center.

### MATHEMATICS

The Department of Mathematics provides a strong foundation in Mathematical basics which are building blocks of all subjects of engineering fields. We also teach essential subjects for MCA & M.Tech which are helpful for students pursuing Masters Degree.

The department has senior and experienced faculty together with young, dynamic faculty members. The department is constantly getting good results in VTU exams (more than 90%) with many students securing First Class with distinction. The department also contributes substantially towards growth of Individual students by motivating and helping them to take competitive exams.

### CHEMISTRY

The Chemistry Department pledges itself in the broadest and most liberal manner to encourage, the advancement of all branches of engineering through its practically skilled education and service missions.

The Faculty members of the department are dedicated to superior teaching and excellence in research activity.

The Faculty has evolved a dynamic learning Environment that accents student-centered learning, flexibility, interdisciplinary thinking and research.

The well equipped, spacious lab provides safe and comfortable working environment for 35 students at a time. In the laboratory there is seating arrangement for all the students during instructions and demonstrations. There is a good stock of chemicals, which is being replenished from time to time.

The department has research centre to promote research activities to faculty and students.

### DEPARTMENT OF HUMANITIES

The English Language Computer Laboratory is equipped with licensed interactive software for mastering the skills of the language in a learner friendly atmosphere. Humanities Department teaches Kannada, Ethics, Environmental and Constitutional studies, helping students to learn to live as brothers in society.

## Significant Features

### Faculty

The high results are a testimony to the effort of highly qualified and dedicated faculty, who, besides being role models, provide a caring atmosphere for learning. At SJEC the unique flavor is the care taken by the management to make every facility student centric. There are 19 Ph.D qualified teachers, 34 are pursuing Ph.D. and 123 Post graduate teachers.

### Training and Placement

The Placement Process at SJEC aims to match the requirements of the Corporate World with the aspirations of the students thereby facilitating a synergy between the two. The various Placements Activities undertaken at SJEC are described below.

At SJEC, it is our belief that experiences of corporate leaders provide invaluable learning to the students of management. IGNITIA – A series of Motivational Talk has been designed to serve as a forum for exchange of intellectually stimulating

ideas between business heads and future managers through the seminar format. Such sessions see students getting a practical perspective on the theoretical concepts learnt in class with the industry stalwarts gaining fresher and newer ideas. Continuing with this tradition, SJEC saw the most successful managers, leaders, and thinkers descend on campus during the previous academic year. SJEC also focus on sharpening the skills required to be successfully placed in the corporate world such as training on aptitude skills, soft skills, interview preparation, personality development, Group discussions, technical skills etc. To support and keep the students motivated there are placement coordinators appointed from each of the educational streams in the college to facilitate smooth flow of the placement process and also guide the students in various aspects during the placement season. SJEC Mangaluru has reinforced its position as one of the premier Engineering and Management institute in the



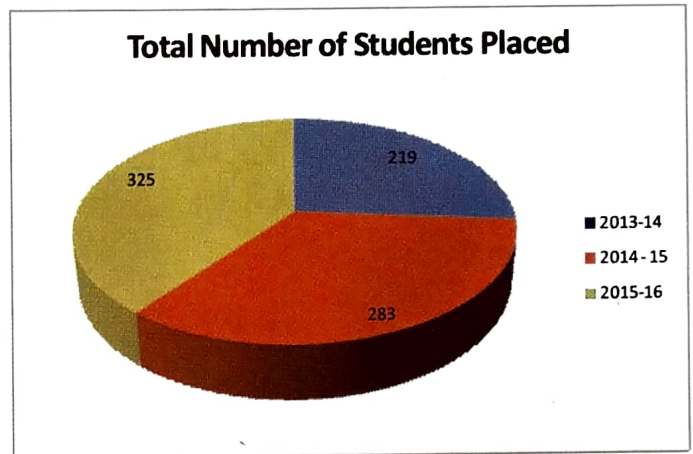
Mangaluru City of Karnataka State with on going Final Placements for the batch of 2015-16 which has seen a good number of students being placed. A total of 395 students participated in the placement process, with 325 students from 6 Engineering streams and 2 Postgraduate Courses of MCA & MBA getting placed.

The regular recruiters at SJEC reinforced their faith in the quality of talent by hiring in big numbers. This year witnessed a substantial increase in the number of companies confirming participation for the final placement process. The average Cost to the Company across the three courses saw a increase over the previous year with the highest domestic CTC offered increasing by a remarkable figure. The placement season saw an overwhelming response from companies spanning across various function. The stellar placements at SJEC stands testament to the faith shown in its pedagogy, faculty, alumni and students by the stalwarts of the industry.

SJEC is a member of the Consortium of Engineering Colleges of Mangaluru and conducts / participates in pool interviews.

## PLACEMENTS STATISTICS

YEAR	TOTAL NUMBER OF STUDENTS PLACED
2013-14	219
2014-15	283
2015-16	325



## PLACED STUDENTS 2015-16





## THE CENTRAL LIBRARY

(Member of VTU Consortium, DELNET, NITK)

The Central Library of SJEC is user focused, innovative and excellent. The library is a pioneer in adopting new technology, and is ahead of other technical libraries in the region. The Central Library along with its 9 departmental libraries collectively support the teaching, research and extension programmes of the Institute. Central Library manages knowledge, both in print and digital formats, ensures seamless discovery and access to these scholarly resources, and provides faculty, students and research scholars with professional support to find, evaluate, manage, and use such resources. It provides a high-quality ambience for both reflective and collaborative work and study. Its collection of about 40 thousand volumes, 110 technical print and above 6000 online journals are used by more than 2400 members and others.

### Highlights

- ❖ Access to:
  - VTU Consortium and DELNET e-resources
  - Online library catalogue
  - E-question papers
  - Digital Library
- ❖ Barcode Technology
- ❖ CCTV surveillance system



### Co-curricular and Extracurricular activities:

For the all round personality development of students, the college provides forums like; NSS, Red Cross, AICUF, Human Rights Club & Departmental Associations like



EELS, IEEE, Prodigy, Genesis, Cipher, ISTE, Torque, Intaglio, Technocrats, Industry Interaction Cell, Innovation Club, Entrepreneurship Dev. Cell, Gavel Club, Nirman and Sigmaths.

### Sports:

The Physical Education Department of our college is committed to maintain the physical fitness of students throughout their studies at SJEC.

Physical Education Department is well established with all sports and games amenities:

- 400mts Athletic track.
- Football and cricket fields.
- Volley ball courts , Throw ball courts and Basketball court
- Four shuttle badminton courts are maintained for both men and women.
- A well equipped multi gymnasium facility separately for boys & girls in their respective hostels.
- Indoor facilities like table tennis, carrom & chess etc.



The college sports and games teams participated in Cricket, Basketball, Football, Throw ball, Volley ball, Hand ball, Hockey, Table tennis, Swimming, Chess and Athletics in the VTU zonal and inter zonal levels and won many prizes.

In the odd Semester the department conducts inter class Foot ball, Basket ball for men, Volleyball, Shuttle Badminton, Chess, Table tennis for men and women and





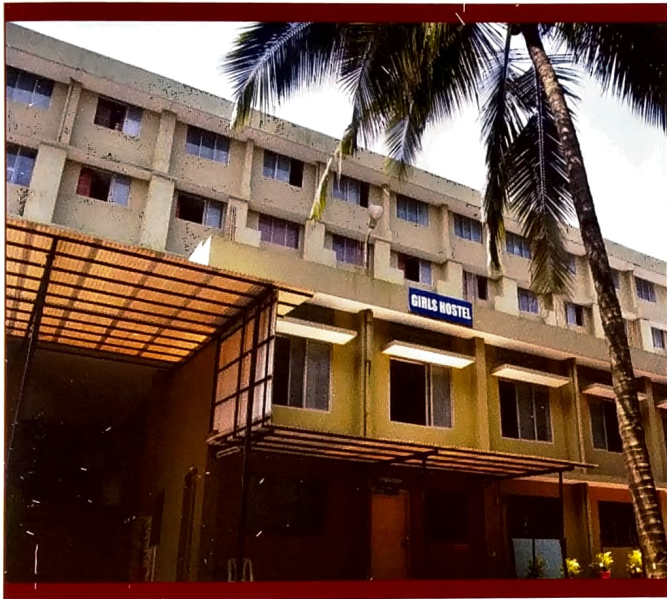
Throw ball for women. Sports day is conducted in the even semester with all the athletic events.

### **Dispensary and Counseling Centre**

The college campus has a ten bed dispensary with basic facilities to meet the immediate health care needs. The dispensary is linked with Fr Muller Hospital.

### **Hostel Facilities**

The Campus provides hostel facilities for students with an atmosphere much like home away from home. It provides them with all the necessary facilities which help them to acclimatize well with the new ambience. Every hostel has its own mess which caters healthy and tasty food.



### **Transport Facility**

The Campus provides bus facilities for the students with a fleet of well maintained buses which ply to several areas in and around Mangalore

### **Central Computer Centre**

The Central Computer Centre (CCC) is the nerve centre of campus wide network. CCC consists of two laboratories for Internet Browsing and one laboratory for Basic Computing. CCC provides system administration and technical support which include Software installation, Configuration of servers

and desktops/laptops, Network monitoring (both wired & wireless), Internet sharing etc. CCC also conducts in-house traipossesses a Cisco 1841 router and Layer 3 Net gear switches, which connects the campus with the outer world via 100 Mbps Internet leased line provided by BSNL. Fiber Optic links stretch from CCC to hostels, amenity block, academic blocks and other places throughout the campus. The Wi-Fi facility distributed throughout the campus using 70 high configured wi-fi devices.



### **Veg and Non-Veg Cafeterias**

The canteen at St Joseph Engineering College is known for its student friendly environment. It provides a wide variety of delicacies to cater to the tastes of each individual. There are separate sections for vegetarians and non-vegetarians. It can accommodate nearly 250 students at a time.







# ST JOSEPH ENGINEERING COLLEGE

Vamanjoor, Mangaluru - 575028, Karnataka, India

Affiliated to Visvesvaraya Technological University and recognized by All India Council for Technical Education, New Delhi

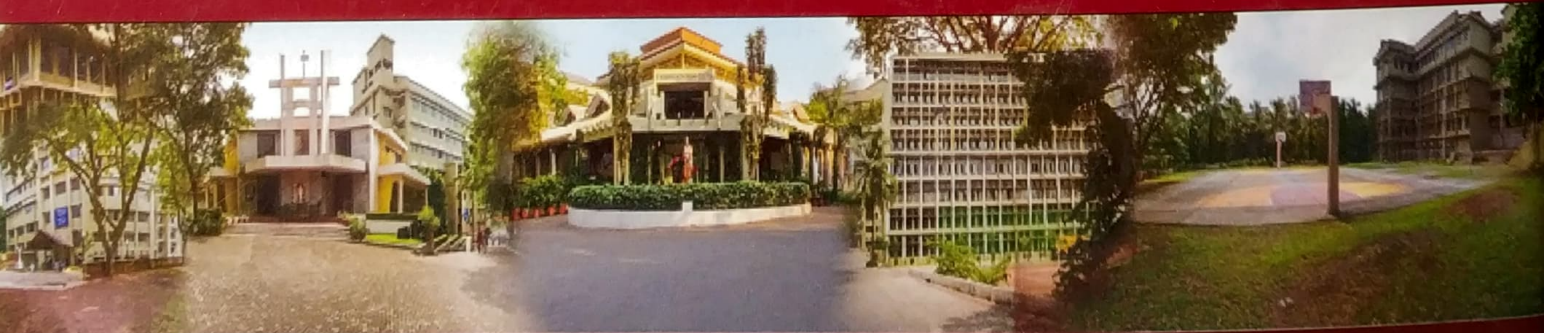
(B.E-CSE,ECE,EEE & ME Accredited by NBA, New Delhi)

Website: [www.sjec.ac.in](http://www.sjec.ac.in) E-mail: [sjec@sjec.ac.in](mailto:sjec@sjec.ac.in) Fax: 91-824-2263751 Phone: 91-824-2263753/54/55/56

Director: 91-824-2263758 (O), 91-824-2263752 (R) Principal: 91-824-2263732 (O), 91-824- 6452176 (R)

**For Admission: [admissions@sjec.ac.in](mailto:admissions@sjec.ac.in), 91-824-2868106**

COMED-K Code:E 140,CET Code:E 129, E 514 (2nd Shift M.E.)



## SERVICE AND EXCELLENCE



# BROCHURE

## 2016 - 17



**ST JOSEPH ENGINEERING COLLEGE**  
**VAMANJOOR, MANGALURU - 575 028, KARNATAKA**

(Affiliated to Visvesvaraya Technological University and recognised by the AICTE, New Delhi  
B.E.-CSE, ECE,EEE,ME Accredited by NBA, New Delhi).



*Motto of the College*  
**Service and Excellence**

*Vision of the College*  
**To be a global premier  
Institution of  
Professional Education  
and Research**

## **MISSION**

- Provide opportunities to deserving students of all communities, the Christian students in particular, for quality professional education
- Design and deliver curricula to meet the national and global changing needs through student-centric learning methodologies
- Attract, nurture and retain the best faculty and technical manpower
- Consolidate the state of art infrastructure and equipment for teaching and research activities
- Promote all round personality development of the students through interaction with alumni, academia and industry
- Strengthen the Educational Social Responsibilities.

## **The College**

St Joseph Engineering College, Vamanjoor, Mangaluru a premier institution; a hub for Creativity and Innovative Ideas in Engineering, was established in the year 2002 with an aim to educate youth in Engineering & Technology. SJEC is Affiliated to Visvesvaraya Technological University, Belgaum, in Karnataka State and recognized by All India Council for Technical Education (AICTE), New Delhi.

SJEC is a Christian minority College, but is open to students of all communities without distinction of religion or caste. It is professionally managed and forms a part of over 250 educational institutions of the Diocese of Mangalore, Located in an idyllic place at Vamanjoor, just 10kms away from Mangalore city.

## **SALIENT FEATURES**

- Beautiful campus spread over 40 acres of land
- Peaceful and most conducive environment for academic excellence
- The institute provides technical & spiritual environment that is conducive to the personal & professional development of the student.
- Spacious well equipped laboratories
- The College has an All India image as well as an exposure to International students
- Highly experienced, Trained and dedicated faculty team
- Well equipped Library and online resources
- Active Professional Societies: ISTE and IEEE.
- Student Clubs: SAEINDIA – SJEC Collegiate Club, Automation and Robotics Club.
- In house LabVIEW Academy.
- Regular soft-skills training and value education classes.
- Computer centre, internet, wi-fi connectivity
- Interlinking of departments through OFC and intranet
- Spacious Play Grounds for outdoor games, Indoor Games and Gymnasium
- Canteen and Cafeteria facilities to serve the delicious food to students and staff
- Training and Placement support through Training & Placement Cell
- Nationalized Bank branch with ATM
- Hostels for 480 boys, 352 girls
- 24 hours full time campus security
- A Chapel to meet the spiritual needs
- Staff Quarters for Resident faculty members on campus
- Guest House to accommodate guests across the country and abroad
- Dispensary to provide the basic medical need
- College buses provide transport to and from Mangalore, Moodabidri and Surathkal
- Separate Utility Block comprising of Canteen, STD booth, General Stores & bank extension counters to assist the students.



## PROGRAMMES ACCREDITED BY NBA, NEW DELHI

The following B.E. Programmes have been provisionally accredited by National Board for Accreditation (NBA) New Delhi

Sl. No.	Name of the Programme - UG	Period of Validity w.e.f. 01-01-2014
1.	Mechanical Engineering	2 years
2.	Computer Science & Engineering	2 years
3.	Electrical & Electronics Engineering	2 years
4.	Electronics & Communications Engineering	2 years



### WHY SJEC ?

**NBA Accredited Programmes:** One among the very few colleges in the region which has a current Accreditation from NBA, New Delhi, for four BE programmes.

**Discipline:** College has a reputation for discipline which reflects in the graduates who pass out.

**Rigorous Evaluation:** College maintains rigorous standards of evaluation so that graduates will have actually earned their marks.

**Faculty:** Dedicated team of faculty with 18 Doctorates, 21 pursuing Ph.D and 134 Postgraduates.

**Placements:** Leading in number of placements made in reputed companies among colleges in this region.

**Soft Skills Training:** College has tied up with corporate trainer I-Point Consulting to train students on Soft Skills.

**Interaction with Industry:** College has tied up with Infosys for Campus Connect, with EMC2 for training on Storage Technologies and with IBM for training on Rational Rose.

**Tech Fests:** Students organize tech fests which have acquired their own brand-value.

**Students Projects:** Students execute industry relevant projects which have received accolades for innovation.

**Results:** College has been consistently topping the region in terms of university exam results of students & a tradition of securing VTU RANKS.

**College of Choice:** Most of the seats in the college get filled within the first few rounds of counseling.



## *Director's Message*



Business around the globe has become highly competitive and is also facing turbulent times. In such times, we look for best resource that contains competence, courage, confidence and values contributing to the growth of the corporation or organization. Creating such professionals is an arduous task of a good educational institution. SJEC in its short span of fourteen years is committed in contributing such human resource to the corporations.

We are collaboratively focused to become a premier institute, offering value based learning that fosters innovation, leadership and holistic human development meeting stakeholder's aspirations. We are certain that our students have such energy in them like fire to make a big difference to businesses around the globe. The competent knowledge and leadership skills that they acquire in a serene campus like ours, greatly helps them to transform into promising professionals.

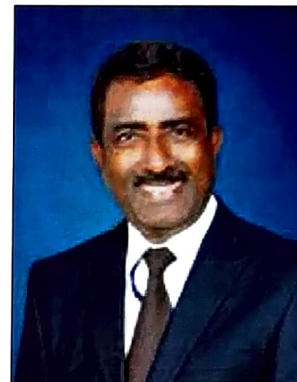
I am very much pleased to place this brochure in your hands. We are very confident that our engineers, managers and professionals will meet your expectations and contribute what you are looking for to your organization. We know that they will only become contributors, collaborators, team players and leaders.

We warmly welcome you to our campus and look forward to your great support, cooperation and encouragement.

Fr Joseph J. Lobo  
Director - SJEC



## *Principal's Message*



I am immensely pleased to present this brochure, which will provide the bird's eye view about the institution. Certainly, there is a lot to tell about the campus, the courses, the laboratories, highly qualified faculty, amenities and above all the students and their performance.

Through the five undergraduate and three Master level programmes in Engineering, and Master level programmes in Computer Applications and Business Administration, the vibrant campus is providing education to about 2400 students who are academically bright and technically sound. The spirit of service and excellence, the motto of our college always enlivens every "Josephite" and therefore the product of St Joseph Engineering College comes with high academic quality, discipline, having good interpersonal skills, very responsible and professionally ready to take charge. The employers of our Alumni give us their feedback and we are proud to say that they are highly appreciated at their work places.

We are confident that the succession of students who leave the portals of the college will keep up the rich tradition of excelling wherever they are. I am sure that this brochure will certainly create a lasting impression for the discerning reader. I thank everyone who has worked hard in bringing this brochure so impressively.

Dr Joseph Gonsalvis  
Principal, SJEC



## PROGRAMMES OFFERED

### B.E. DEGREE PROGRAMMES

- Mechanical Engineering
- Electrical & Electronics Engineering
- Electronics & Communication Engineering
- Computer Science & Engineering
- Civil Engineering

## MECHANICAL ENGINEERING

Accredited by NBA

**Vision of the Department: To be a value based department committed to excellence in teaching and research, nurturing technically competent and socially responsible engineering professionals.**

The Mechanical Engineering Department, SJEC, strives to prepare students for careers across a broad range of industries such as automotive, manufacturing, materials and metallurgy, oil and gas, and aeronautical. The department houses a full-fledged Research Center (approved by VTU, Belgaum) offering M.Sc (Engg) by research and Ph.D programs.

### Laboratories:

- Energy Conversion Engineering Lab
- Heat & Mass Transfer Lab
- Fluid Mechanics & Machines Lab
- Metallography and Material Testing Lab
- Mechanical Measurements & Metrology Lab
- Design Lab
- Computer Aided Modeling & Analysis Lab
- CIM & Automation Lab
- Foundry & Forging Lab
- Computer Aided Machine Drawing Lab
- Machine shop & WorkShop Practice
- Computer Aided Engineering Drawing Lab

The following research facilities are installed to promote innovative academic project works for the students and facilitate state-of-the-art research by the faculty.

- Pin-on-Disk Wear Tester
- Engine Test Set-ups for Research
- Computerised Variable Compression Ratio Diesel Engine Test Rig
- Wind Tunnel Facility
- Smokemeter/ Emission Testing facility
- Materials Research Facility

To facilitate the overall personality development of its students, the Department of Mechanical Engineering has set up a students' association TORQUE, under the aegis of which, activities are carried out to improve the soft skills and learn skills outside the realm of curriculum.

## ELECTRICAL & ELECTRONICS ENGINEERING

Accredited by NBA

**Vision of the Department: Excel in Electrical Engineering Education and Research**

The department is committed:

- To develop necessary skills in students, through rigorous global education and an appreciation for life long learning for successful and satisfying careers.
- To provide students with the solid foundation in mathematical, scientific and electrical engineering to analyze data and technical concepts for application to product design and also to pursue higher education.
- To train students with good scientific and engineering breadth, including proficiency in software language and use of latest software tools so as to comprehend, analyze, design and create novel products and solutions for the real life problems.
- To inculcate in students professional and ethical attitude, effective communication skills, team work skills, multi-disciplinary approach and an ability to relate engineering issues to broader social context.

The Department has following well-equipped state-of-the-art laboratories to meet and exceed VTU and AICTE requirements.

They are:

- Analog Electronics Lab
- Logic Design Lab
- Power Electronics Lab
- Circuit Simulation and Measurements Lab
- Transformers and Induction Machines Lab
- Control System Lab
- DC Machines & Synchronous Machines Lab
- Relay and High Voltage Lab
- Power System Simulation Lab
- Micro Controller Lab
- Reverse Engineering / Project Lab
- Computer Aided Electrical Drawing Lab

The student project/staff research laboratory is equipped with latest state of the art instruments which enable students to undertake projects and research in emerging technologies and post graduate studies.

### Licensed Software:

- MATLAB
- SPGC Compiler
- SCRAM C for ARM 7
- Lab VIEW
- ETAP

### Free Software:

- ORCAD- PSPICE
- TURBO C++
- Kiel



## CIVIL ENGINEERING

**Vision of the Department: To impart technical education and nurture research in Civil Engineering to meet the needs of the society.**

Department was established in the year 2012 to offer Bachelor of Engineering (BE) degree program in Civil Engineering with annual intake of 60. The undergraduate curriculum is designed to introduce the students to a wide range of problems encountered by Civil Engineers in the field. Survey camps and practical training are a part of the curriculum aimed at familiarizing the students with actual problems.

**Students are trained in the following laboratories:**

- Material Testing Lab
- Surveying Lab
- Applied Engineering Lab
- Geology Lab
- Hydraulics Lab
- Computer Aided Design Lab
- Geotechnical Engineering Lab
- Environmental Engineering Lab
- Concrete and Highway Lab

Students learn to plan, design and analyze structures. They also learn to estimate the cost of construction.

The department has experienced faculty members who are actively involved in teaching and research, to guide the students.

## COMPUTER SCIENCE AND ENGINEERING

Accredited by NBA

**Vision of the Department: To be recognized as a centre of excellence in computer and allied areas with quality learning and research environment**

The undergraduate program is offered with a unique combination of courses and projects that help its students to cope up with the recent advancement in the Computer and IT industry. The primary objective of this program is to prepare students for successful careers in computer and Information Technology industry that meet the needs of Indian and multinational organizations. The program involves wide variety of courses which facilitate the students to formulate, solve and analyze computer engineering problems, prepare them for graduate studies and develop the ability to synthesize data and technical concepts for application design & implementation of real time software products.

The Department has eight well-equipped state-of-the-art laboratories to meet the computing needs of students. They are:

- Data structures and Algorithms Lab
- Electronic circuits and Microprocessors Lab
- Databases and Computer Graphics Lab
- System Software and Operating Systems/ Unix and Compiler Design Lab

- Network Programming Lab
- Web Programming Lab
- Advanced Computing Lab 1
- Advanced Computing Lab 2

Each laboratory has a spacious carpet area of 105.6 sqm to accommodate 35 students working on locally networked computers with latest configurations. The laboratories and class rooms are equipped with LCD and other necessary teaching aids.

## ELECTRONICS & COMMUNICATION ENGINEERING

Accredited by NBA

**Vision of the Department: To excel in Electronics and Communication Engineering education and research, focusing on the needs of industry and society, with professional ethics**

The ECE Department set up from the inception of the college in 2002 has created a large number of new facilities for students, including a professional PCB fabrication facility. Lab view, Multisim and Mentor Graphics software used in industrial R&D Laboratories. Department offers undergraduate & post graduate students facilities to become successful Engineers.

**The laboratories are:**

- Student Project/Staff Research lab
- Logic Design Lab
- Analog Electronics Lab
- Micro controller Lab
- HDL lab
- AC+LIC Lab
- DSP Lab
- Microprocessor Lab
- Advanced Communication Lab
- Power Electronics Lab
- VLSI Lab
- Student Project / Staff Reserch

**Software:**

- Tanner Tools
- MATLAB Software
- SPJ Compiler
- SCRAM C for ARM
- LABView
- Model SIM xilinx
- MEMO Pro
- Code Composer Studio
- Cadence
- Multisim

The Student project/staff research lab is equipped with the latest state of the art instruments which enable students and staff to undertake projects & research in emerging technologies and post graduate studies.





## POST GRADUATE DEGREE PROGRAMMES

### MBA DEGREE PROGRAMMES (FINANCE/HR/MARKETING)

The Department of Business Administration offers a two-year, full-time MBA programme recognized by AICTE, New Delhi and Department of Technical Education, Government of Karnataka. The MBA programme is affiliated to Visveswaraiah Technological University, Belgaum. The Department offers three specializations in MBA namely **Finance, Marketing and Human Resource Management**. The Department is a recognized Research Centre of Visveswaraiah Technological University, Belgaum, and offers PhD programme in Business Administration.

#### STRENGTHS

- Contemporary curriculum
- Excellent Faculty
- Diverse student profile
- Career Placements
- Separate library with good collection of books
- Gavel club affiliated to Toastmasters International

### MCA DEGREE PROGRAMME

Master of Computer Applications programme was started at St Joseph Engineering College in the year 2008. MCA programme is affiliated to Visveswaraiah Technological University and approved by AICTE, New Delhi. The programme is of three years duration with five semesters of course work and one semester of project work in the industry.

## SIGNIFICANT FEATURES

### FACULTY

The high results are a testimony to the effort of highly qualified and dedicated faculty, who, besides being role models, provide a caring atmosphere for learning what gives SJEC an unique flavor is the care taken by the management to make every faculty student centric. There are 18 Ph.D qualified teachers, 21 are pursuing Ph.D. and 134 Post graduate teachers.

#### STRENGTHS

- Consistent record of excellent results (above 90%)
- 80% of the faculty have more than 5 years of experience
- Well equipped laboratories with 100% licensed software
- 100% placement of all eligible students who have consistent academic record of above 60%
- Consistently emerged as champions in various fests across the district

#### OTHER POST GRADUATE DEGREE PROGRAMMES

- M.Tech in Power Electronics (E&E Dept)
- M.Tech in Computer Science & Engineering (CS&E Dept)
- M. Tech in Digital Electronics & Communication Systems (E&C)

#### RESEARCH PROGRAMMES

- M. Sc. (Engg) In Mechanical Engineering
- M. Sc. (Engg) In Computer Science & Engineering
- M. Sc. (Engg) In Electrical & Electronics Engineering
- M.Sc. (Engg) in Electronics and Communication Engineering

#### PH.D. PROGRAMMES

- Physics
- Chemistry
- Mathematics
- Mechanical Engineering
- Computer Science & Engineering
- Electrical & Electronics Engineering
- Business Administration

#### THE CENTRAL LIBRARY

(Member of DELNET and NITK)

The Central Library, perhaps one of the best in the region is spread over 1689 sq. mtrs. in two floors, and can accommodate 445 students at a time. It provides access to a range of databases on the campus network, e-resources and OPAC - related access to its vast collection. Its collection of about 40 thousand is used by more than 2500 members. It has a separate digital library section, group study area and private study area. It provides high-quality



ambience for study. There are also department level libraries in all the departments. The Institute strives to provide the latest and best collection of books, journals, online resources, dissertations to students for course work and research.

### Highlights

- IP based access to AICTE E-Resources
- Access to Online Library Catalogue
- Access to E-Question papers
- Digital Library with IT infrastructure
- Resource sharing through DELNET, NITK- Surathkal.
- Barcode Technology.
- CCTV surveillance system

### CO-CURRICULAR AND EXTRACURRICULAR ACTIVITIES

For the all round personality development of students, the college provides forums like; NSS, Red Cross, AICUF, Human Rights Club & Departmental Associations like EELS, IEEE, Prodigy, Genesis, Cipher, ISTE, Torque, Intaglio, Technocrats, Industry Interaction Cell, Innovation Club, Entrepreneurship Dev. Cell, Gavel Club, Nirman and Sigmaths.

### SPORTS

The Physical Education Department of our college is committed to maintain the physical fitness of students throughout their studies at SJEC.

Physical Education Department is well established with all sports and games amenities:

- 400mts Athletic track.
- Football and cricket fields.
- Volley ball courts, Throw ball courts and Basketball court
- Four shuttle badminton courts are maintained for both men and women.
- A well equipped multi gymnasium facility separately for boys & girls in their respective hostels.
- Indoor facilities like table tennis, carom & chess etc.

The college sports and games teams have participated in Cricket, Basketball, Football, Throw ball, Volley ball, Hand ball, Hockey, Table tennis, Swimming, Chess and Athletics in the VTU zonal and inter zonal levels and won many prizes. In the odd Semester the department conducts inter class Foot ball, Basket ball for men, Volleyball, Shuttle Badminton, Chess, Table tennis for men and women and Throw ball for women. Sports day will be conducted in the even semester with all the athletic events.

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### VEG AND NON-VEG CAFETERIAS

The canteen at St Joseph Engineering College is known for its student friendly environment. It provides a wide variety of delicacies to cater the tastes of each individual. There are separate sections for vegetarians and non-vegetarians. It can accommodate nearly 250 students at a time.

### TRAINING AND PLACEMENT

SJEC endeavours to maximize each student's professional and social skills and prepare them for responsible positions at the place of work. During the stipulated period of study, several soft skills are also developed in the students leading to their ability to Learn, work and pursue specific objectives in a manner which is both self-motivated and responsive to appropriate tasks. The soft skills programme includes; communication Skills, English and Business Communication, Time Management, Team Building and Leadership, Social and Business Etiquette, Presentation Skills.

The College Placement Department offers training to students to face interviews successfully. A number of reputed companies like Tata Consultancy Services, HCL Technologies, Mindtree, Robert Bosch, Anglo Eastern Ship Management, Celstream, Global e-soft, Hewlett Packard, ITC Infotech, IBM, Samudra Institute of Maritime Studies, Karmic, Microsoft, Nandi Toyota, Robosoft, Span Infotech, SLK Software, Societe Generale, Tech Mahindra, Jindal Steel Works, L & T Integrated, Toyota Kirloskar, IBM, Oracle, UPCL, Persista nt, Cognizant, KPMG, Diya Systems and a few other local companies have recruited our students for employment. Over the past 3-4 years, the college enjoys the reputation of a good provider of service oriented technical personnel.



# TRAINING & PLACEMENT ACTIVITIES 2015 – 2016

The campus placement season for the year 2015-2016 began with TCS, one of the top five IT Companies in India, visiting the SJEC campus for placement drive.

Prior to the commencement of the placement season, aptitude training was conducted for final year students to help them prepare for the forthcoming placements. The Ignitia Series of Motivational Talks by experts from industry was also scheduled for students throughout the season.

**TCS was offered the Day-Zero slot for this placement year. 67 students were selected to join TCS.** Following this, Mu Sigma, a well-known upcoming data analytics company hired 2 students from SJEC to join their esteemed organization. This was followed by **ITC Infotech** and **Tech Mahindra** as a Day-1 slot sharing companies. ITC Infotech hired 17 students where as Tech Mahindra hired 32 students.

**Indian Navy** visited SJEC for conducting their interview sessions. It was a pool campus drive. The interview process was very different and interesting. Shortlisted students will undergo the SSB interviews in the coming months. **Robosoft Technologies** a Mobile app development company based in Udupi visited our college for hiring our students. **Global Esoftsys** an esteemed organization having office at multiple locations hired 5 students.

**IBM** one of the IT giants hired a big number of 24 students this year. There were new companies like **Analytics Quotient**, **Cigital India**, and **Mindtree**, who recruited fresh talents from SJEC. **L&T Infotech** head quartered in Mumbai visited SJEC to conduct a pool campus drive where 16 colleges participated in

the drive. In all 32 students from various colleges inclusive of 9 students from SJEC were selected.

**Samundra Institute of Maritime Studies** also visited SJEC in the month of November to conduct a pool campus drive. Polycab wires visited the Mangalore to conduct pool campus for all the eligible Mechanical and Electrical students. One student from SJEC has been offered to join **Polycab Wires**. **Persistent System** based out of Goa having office branches at Bangalore and Pune conducted an online campus drive this year. They monitored the online test which was conducted for 249 students remotely and also conducted Skype interviews. 2 students from SJEC have been offered to join them.

**The Manipal Group** one of the prominent players in the education industry, and having multiple industries under their wings, visited SJEC to conduct the campus drive and selected 7 students to join their esteemed organization. **Maventic**, **Laurus Infosystem**, **Wipro** conducted a pool drive for MCA students. 1 student for Maventic, 2 for Laurus and 5 for MCA have been selected.

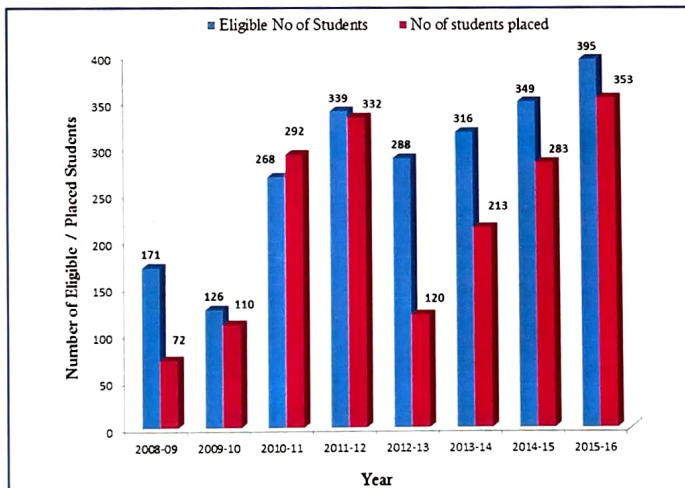
**Karmic Semiconductors** a core company for EC & EE conducted the recruitment drive in their company premises and 3 students from SJEC were offered. **NGCN** a software company based out of Suratkal conducted a campus drive in our premises for MBA students. 8 MBA students have been for internship and employment thereafter. By the end of the odd semester so far **227 students** had been offered to join the various companies mentioned above.

**Cadence** a core company for EC stream had conducted a pool event in Mangalore where 500+ students from various colleges took part in the interview process and only 1 student was selected after rigorous rounds of interview. We are proud to state that this student is from SJEC.

More companies Like Mphasis, Samundra Institute Maritime studies, Anglo Eastern Ship Management, Mangalore Infotech conducted campus event in SJEC and a good number of students have been selected.

**SAP Labs** one of the renowned name in the IT industry visited SJEC to conduct a pool event and a total of 10 students were selected of which 3 students belonged to SJEC. Subex visited us in the end of the final semester and hired about 3 students.

**SJEC stands tall with a placement number of 352.**



## Companies Visited



## STREAM WISE JOB OFFERS FOR 2015-16

Details	CS	IS	EC	EE	ME	CV	MBA	MCA
Eligible Students 60% throughout	70	25	86	27	89	37	23	7
Eligible Students placed	68	20	80	27	55	6	10	7
% of Eligible students placed	97	80	93	100	62	16	43	100

### Key Achievements

3 of the Top IT companies visit SJEC

TCS, Microsoft, HP,

Highest number of offers – 353

Highest number of Day-One offers – 67 offers

Highest number of single offers – 280 plus

Highest package among companies visiting SJEC –

**SAP & Microsoft – 9 lacs p.a**

**Josephites' enter top Core Companies**

**BOSCH: In 2015 – SJEC Topped the Karnataka State with 5 placements**

**EDS Technologies**

**Kaynes Technologies**

**Sankalp SemiConductors**

**Cadence**

**Karmic SemiConductors**

First International company visited SJEC for Placement Drive – **Gulf Contracting Company**

### FACILITIES FOR VISITING COMPANIES:

Besides a hearty welcome, The Training & Placement Cell is well equipped with excellent infrastructure to support each and every stage of the placement processes in the campus such as the pre-placement talk rooms, group discussion rooms, sufficient number of interview rooms, dedicated internet connectivity for the online examination, faculty/Student volunteers for prompt action on the day of visit and arrangement for stay at college guest house.

### CONTACT DETAILS:



**Ms Sangeeta Ferrao**  
 Placement Officer  
 Phone : 0824-2263763  
 Mobile :+91 9008752809  
 Email : placement\_sjec@sjec.ac.in







# ST JOSEPH ENGINEERING COLLEGE

## VAMANJOOR, MANGALURU - 575 028, KARNATAKA

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Tel: 0824-2263753/54/55/56, 2263951/52 Email: [sjec@sjec.ac.in](mailto:sjec@sjec.ac.in) Fax: 0824-2263751 Website: [www.sjec.ac.in](http://www.sjec.ac.in)





# ST JOSEPH ENGINEERING COLLEGE

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*Your Gateway to Success*

**P R O S P E C T U S**





## *Director's Message*

Welcome to St Joseph Engineering College.

I take great delight to introduce you to our college. I hope this brochure will help you to explore the many opportunities our College offers to shape your future as a prospective student and a person who dreams of a successful career. I know you have a very important choice to make at this point of time. This brochure will assist you to reflect more deeply in making that choice.

SJEC is affiliated to Visvesvaraya Technological University, Belgaum, Karnataka State and is recognized by the All India Council for Technical Education (AICTE), New Delhi, India established in 2002. Four of our B.E. programmes are accredited by National Board of Accreditation (NBA). The College offers top class education in Engineering, Business Administration and Computer Applications at UG, PG and Research levels. It has well qualified staff, state of the art laboratories and all facilities. Presently about 2400 students are studying in the College.

We are ranked as one of the best colleges based on our student performance, quality education, job placements and the outstanding performance of our students in the industries where they are placed. The College provides for a wide variety of co-curricular and extra-curricular activities which give a head-start to students, developing their personality and imparting skills of decision-making and leadership.

“Service and Excellence” that is the motto of St Joseph Engineering College (SJEC). An SJEC education provides students with the tools to realize their potential and the courage and vision to use this education in service of humanity. Education at SJEC encourages creativity, confidence, commitment and competence. At SJEC, students gain the knowledge, skills and self-confidence they need to make a difference in their lives and in our fast-paced, ever-changing world.

SJEC provides a value-centered engineering and management education grounded in faith, ideals of truth and respect, shaping our students as ethical professionals. Our aim is to ensure that students have the skills necessary to succeed in today's competitive job market with such balance. The faculty we employ come from different backgrounds, and are specially chosen for their industry experience as well as for their teaching excellence. Together with the management of the college, the faculty constantly strives to provide students a holistic campus experience which moulds them into lifelong learners.

I look forward seeing you at SJEC. For more details do visit our campus website – [www.sjec.ac.in](http://www.sjec.ac.in)

**Fr Joseph J. Lobo**  
Director - SJEC



*Motto of the College*  
**Service and Excellence**

*Vision of the College*  
**To be a global premier  
Institution of  
Professional Education  
and Research**

## MISSION

- Provide opportunities to deserving students of all communities, the Christian students in particular, for quality professional education
- Design and deliver curricula to meet the national and global changing needs through student-centric learning methodologies
- Attract, nurture and retain the best faculty and technical manpower
- Consolidate the state of art infrastructure and equipment for teaching and research activities
- Promote all round personality development of the students through interaction with alumni, academia and industry
- Strengthen the Educational Social Responsibilities.

## The College

St Joseph Engineering College, Vamanjoor, Mangaluru a premier institution; a hub for Creativity and Innovative Ideas in Engineering was established in the year 2002 with an aim to educate the youth in Engineering & Technology. SJEC is Affiliated to Visvesvaraya Technological University, Belgaum, in Karnataka State and recognized by All India Council for Technical Education (AICTE), New Delhi. SJEC is a Christian minority College, but is open to students of all communities without distinction of religion or caste. It is professionally managed and forms part of over 250 educational institutions of the Diocese of Mangalore, located in an idyllic place at Vamanjoor, just 10kms away from Mangalore city.

## WHY SJEC ?

- **NBA Accredited Programmes:** One among the very few colleges in the region which has a current Accreditation from NBA, New Delhi, for four BE programmes.
- **Discipline:** The College has a reputation for discipline which is reflected in the graduates who pass out.

## SALIENT FEATURES

- Beautiful campus spread over 40 acres of land
- Peaceful and most conducive environment for academic excellence
- The Institute provides a technical & spiritual environment that is conducive to the personal & professional development of the student
- Spacious well equipped laboratories
- The College has an All India image as well as an exposure to International students
- Highly experienced, trained and dedicated faculty team
- Well equipped Library and online resources
- Computer centre, internet, wi-fi connectivity
- Interlinking of departments through OFC and intranet
- Spacious Play Grounds for outdoor games, Indoor Games and Gymnasium
- Canteen and Cafeteria facilities to serve the delicious food to students and staff
- Training and Placement support through Training & Placement Cell
- Nationalized Bank branch with ATM
- Hostels for 480 boys, 352 girls
- 24 hours full time campus security
- A Chapel to meet spiritual needs
- Staff Quarters for Resident faculty members on campus
- Guest House to accommodate guests across the country and abroad
- Dispensary to provide basic medical needs
- College buses provide transport to and from Mangalore, Moodabidri and Surathkal
- Separate Utility Block comprising of Canteen, STD booth, General Stores & Bank extension counters to assist the students.

➤ **Rigorous Evaluation:** The College maintains rigorous standards of evaluation so that graduates will have actually earned their marks.

➤ **Faculty:** Dedicated team of faculty with 18 Doctorates, 21 pursuing Ph.D and 134 Postgraduates.

➤ **Placements:** Leading in number of placements made in reputed companies among colleges in this region.

➤ **Soft Skills Training:** College has tied up with corporate trainer I-Point Consulting to train students in Soft Skills.

➤ **Interaction with Industry:** College has tied up with Infosys for Campus Connect, with EMC2 for training on Storage Technologies and with IBM for training on Rational Rose.

➤ **Tech Fests:** Students organize tech fests which have acquired their own brand-value.

➤ **Students Projects:** Students execute industry relevant projects which have received accolades for innovation.

➤ **Results:** College has been consistently topping in the region in terms of university exam results with a tradition of securing VTU RANKS.

➤ **College of Choice:** Most of the seats in the college get filled within the first few rounds of counseling.



## PROGRAMMES OFFERED

### B.E DEGREE PROGRAMMES

- Mechanical Engineering
- Electrical & Electronics Engineering
- Electronics & Communication Engineering
- Computer Science & Engineering
- Civil Engineering

#### Eligibility:

**Admission to First Semester B.E. :** The candidates shall have passed second year Pre-University or XII standard or equivalent examinations with minimum 45% (40% for SC/ST and OBC Karnataka candidates) marks in Physics and Mathematics along with one of the following subjects: Chemistry, Bio Technology, Computer Science, Biology, and Electronics. Candidates must have studied English as one of the subject in PUC. CET or COMEDK score is needed for the seats coming under government or minority quota. A few seats are reserved under NRI quota.

**Admission to Third Semester B.E. (Lateral Entry):** A candidate who has passed any diploma examination or equivalent examination and obtained an aggregate minimum of 45% marks taken together in all the subjects of the final year (fifth and sixth sem) Diploma Examination is eligible for the admission to II year B.E Courses, and 40% of marks in the case of SC, ST and Backward Classes Karnataka candidates.

### POST GRADUATE DEGREE PROGRAMMES

#### MBA Degree Course (Finance/HR/Marketing)

**Eligibility :** Graduates in any discipline with 50% marks in aggregate (45% for SC/ST/Cat-I) are eligible.

**Government Quota:** Candidates should appear for PG CET and the seats are filled through centralized counseling.

**Management Quota:** Seats are based on the percentage scored in the graduation course and the percentile obtained in the KMAT/CMAT entrance test.

#### MCA Degree Course

**Eligibility :** Bachelor's Degree, min 50% (45% for SC/ST, Category I) marks. Must have studied Maths/ Business Maths/ Statistics/Computer

Programming/Computer Science/Computer Applications at graduate or plus-2 level with min 50% marks. A pass in KMAT or PG CET.

#### M.Tech in Power Electronics (E&E Dept)

**Eligibility:** Bachelor's Degree in Electrical & Electronics, Electronics & Communication/ Instrumentation Technology/ Telecommunication. AMIE in appropriate branch with not less than 50% (45% for SC/ST/Cat-I) marks.

#### M.Tech in Computer Science & Engineering (CS&E dept)

**Eligibility:** Bachelor's Degree in Computer Science and Engineering/ Electronics & Communication Engineering / Electrical & Electronics Engineering/ Information Science Engineering/ Instrumentation/ Telecommunication Engineering or equivalent degree; AMIE in appropriate branch with not less than 50% (45% for SC/ST/Cat-I) marks.

#### M.Tech in Digital Electronics & Communication Systems (E&C)

**Eligibility:** Bachelor's Degree in Electronics & Communication/ Electronics & Telecommunication / Telecommunication or equivalent degree; AMIE in appropriate branch with not less than 50% (45% for SC/ST/Cat-I) marks.

(Note: Candidate should have a valid GATE score or PG CET Rank)

## RESEARCH PROGRAMMES

#### M.Sc. (Engg) in Mechanical Engineering

**Eligibility:** A Bachelor's degree in Mechanical Engineering/ Industrial & Production Engineering with 60% marks.

#### M.Sc. (Engg) in Computer Science & Engineering

**Eligibility:** Candidates who have passed B.E/ B.Tech (relevant discipline) Examination of VTU or any other recognized University, recognized by VTU as equivalent thereto and have passed the prescribed qualifying examination with not less than 60% of the marks in the aggregate, in the examinations of the semesters considered for the declaration of class/grade. [For detailed criteria, refer VTU regulations governing the degree of Master of Science in Engineering by research]

#### M.Sc. (Engg) in Electrical & Electronics Engineering

**Eligibility:** A Bachelor's degree in Electrical and Electronics with 60% marks.

## Ph.D. PROGRAMMES

#### Physics

**Eligibility:** MSc Degree with minimum 60% marks.

#### Chemistry

**Eligibility:** MSc Degree with minimum 60% marks.

#### Mathematics

**Eligibility:** MSc Degree with minimum 60% marks.

#### Mechanical Engineering

**Eligibility:** MTech in related discipline.

#### Computer Science & Engineering

**Eligibility:** MTech in related discipline.

#### Electrical & Electronics Engineering

**Eligibility:** MTech in related discipline.

#### Business Administration

**Eligibility:** MBA degree with a minimum CGPA of 6.75 out of 10 or 60% aggregate marks.



# Mechanical Engineering

Accredited by NBA

**Vision of the Department:** To be a value based department committed to excellence in teaching and research, nurturing technically competent and socially responsible engineering professionals

Mechanical Engineering involves the application of principles of physics, mathematics and materials science to conceive, design, manufacture, operate and maintain mechanical systems and processes.

The Mechanical Engineering Department, SJEC, strives to prepare students for careers across a broad range of industries such as automotive, manufacturing, materials and metallurgy, oil and gas, and aeronautical. The department houses a full-fledged Research Center (approved by VTU; Belgaum) offering M.Sc (Engg) by research and Ph.D programs.

The Department has a dedicated, qualified and experienced team of Faculty, Technical and Supporting Staff. The faculty-student ratio in the Department is less than 1:15. The department has the advantage of having 10 faculty members with teaching experience of more than 20 years in its ranks. Among the faculty members, 7 are Doctoral Degree holders, 26 have a Master's Degree & 3 faculty members are currently pursuing their Doctoral Degree. The Students undergo their practical training sessions with the help of eleven qualified and experienced Technical Staff members.

## Laboratories:

- Energy Conversion Engineering Lab
- Fluid Mechanics & Machines Lab
- Mechanical Measurements & Metrology Lab
- Computer Aided Modeling & Analysis Lab
- Foundry & Forging Lab
- Machine shop & WorkShop Practice
- Heat & Mass Transfer Lab
- Metallography and Material Testing Lab
- Design Lab
- CIM & Automation Lab
- Computer Aided Machine Drawing Lab
- Computer Aided Engineering Drawing Lab

The following research facilities have been installed to promote innovative academic project works for the students and facilitate state-of-the-art research by the faculty.

- Pin-on-Disk Wear Tester
- Computerised Variable Compression Ratio Diesel Engine Test Rig
- Smokemeter/ Emission Testing facility
- Engine Test Set-ups for Research
- Wind Tunnel Facility
- Materials Research Facility

To facilitate the overall personality development of its students, the Department of Mechanical Engineering has set up a students' association TORQUE, under the aegis of which, activities are carried out to improve the soft skills and learn skills outside the realm of curriculum.

The Department also houses an Industry Interaction Cell, which conducts activities to provide the students exposure to Industrial work atmosphere, as well as, provides a platform for constant interaction with Industry Personnel through Invited Lectures and Industrial Visits.





# Electrical & Electronics Engineering

Accredited by NBA

**Vision of the Department: Excel in Electrical Engineering Education and Research**

**The department is committed:**

- To develop necessary skills in students, through rigorous global education and an appreciation for life long learning for successful and satisfying careers.
- To provide students with the solid foundation in mathematical, scientific and electrical engineering to analyze data and technical concepts for application to product design and also to pursue higher education.
- To train students with good scientific and engineering breadth, including proficiency in software language and use of latest software tools so as to comprehend, analyze, design and create novel products and solutions for the real life problems.
- To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multi disciplinary approach and an ability to relate engineering issues to broader social context.

**The Department has the following well-equipped state-of-the-art laboratories to meet and exceed VTU and AICTE requirements. They are:**

- Analog Electronics Lab
- Logic Design Lab
- Power Electronics Lab
- Circuit Simulation and Measurements Lab
- Transformers and Induction Machines Lab
- Control System Lab
- DC Machines & Synchronous Machines Lab
- Relay and High Voltage Lab
- Power System Simulation Lab
- Micro Controller Lab
- Reverse Engineering / Project Lab
- Computer Aided Electrical Drawing Lab

The student project/staff research laboratory is equipped with latest state of the art instruments which enable students to undertake projects and research in emerging technologies and post graduate studies.

**Licensed Software:**

- MATLAB
- SPGC Compiler
- SCRAM C for ARM 7
- Lab VIEW
- ETAP

**Free Software:**

- ORCAD- PSPICE
- TURBO C++
- Kiel





# Electronics & Communication Engineering

Accredited by NBA

**Vision of the Department:** To excel in Electronics and Communication Engineering education and research, focusing on the needs of industry and society, with professional ethics

The ECE Department set up from the inception of the college in 2002 has created a large number of new facilities for students, including a professional PCB fabrication facility. Lab view, Multisim and Mentor Graphics software used in industrial R&D Laboratories. The Department offers undergraduate & post graduate students facilities to become successful Engineers.

## The laboratories are:

- Student Project/Staff Research lab
- Logic Design Lab
- Analog Electronics Lab
- Micro controller Lab
- HDL lab
- AC+LIC Lab
- DSP Lab
- Microprocessor Lab
- Advanced Communication Lab
- Power Electronics Lab
- VLSI Lab
- Student Project / Staff Reserch

## Software:

- Tanner Tools
- MATLAB Software
- SPJ Compiler
- SCRAM C for ARM
- LABView
- Model SIM xilinx
- MEMO Pro
- Code Composer Studio



The Student project/staff research lab is equipped with the latest state of the art instruments which enable students and staff to undertake projects & research in emerging technologies and post graduate studies.





# Computer Science and Engineering

Accredited by NBA

**Vision of the Department:** To be recognized as a centre of excellence in computer and allied areas with quality learning and research environment

The undergraduate program is offered with a unique combination of courses and projects that help its students to cope up with the recent advancement in the Computer and IT industry. The primary objective of this program is to prepare students for successful careers in Computer and Information Technology industry that meet the needs of Indian and multinational organizations. The program involves a wide variety of courses which facilitate the students to formulate, solve and analyze computer engineering problems, prepare them for graduate studies and develop the ability to synthesize data and technical concepts for application design & implementation of real time software products.

**The Department has eight well-equipped state-of-the-art laboratories to meet the computing needs of students. They are:**

- Data structures and Algorithms Lab
- Electronic circuits and Microprocessors Lab
- Databases and Computer Graphics Lab
- System Software and Operating Systems/ Unix and Compiler Design Lab
- Network Programming Lab
- Web Programming Lab
- Advanced Computing Lab 1
- Advanced Computing Lab 2

Each laboratory has a spacious carpet area of 105.6 sqmt to accommodate 35 students working on locally networked computers with latest configurations. The laboratories and class rooms are equipped with LCD and other necessary teaching aids.





## Civil Engineering

**Vision of the Department:** Training students to become world class Civil Engineers

The Department was established in the year 2012 to offer Bachelor of Engineering (BE) degree program in Civil Engineering with annual intake of 60. The undergraduate curriculum is designed to introduce the students to a wide range of problems encountered by Civil Engineers in the field. Survey camps and practical training are a part of the curriculum aimed at familiarizing the students with actual problems.

**Students are trained in the following laboratories:**

- Material Testing Lab
- Surveying Lab
- Applied Engineering Geology Lab
- Hydraulics Lab
- Computer Aided Design Lab
- Geotechnical Engineering Lab
- Environmental Engineering Lab
- Concrete and Highway Lab

Students learn to plan, design and analyze structures. They also learn to estimate the cost of construction.

The department has experienced faculty members who are actively involved in teaching and research, to guide the students.





## Supporting Departments

### Physics

Mission of the Department of Physics is to feed the budding engineers with finer aspects of science which make them to understand, exploit and innovate, thus contributing to the technological advancement of tomorrow. The department has a well established engineering physics lab and a research center.

### Mathematics

The Department of Mathematics provides a strong foundation in Mathematical basics which are building blocks of all subjects of engineering fields. We also teach essential subjects for MCA & M.Tech which are helpful for students pursuing Masters Degree.

The department has senior and experienced faculty together with young, dynamic faculty members. The department is constantly getting good results in VTU exams (more than 90%) with many students securing First Class with distinction. The department also contributes substantially towards growth of Individual students by motivating and helping them to take competitive exams.

### Chemistry

The Chemistry Department pledges itself in the broadest and most liberal manner to encourage, the advancement of all branches of engineering through its practically skilled education and service missions.

- The Faculty members of the department are dedicated to superior teaching and excellence in research activity.

The Faculty has evolved a dynamic learning Environment that accents student-centered learning, flexibility interdisciplinary thinking and research.

- The well equipped, spacious lab provides a safe and comfortable working environment for 35 students at a time In the laboratory there is seating arrangement for all the students during instructions and demonstrations. There is a good stock of chemicals, which is replenished from time to time.
- The department has a research centre to promote research activities for faculty and students.

### Department of Humanities

The English Language Computer Laboratory is equipped with licensed interactive software for mastering the skills of the language in a learner friendly atmosphere. The Humanities Department teaches Kannada, Ethics, Environmental and Constitutional studies, helping students to learn to live as brothers in society.

## Significant Features

### Faculty

The high results are a testimony to the effort of highly qualified and dedicated faculty, who, besides being role models, provide a caring atmosphere for learning what gives SJEC an unique flavor is the care taken by the management to make every faculty student centric. There are 18 Ph.D qualified teachers, 21 are pursuing Ph.D. and 134 Post graduate teachers.

### Training and Placement

SJEC endeavours to maximize each student's professional and social skills and prepare them for responsible positions at the place of work. During the stipulated period of study, several soft skills are also developed in the students leading to their ability to learn, work and pursue specific objectives in a manner which is both self-motivated and responsive to appropriate tasks. The soft skills programme includes; Communication Skills, English and Business Communication, Time Management, Team Building and Leadership, Social and Business Etiquette, Presentation Skills

The College Placement Department offers training to students to face interviews successfully. A number of reputed companies like Tata Consultancy Services, HCL Technologies, Mindtree, Robert Bosch, Anglo Eastern Ship Management, Celstream, Global e-soft, Hewlett Packard, ITC Infotech, IBM, Samudra Institute of Maritime Studies, Karmic, Microsoft, Nandi Toyota, Robosoft, Span Infotech, SLK Software, Societe Generale, Tech Mahindra, Jindal Steel Works, L & T Integrated, Toyota Kirloskar, IBM, Oracle, UPCL, Persistent, Cognizant, KPMG, Diya Systems and a few other local companies have recruited our students for employment. For the past 3-4 years, the college enjoys the reputation of a good provider of service oriented technical personnel.

SJEC is a member of the Consortium of Engineering Colleges in Mangaluru and participates in pool interviews conducted for several colleges. However, the college also responds to specific direct requests from industry.





## The Central Library

(Member of DELNET and NITK)

The Central Library, perhaps one of the best in the region is spread over 1689 sq. mtrs. in two floors, and can accommodate 445 students at a time. It provides access to a range of databases on the campus network, e-resources and OPAC - related access to its vast collection. Its collection of about 40 thousand is used by more than 2500 members. It has a separate digital library section, group study area and private study area. It provides high-quality ambience for study. There are also department level libraries in all the departments. The Institute strives to provide the latest and best collection of books, journals, online resources, dissertations to students for course work and research.

### Highlights

- IP based access to AICTE E-Resources
- Access to Online Library Catalogue
- Access to E-Question papers
- Digital Library with IT infrastructure
- Resource sharing through DELNET ,NITK- Surathkal.
- Barcode Technology.
- CCTV surveillance system

### Co-curricular and Extracurricular activities

For the all round personality development of students, the college provides forums like; NSS, Red Cross, AICUF, Human Rights Club & Departmental Associations like EELS, IEEE, Prodigy, Genesis, Cipher, ISTE, Torque, Intaglio, Technocrats, Industry Interaction Cell, Innovation Club, Entrepreneurship Development Cell, Gavel Club, Nirman and Sigmaths.

### Sports

The Physical Education Department of our college is committed to maintain the physical fitness of students throughout their studies at SJEC.

The Physical Education Department is well established with all sports and games amenities:

- 400mts Athletic track.
- Football and cricket fields.
- Volley ball courts , Throw ball courts and Basketball court
- Four shuttle badminton courts are maintained for both men and women.
- A well equipped multi gymnasium facility separately for boys & girls in their respective hostels.
- Indoor facilities like table tennis, carom & chess etc.

The college sports and games teams has participated in Cricket, Basketball, Football, Throw ball, Volley ball, Hand ball, Hockey, Table tennis, Swimming, Chess and Athletics in the VTU zonal and inter zonal levels and won many prizes.

In the odd Semester the department conducts Inter class Foot ball, Basket ball for men, Volleyball, Shuttle Badminton, Chess, Table tennis for men and women and Throw ball for women. Sports day is conducted in the even semester with all the athletic events.

### Dispensary and Counseling Centre

The college campus has a ten bed dispensary with basic facilities to meet the immediate health care needs. The dispensary is linked with Fr Muller Hospital.

### Hostel Facilities

The Campus provides hostel facilities for students with an atmosphere much like home away from home. It provides them with all the necessary facilities which help them to acclimatize well with the new ambience. Every hostel has its own mess which caters to their needs with healthy and tasty food.

### Transport Facility

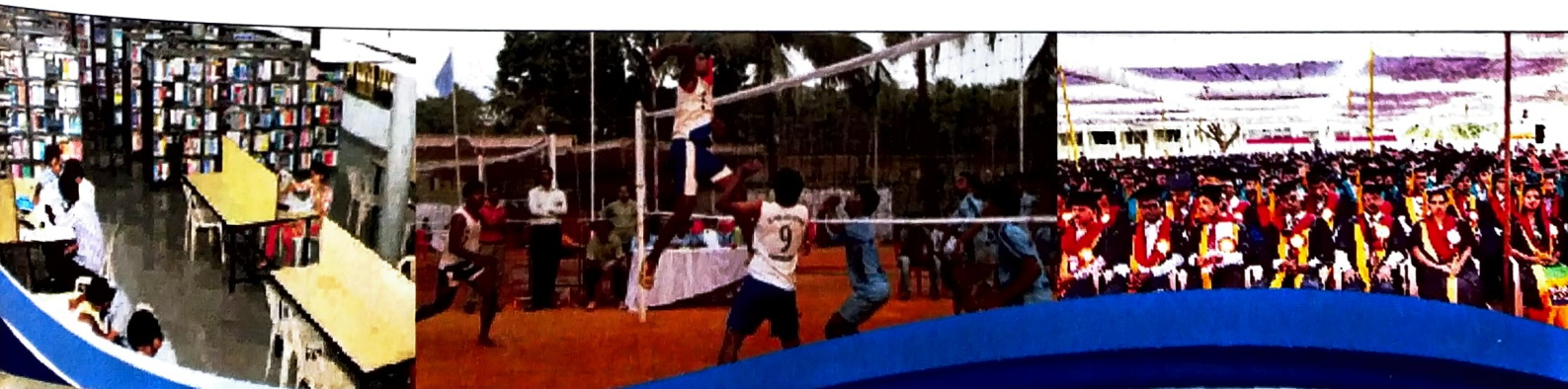
The College provides bus facilities for the students with a fleet of well maintained buses which ply to several areas in and around Mangalore

### Central Computer Centre

The Central Computer Centre (CCC) is the nerve centre of the campus wide network. CCC consists of two laboratories for Internet Browsing and one laboratory for Basic Computing. CCC provides system administration and technical support which include Software installation, Configuration of servers and desktops/laptops, Network monitoring (both wired & wireless), Internet sharing etc. CCC also conducts in-house training in the above trade for trainee technical staff. CCC possesses a Cisco 1841 router and Layer 3 Net gear switches, which connects the campus with the outer world via 100 Mbps Internet leased line provided by BSNL. Fiber Optic links stretch from CCC to hostels, amenity block, academic blocks and other places throughout the campus. The Wi-Fi facility distributed throughout the campus using 70 high configured wi-fi devices.

### Veg and Non-Veg Cafeterias

The canteen at St Joseph Engineering College is known for its student friendly environment. It provides a wide variety of delicacies to cater to the tastes of each individual. There are separate sections for vegetarians and non-vegetarians. It can accommodate nearly 250 students at a time.







# ST JOSEPH ENGINEERING COLLEGE

Vamanjoor, Mangaluru - 575028, India

Affiliated to Visvesvaraya Technological University and recognized by All India Council for Technical Education, New Delhi

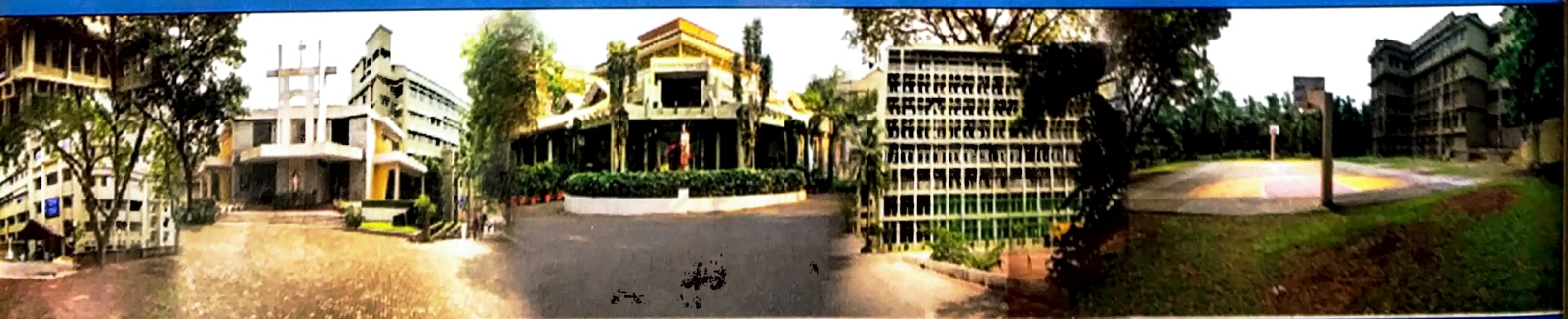
(B.E-CSE,ECE,EEE & ME Accredited by NBA, New Delhi)

Website: [www.sjec.ac.in](http://www.sjec.ac.in) E-mail: [sjec@sjec.ac.in](mailto:sjec@sjec.ac.in) Fax: 91-824-2263751 Epbx: 91-824-2263753/54/55/56

Director: 91-824-2263758 (O), 91-824-2263752 (R) Principal: 91-824-2263732 (O), 91-824- 6452176 (R)

For Admission: [admissions@sjec.ac.in](mailto:admissions@sjec.ac.in), 91-824-2868106

COMED-K Code:E 140,CET Code:E 129, E 514 (2nd Shift M.E.)



## SERVICE AND EXCELLENCE





# ST JOSEPH ENGINEERING COLLEGE

Vamanjoor, Mangaluru - 575 028, Karnataka, India

(A Christian Minority Institution affiliated to Visvesvaraya Technological University, Belagavi and recognized by the AICTE, New Delhi  
B.E - CSE, ECE, EEE & ME Accredited by NBA, New Delhi)



*Service & Excellence*

**International Brochure**





## Director's Message

Warm Greetings from St Joseph Engineering College, Mangaluru, India.

St Joseph Engineering College- SJEC- established in the year 2002, in its span of fifteen years has earned the reputation as one of the best performing colleges of Karnataka. We stand as trusted partners by many of the companies that have recruited our students like TCS, L&T Infotech and others. We are collaboratively focused to become a premier institute, offering value based learning that fosters innovation, leadership and holistic human development meeting stakeholder's aspirations.

Our students continue to display and demonstrate traits of leadership. The teaching learning pedagogy at SJEC continues to contribute to the competence of their knowledge with skills and attitude which ultimately is sought after in achieving success both as individuals and professionals. We are proud to inform you that SJEC has earned the NBA accreditations and continues to provide the quality of education with discipline and ethical values.

The institute provides the ambience where creativity and new ideas flourish, producing leaders of tomorrow by imparting learning, blended with excellence. The well qualified faculty, the outcome-based academic programmes, institute-industry collaborations, the opportunities to develop innovative ideas with vibrant college associations, research and internship opportunities, reflect our commitment to stay abreast with the expanding frontiers of knowledge needed for the organisations worldwide.

I am very much pleased to place this International Brochure in your hands. At this crucial stage in our development, we are looking for collaborations with premier institutions within and outside India. Our vision is to work together on initiatives that could be of mutual benefit, so that all stakeholders grow. We have a good pool of aspiring and confident engineers graduating every year, looking for avenues to pursue their postgraduate and doctoral studies. Our faculty are young and dynamic, always on the lookout for interactions with other experts in their field, through which they could take their research and professional growth forward. We know that they can certainly become great partners, tremendous contributors, strong collaborators and dynamic team players in win-win relationships with organizations such as yours..

We warmly reach out to you and look forward to your great support, co-operation and encouragement, so that we can setup mutually beneficial collaborations.

With best wishes,  
**Fr Wilfred Prakash D'Souza**  
Director - SJEC

### WHAT WE SEEK...

SJEC is actively looking forward to collaborate with Foreign Universities to:

- Promote Higher Education (Masters or Integrated Ph.D Programme) at a Foreign University
- Organisation of joint academic and scientific activities such as workshops, conferences, seminars, symposia or lectures.
- Develop joint venture projects between SJEC and foreign University within any field related to science and technology of mutual interest.
- Exchange of academic publications and reports of common interest.
- Promote internships and study visits
- Exchange Information pertaining to developments in teaching, student development and research.
- Exchange staff and or students.

### WHAT WE CAN OFFER...

SJEC is willing to commit the following to our Partnering Institutions:

- Extensive promotion of programs offered by the Partnering Institution in SJEC Campus through dedicated activities to reach the large student community of SJEC Campus and the region in general.
- Explore avenues to engage in research and technological interventions to resolve regional issues in social space.
- Support Partnering Institutions in capacity building activities for Researchers and Faculty.
- Support Partnering Institutions in terms of hospitality requirements for their Faculty, Students, and Alumni.
- Engage with Partnering Institutions in Cultural Exchanges.

*More than 500 SJEC Alumni have already completed or are pursuing their higher studies in reputed universities of USA, U.K, Australia, New Zealand, Germany, Sweden, South Korea, Singapore and Italy.*



**Motto of the College**  
**Service and Excellence**

**Vision of the College**  
**To be a global premier**  
**Institution of Professional**  
**Education and Research**

## MISSION

- Provide opportunities to deserving students of all communities, the Christian students in particular for quality professional education.
- Design and deliver curricula to meet the national and global changing needs through student-centric learning methodologies.
- Attract, nurture and retain the best faculty and technical manpower.
- Consolidate the state-of-art infrastructure and equipment for teaching and research activities.
- Promote all round personality development of the students through interaction with alumni, academia and industry.
- Strengthen the Educational Social Responsibilities (ESR) of the institution.

## WHY SJEC?

- \* *NBA Accredited Programmes: One among the very few colleges in the region, which has a current Accreditation from NBA, New Delhi, for four BE Programmes.*
- \* *Discipline: College has a reputation for discipline which reflects in the graduates who passout.*
- \* *Rigorous Evaluation: College maintains rigorous standards of evaluation so that graduates will have actually earned their marks.*
- \* *Faculty: Dedicated team of faculty with 19 Doctorates, 40 pursuing Ph.D. and 115 Postgraduates.*
- \* *Placements: Leading in number of placements made in the reputed companies among colleges in this region.*
- \* *Soft Skill Training: College has tied up with corporate trainer I-Point Consulting to train students on Soft Skills.*
- \* *Interaction with the Industry: College has tied up with Infosys for Campus Connect, EMC<sup>2</sup> for training on Storage Technologies and with IBM for training on Rational Rose.*
- \* *Tech Fests: Students organize tech fests, which have acquired their own brand-value.*
- \* *Students Projects: Students execute industry relevant projects, which have received accolades for innovation.*
- \* *Results: College has been consistently topping the region in terms of university exam results of students & a tradition of securing VTU Ranks.*
- \* *College of Choice: Most of the seats in the college get filled within the first few rounds of counseling.*

## THE COLLEGE

St Joseph Engineering College, Vamanjoor, Mangaluru a premier institution; a hub for Creativity and Innovative Ideas in Engineering, was established in the year 2002 with an aim to educate youth in Engineering & Technology. SJEC is Affiliated to Visvesvaraya Technological University, Belagavi, in Karnataka State and recognized by All India Council for Technical Education (AICTE), New Delhi.

SJEC is a Christian minority College, but is open to students of all communities without distinction of religion or caste. It is professionally managed and forms a part of over 250 educational institutions of the Diocese of Mangalore, Located in an idyllic place at Vamanjoor, just 10 km away from Mangaluru city.

## CAMPUS HIGHLIGHTS

- Beautiful campus spread over 40 acres of land.
- Peaceful and most conducive environment for academic excellence.
- The institute provides technical & spiritual environment that is conducive to the personal & professional development of the student.
- Spacious well equipped laboratories.
- The College has an All India image as well as an exposure to International students.
- Highly experienced, Trained and dedicated faculty team.
- Well-equipped Library and online resources.
- Computer Centre, internet, Wi-Fi connectivity.
- Interlinking of departments through OFC and intranet.
- Spacious Play Grounds for outdoor games, Indoor Games and Gymnasium.
- Canteen and Cafeteria facilities to serve the delicious food to students and staff.
- Training and Placement support through Training & Placement Cell.
- Nationalized Bank branch with ATM.
- Hostels for 480 boys, 352 girls.
- 24 hours full time campus security.
- A Chapel to meet the spiritual needs.
- Staff Quarters for Resident faculty members on campus.
- Guest House to accommodate guests across the country and abroad.
- Dispensary to provide the basic medical need.
- College buses provide transport to and from Mangaluru, Moodabidri, B C Road and Surathkal.
- Separate Utility Block comprising of Canteen and Photocopy Facility.
- General Stores & Bank Extension counters to assist the students.



# PROGRAMMES OFFERED

## B.E DEGREE PROGRAMMES

### Mechanical Engineering

Accredited by NBA

**Vision of the Department: To be a value based department committed to excellence in teaching and research, nurturing technically competent and socially responsible engineering professionals.**

The Department has a dedicated, qualified and experienced team of Faculty, Technical and Supporting Staff. The faculty-student ratio in the Department is less than 1:15. Among the faculty members, 8 have Doctoral Degrees, 32 have Master's Degree and 8 faculty members are currently pursuing their Doctoral Degree. The Students undergo their practical training sessions with the help of eleven qualified and experienced Technical Staff members.

To facilitate the overall personality development of its students, the Department of Mechanical Engineering has set up a students' association TORQUE, under the aegis of which, activities are carried out to improve the soft skills and learning skills outside the realm of the curriculum. The Department also houses an Industry Interaction Cell, which conducts activities to provide the students exposure to Industrial work atmosphere as well as, provides a platform to have constant interaction with Industry Personnel through Invited Lectures and Industrial Visits.



### Electrical & Electronics Engineering

Accredited by NBA

**Vision of the Department: Excel in Electrical Engineering Education and Research**

**The department is committed:**

- To develop necessary skills in students, through rigorous global education and an appreciation for lifelong learning for successful and satisfying careers.
- To provide students with a solid foundation in mathematical, scientific and electrical engineering to analyze data and technical concepts for applications to product design and also to pursue higher education.
- To train students with good scientific and engineering breadth, including proficiency in software language and use of latest software tools so as to comprehend, analyze, design and create novel products and solutions for the real life problems.
- To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context.

**Extra-curricular activities include:**

- Hands on training on latest software like LABVIEW, ETAP & MATLAB
- Hands on training on Domestic Wiring & Microcontrollers
- Mini & Major projects have been appreciated by funding agency
- Regular industry interaction through internship & industrial visits

**Placements:**

- 80% of eligible students are placed on campus in core & software firms.

**Alumni- achievements:**

- E&E graduates hold top positions in Public Sector Units like KPTCL, MESCOM, KPCL, Bangalore Metro & Kerala Electricity Board.
- E&E graduates are pursuing higher studies in top universities abroad.





## Electronics & Communication Engineering

Accredited by NBA

**Vision of the Department: To excel in Electronics and Communication Engineering education and research, focusing on the needs of industry and society, with professional ethics.**

The Department of Electronics & Communication Engineering, set up during the inception of the college in 2002, has created a large number of new facilities for students, including a professional PCB fabrication facility, LabVIEW, Multisim, MATLAB and Cadence Software used in industrial R & D Laboratories. The Department offers undergraduate and post graduate programs and has an approved Research Center.

The Project Lab & Research Center are equipped with the latest state of the art instruments which enable students and staff to undertake projects & research in emerging technologies, post graduate and Doctoral studies.



## Computer Science & Engineering

Accredited by NBA

**Vision of the Department: To be recognized as a centre of excellence in computer and allied areas with quality learning and research environment.**

The CSE undergraduate program is offered with a unique combination of courses and projects that help students to cope up with the recent advancements in the Computer and IT industry. The primary objective of this program is to prepare students for successful careers in computer and information technology industry that meet the needs of Indian and multinational organizations. The program involves wide variety of courses which enable the students to formulate, solve and analyze computer engineering problems, prepare them for graduate studies and develop the ability to synthesize data and technical concepts for application design & implementation of real time software products.

Each laboratory has a spacious carpet area of 105 sqmt to accommodate 35 students working on locally networked computers with latest configurations. The laboratories and class rooms are equipped with LCD and other necessary teaching aids.

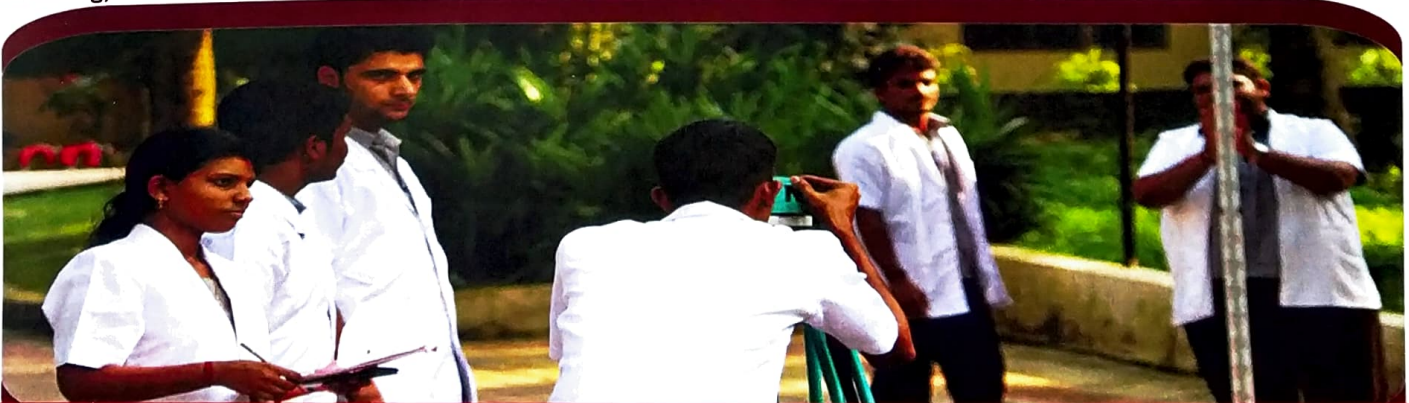


## Civil Engineering

**Vision of the Department: To impart technical education and nurture research in Civil Engineering to meet the needs of the society.**

A Department was established in the year 2012 to offer Bachelor of Engineering (BE) degree program in Civil Engineering with annual intake of 60. The undergraduate curriculum is designed to introduce the students to a wide range of problems encountered by Civil Engineers in the field. Survey camps and practical training are a part of the curriculum aimed at familiarizing the students with actual problems. Apart from the curriculum industrial visits, internship, are conducted and encouraged among students.

Spacious and well equipped state-of-the-art laboratories and computing facilities are the mainstay of the Department. Students learn to plan, design and analyze structures. They also learn to estimate the cost of construction from the planning stage to the final stage. Frequent visits by professionals from the construction industry and guest lectures by visiting faculty provide practical experience and keep students abreast with the latest advancements. The department has experienced faculty members who are actively involved in teaching, research and consultancy.





## Master of Business Administration (MBA)

**Vision of the Department: To impart quality management education to bring out competent, socially responsible and conscientious professionals.**

The Department of Business Administration follows a learner-centered philosophy and Strives to produce talent that can contribute to the growth of our nation. The learners here think beyond the limits and achieve excellence with an enriching learning experience. The academic curriculum supplements classroom learning with corporate exposure through compulsory organization-based project work spanning a period of twelve weeks. In addition a continuous industry-institute interaction, in the form of special guest-lectures, workshops, practical assignments and conferences, strengthen practical learning. The graduates are trained to face the distinct business challenges that they would come across in today's challenging global environment.



## Master of Computer Applications (MCA)

**Vision of the Department: To be recognized as a department with research environment empowering computer professionals with a strong sense of service and human values at the core.**

Computer Applications Curriculum is composed of core classes organized around the study of design and analysis techniques used to write software in various application domains along with details about the internal workings of computers and networks. Elective classes in areas such as Rich Internet Applications, mobile computing, Advanced computer networks, graphics, Unix System programming, Artificial Intelligence and others allow students to explore areas of individual interest.

The MCA programme includes a 6 month internship cum project study in different companies to enable students to gain practical experience and make a transition into the industry. Our students have done a number of the outstanding projects well appreciated by their managers and companies.

The Placement Cell conducts regular training programmes to prepare students for placements. On-campus and off-campus placement interviews are arranged during the final semester.



## Training and Placements

The placement process at SJEC aims to match the requirements of the corporate world with the aspirations of the students thereby facilitating a synergy between the two. At SJEC, it is our belief that experiences of corporate leaders provide invaluable learning to the students of engineering and management. IGNITIA – a series of motivational talks has been designed to serve as a forum for exchange of intellectually stimulating ideas between business heads and future managers through the seminar format. Such sessions see students getting a practical perspective on the theoretical concepts learnt in class with the industry stalwarts gaining fresher and newer ideas. Continuing with this tradition, SJEC saw the most successful managers, leaders, and thinkers descend on campus during the previous academic year. SJEC also focus on sharpening the skills required to be successfully placed in the corporate world such as training on aptitude skills, soft skills, interview preparation, personality development, group discussions, technical skills etc.

SJEC Mangaluru has reinforced its position as one of the premier Engineering and Management institutes in the region with placements for the batch of 2016-17 reaching 84% of eligible students. A total of 418 students participated in the placement process, with 354 students from 5 engineering streams and 2 postgraduate courses of MCA & MBA getting placed.





## The Central Library

(Member of VTU Consortium, DELNET, NITK)

The Central Library of SJEC is user focused, innovative and excellent. The library is a pioneer in adopting new technology, and is ahead of other technical libraries in the region. It provides a high-quality ambience for both reflective and collaborative work and study. Its collection of about 40 thousand volumes, 110 technical print and above 6000 online journals are used by more than 2400 members and others.

### Highlights

- Access to:
  - VTU Consortium and DELNET e-resources
  - Online library catalogue
  - E-question papers
  - Digital Library
- Barcode Technology
- CCTV surveillance system



## Sports

The Physical Education Department is committed to maintain the physical fitness of students throughout their studies at SJEC.

The Department is well established with all sports and games amenities:

- 400 m Athletic track.
- Football and cricket fields.
- Volleyball courts, Throw-ball courts and Basketball court
- Four shuttle badminton courts for both men and women.
- A well-equipped multi gymnasium facility for boys & girls in their respective hostels.
- Indoor facilities like table-tennis, carrom, chess etc.

The college sports and games teams participated in Cricket, Basketball, Football, Throw-ball, Volleyball, Hand-ball, Hockey, Table-Tennis, Swimming, Chess and Athletics in the VTU zonal and inter-zonal levels and won many prizes.



## SAEINDIA SJEC COLLEGIATE CLUB

The SAEINDIA SJEC COLLEGIATE CLUB was launched in April 2016 and has developed an All Terrain Vehicle-THE TURTLE, in accordance with the specifications of SAEINDIA for participating in the internationally renowned SAE BAJA.



## AUTOMATION AND ROBOTICS CLUB

The Automation and Robotics Club at SJEC was launched in October 2016. The Club organizes workshops and training programs on automation and robotics with the aim of enabling its members to engage in innovative projects and work towards Industry 4.0.



## CLUBS AND ASSOCIATIONS AT SJEC

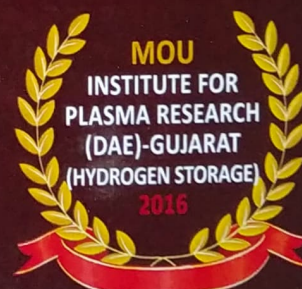
- IEEE SJEC CHAPTER
- SAEINDIA SJEC COLLEGIATE CLUB
- ISIE SJEC CHAPTER
- AUTOMATION AND ROBOTICS CLUB
- INDIAN SOCIETY OF TECHNICAL EDUCATION SJEC CHAPTER
- COMPUTER SOCIETY OF INDIA SJEC CHAPTER
- ALL INDIA CATHOLIC UNIVERSITY FEDERATION
- ENTREPRENEURSHIP DEVELOPMENT CELL
- SIGMATHS—MATHEMATICS ASSOCIATION
- YOUTH RED CROSS SJEC UNIT

## SJEC LabVIEW ACADEMY

The LabVIEW Academy at SJEC, Mangaluru offers SJEC students a unique opportunity to get trained in LabVIEW and CLAD Certification that enables the students to learn and explore what the industry seeks from fresh graduates. The SJEC LabVIEW Academy believes that theoretical knowledge must go hand in hand with strong practical experience. SJEC LabVIEW Academy does this by making students industry ready besides a sound academic record.

SJEC LabVIEW course culminates in the NI Certified LabVIEW Associate Developer (CLAD) certification.





# ST JOSEPH ENGINEERING COLLEGE

Vamanjoor, Mangaluru - 575 028, Karnataka, India

Affiliated to Visvesvaraya Technological University, Belagavi and recognized by All India Council for Technical Education, New Delhi  
(B.E-CSE, ECE, EEE & ME Accredited by NBA, New Delhi)

Website: [www.sjec.ac.in](http://www.sjec.ac.in) E-Mail: [sjec@sjec.ac.in](mailto:sjec@sjec.ac.in) Fax: +91-824-2263732 Phone: +91-824-2263753/54/55/56  
Director : +91-824-2263758 (O), +91-824-2263752 (R) Principal : +91-824-2263732 (O), +91-824-6452176 (R)



*Professionalism . Competency . Innovation*



# ST JOSEPH ENGINEERING COLLEGE

VAMANJOOR, MANGALURU—575 028, KARNATAKA. INDIA.

(Affiliated to Visvesvaraya Technological University and Recognized by AICTE—New Delhi  
B.E.—CSE, ECE, EEE, ME: Accredited by NBA—New Delhi.)

## BROCHURE

### 2017–2018



*Service and Excellence*



**MOTTO****SERVICE AND EXCELLENCE****VISION**

**TO BE A GLOBAL PREMIER  
INSTITUTION OF PROFESSIONAL  
EDUCATION AND RESEARCH**

**MISSION**

- ◇ Provide opportunities to deserving students of all communities, the Christian students in particular, for quality professional education.
- ◇ Design and deliver curricula to meet the national and global changing needs through student-centric learning methodologies.
- ◇ Attract, nurture and retain the best faculty and technical manpower.
- ◇ Consolidate the state of art infrastructure and equipment for teaching and research activities.
- ◇ Promote all round personality development of the students through interaction with alumni, academia and industry.

**THE COLLEGE**

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**CAMPUS HIGHLIGHTS**

- \* Beautiful campus spread over 40 acres of land.
- \* Peaceful and most conducive environment for academic excellence.
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The following B.E. Programmes have been reaccredited by National Board for Accreditation (NBA) - New Delhi

SL. NO	NAME OF THE PROGRAMME - UG	PERIOD OF VALIDITY W.E.F. JULY 2016
1	MECHANICAL ENGINEERING	3 YEARS
2	COMPUTER SCIENCE & ENGINEERING	3 YEARS
3	ELECTRICAL & ELECTRONICS ENGINEERING	3 YEARS
4	ELECTRONICS & COMMUNICATIONS ENGINEERING	3 YEARS

### WHY SJEC ?

**NBA Accredited Programmes:** One among the very few colleges in the region which has a current Accreditation from NBA, New Delhi, for four B.E. programmes.

**Discipline:** College has a reputation for discipline which reflects in the graduates who pass out.

**Rigorous Evaluation:** College maintains rigorous standards of evaluation, so that, graduates will have actually earned their marks.

**Faculty:** Dedicated team of faculty with 20 Doctorates, 21 pursuing Ph.D and 134 Postgraduates.

**Placements:** Leading in number of placements made in reputed companies among colleges in this region.

**Soft Skills Training:** College has tied up with corporate trainer I-Point Consulting to train students on Soft Skills.

**Interaction with Industry:** College has tied up with Infosys for Campus Connect, EMC<sup>2</sup> for training on Storage Technologies, IBM for Rational Rose, V&G Industrial Testing for NDT, Institute of Plasma Research for Hydrogen Storage, and SELCO Foundation India for renewable energy.

**Associations:** Students have the opportunity to enroll in Technical Clubs such as SAEINDIA SJEC Collegiate Club, Automation and Robotics Club, IEEE, ISTE, Imperial Society of Innovative Engineers ISIE, to enhance their skills.

**Students Projects:** Students execute industry relevant projects which have received accolades for innovation.

**Results:** College has been consistently topping the region in terms of university exam results of students & a tradition of securing VTU RANKS.

**College of Choice:** Most of the seats in the college get filled within the first few rounds of counseling.

### PROGRAMMES OFFERED

#### UNDERGRADUATE—B.E.

Computer Science and Engineering

Electronics and Communication Engineering

Electrical and Electronics Engineering

Civil Engineering

Mechanical Engineering

#### POSTGRADUATE

Master in Business Administration—MBA (Finance, HR, Marketing)

Master in Computer Applications—MCA

M.Tech.—Power Electronics; Computer Science and Engineering; Digital Electronics and Communication

M.Sc. (Engg) by Research—Mechanical Engineering; Computer Science and Engineering, Electrical and Electronics Engineering; Electronics and Communication Engineering

#### PH.D.

Physics

Chemistry

Mathematics

Computer Science and Engineering

Electronics and Communication Engineering

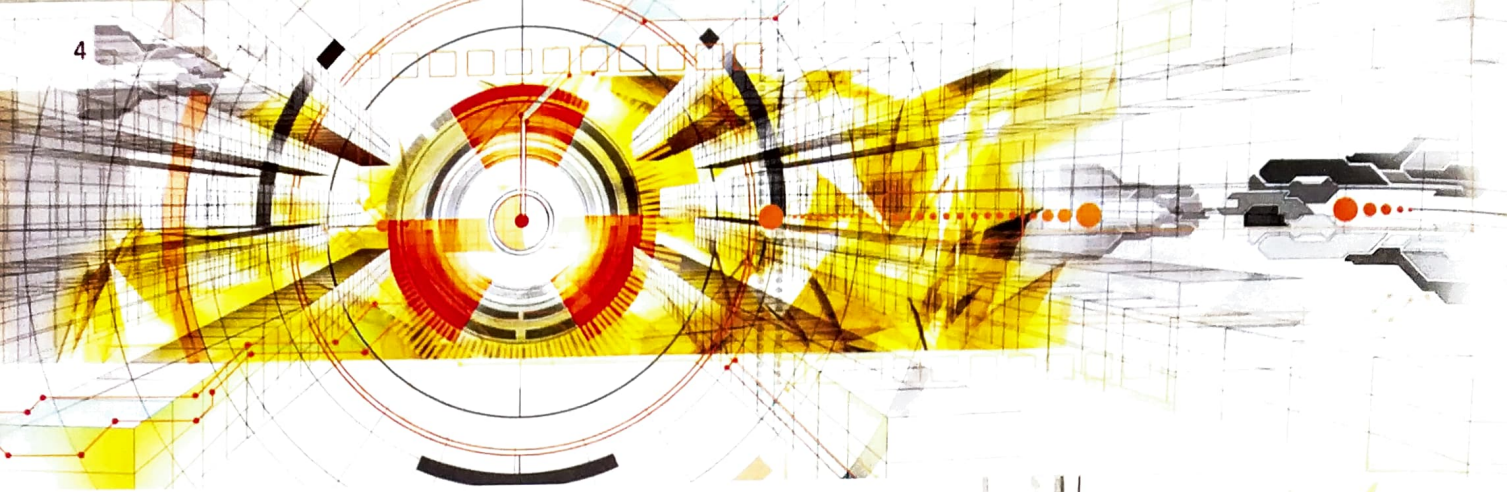
Electrical and Electronics Engineering

Mechanical Engineering

Business Administration







## *Director's Message*



Warm Greetings from St Joseph Engineering College.

St Joseph Engineering College – SJEC Established in the year 2002, in its span of fifteen years has earned the reputation as one of the best performing colleges of Karnataka. We stand as trusted partners by many of the companies that have recruited our students like TCS, L&T Infotech and others. We are collaboratively focused to become a premier institute, offering value based learning that fosters innovation, leadership and holistic human development meeting stakeholder's aspirations.

Our students continue to display and demonstrate traits of leadership. The teaching learning pedagogy at SJEC continues to contribute to the competence of their knowledge with skills and attitude which ultimately is sought after in achieving success both as individuals and professionals. We are proud to inform you that SJEC has earned the NBA accreditations and continues to provide the quality of education with discipline and ethical values.

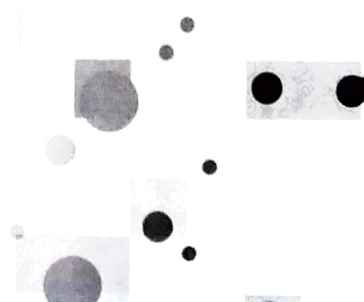
The institute provides the ambience where creativity and new ideas flourish, producing leaders of tomorrow by imparting learning, blended with excellence. The well qualified faculty, the outcome based academic programmes, institute- industry collaborations, the opportunities to develop innovative ideas with vibrant college associations, research and internship opportunities, reflect our commitment to stay abreast with the expanding frontiers of knowledge needed for the organisations worldwide.

I am very much pleased to place this Placement brochure in your hands. We are very confident that our engineers, managers and professionals will meet your expectations and contribute what you are looking for to your organization who will add value in reaching your organisation goals. We know that they will certainly become great partners, tremendous contributors, strong collaborators, dynamic team players and committed leaders with professional courtesy and high ethical values.

We warmly welcome you to our campus and look forward to your great support, co-operation and encouragement.

With best wishes,

**Fr. Wilfred Prakash Dsouza**  
Director - SJEC







## *Principal's Message*

**W**arm Greetings from St Joseph Engineering College.

Getting placed in a dream company of choice on campus is an important accomplishment for a student pursuing a professional program. An information brochure is an essential means through which the recruiting company would get a glimpse about the strengths of the students as well as that of the college. I am immensely pleased to learn that we are bringing out a brochure that will surely impress upon the visiting company that encourages enhanced recruitment on the campus. Certainly, there is a lot to tell about the campus, the courses, the laboratories, highly qualified faculty, amenities and above all the students and their performance. Through the five undergraduate and three master level programs in Engineering and master level programs in Computer Applications and Business Administration, the vibrant campus is providing education to 2487 students who are academically bright and technically sound. The spirit of service and excellence, the motto of our college always enlivens every "Josephite" and therefore the product of St Joseph Engineering College comes with high academic quality, discipline, having good interpersonal skills, very responsible and professionally ready to take charge. The employers of our Alumni give us their feedback and we are proud to say that they are highly appreciated at their work places.

We are confident that the succession of students who leave the portals of the College will keep up the rich tradition of excelling wherever they are. I am sure that this brochure will certainly create a lasting impression for the judicious employer. I thank everyone who has worked hard in brining this brochure so impressively.

With best wishes,

**Dr Joseph Gonsalvis**  
Principal - SJEC





The Central Library of the college has kept pace with emerging challenges, perhaps one of the best technical libraries in the region. The state of the art library stretches over 1789 square meters; the library has in its collection more than 41318 volumes with 9560 titles on Engineering, Science, Management and Humanities and subscribes to 90 technical journals, 5727 online journals and 12 online databases. It has the capacity to accommodate 460 students at a time. It has membership with VTU Consortium, DELNET, National Digital Library and it is enabled with Wi-Fi technology and CCTV Surveillance System.

### HIGHLIGHTS

- ◇ IP based access to AICTE E-Resources
- ◇ Access to Online Library Catalogue
- ◇ Access to E-Question papers
- ◇ Digital Library with IT infrastructure
- ◇ Resource sharing through DELNET, NITK—Surathkal.
- ◇ Barcode Technology.
- ◇ CCTV surveillance system

### E-Resources

- ◇ IEEE ASPP
- ◇ TAYLOR AND FRANCIS ONLINE
- ◇ PROQUEST
- ◇ SPRINGER
- ◇ ASCE
- ◇ ELSEVIER—SCIENCE DIRECT
- ◇ KNIMBUS
- ◇ DELNET
- ◇ EPAC
- ◇ E-QUESTION PAPERS



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SJEC LabVIEW course culminates in the NI Certified LabVIEW Associate Developer (CLAD) certification that is recognized by many engineering companies and validates your practical exposure to application development.

### OTHER ASSOCIATIONS AND CLUBS

- ◇ AICUF
- ◇ SAEINDIA SJEC COLLEGIATE CLUB
- ◇ ENTREPRENEURSHIP DEVELOPMENT CELL
- ◇ SIGMATHS
- ◇ NSS SJEC UNIT
- ◇ YOUTH RED CROSS SJEC UNIT
- ◇ ISTE SJEC CHAPTER
- ◇ IEEE SJEC CHAPTER
- ◇ JAGRUTI CELL
- ◇ GAVEL CLUB
- ◇ CSI SJEC CHAPTER



## SIGNIFICANT FEATURES

### FACULTY

The high academic results of our Students are a testimony to the effort of Highly Qualified and Dedicated Faculty, who, besides being role models, provide a caring atmosphere for learning. What gives SJEC an unique flavor is the care taken by the management to make every Facility student centric.

There are 20 Ph.D qualified teachers, 20 are pursuing Ph.D. and 134 Post Graduate Faculty.

The Faculty together with their academic duties are also engaged in cutting edge research. Research funds worth 80 Lacs have been obtained from various Government Agencies on ongoing Research Projects.

### HOSTEL FACILITIES

The College has created the facility of hostels for Boys and Girls separately in order to provide a good environment for them to continue their studies in a healthy and caring atmosphere. In the SJEC Hostels, the efforts are to promote gentlemanliness, studiousness, and fulfilment of the dreams of parents who send students to the hostels.

### TRANSPORT FACILITY

The Campus provides bus facilities for the students with the fleet of well maintained buses which ply to several areas in and around Mangalore.



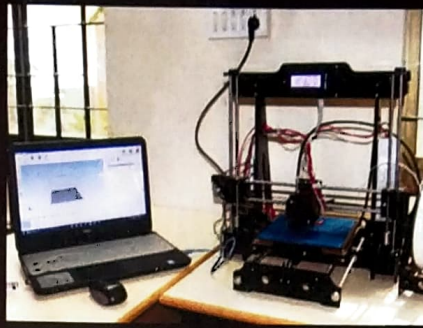
The Automation and Robotics Club at SJEC was launched in October 2016. The Club organizes workshops and training programs on automation and robotics with the aim of enabling its members to engage in innovative projects and work towards Industry 4.0.

The Club has indigenously developed:

- A) 3D Printer
- B) Drone
- C) UAV
- D) Multipurpose CNC
- E) Plotter

The members are currently engaged in developing :

- A) Functional Robot (Attender)
- B) Prosthetic Humanoid Arm
- C) Waste Segregation Machine



## SAEINDIA SJEC COLLEGIATE CLUB

The SAEINDIA SJEC COLLEGIATE CLUB was launched in April 2016 and has developed an All Terrain Vehicle—THE TURTLE, in accordance with the specifications of SAEINDIA for participating in the internationally renowned SAE BAJA.

The TURTLE 1.0 has showcased stellar performance over the last one year at the National Level and has bagged the following honours.

- ◇ Secured First Place in South India and 18<sup>th</sup> National Rank at SAEINDIA Virtual Baja Event held at Indore-MP. (July 2016)
- ◇ Secured Best Performer Award (Spirit of ESI) at Enduro Student India 2017 – National Level ATV Racing Competition held at Coimbatore – TN. (Jan 2017)
- ◇ Secured 3<sup>rd</sup> Rank in the State, 26<sup>th</sup> Rank in Acceleration and Endurance Test, and 47<sup>th</sup> Overall Rank among 150 Teams at the SAE INDIA BAJA held at Indore in Feb 2017.

The Club is currently working on TURTLE 2.0 and are gearing up for the 2018 season.

The Collegiate Club has also developed an Electric ATV for competing in the SAEINDIA eBAJA event. Titled SJEC MOTORSPORT, the team secured First Rank in the State and 12 Rank Nationally in the SAEINDIA Virtual BAJA Event for Electric ATV (eBAJA) in July 2017.



## SPORTS

Physical Education Department at SJEC is well established with all sports and games amenities. A green sports ground encompasses a 200 m athletic track, football, hockey, and cricket fields. A separate facility for handball, throw ball, and volleyball is also set up. A beautiful basketball court is situated on the quadrangle which is one of the centers of attraction in our College. Four shuttle badminton courts are maintained for both men and women.

A well-equipped multi-gymnasium facility is available for both men and women in their respective hostels. SJEC also has indoor facilities such as, table tennis, carom, chess etc.

With strong focus on inculcating good sportsmanship spirit and discipline, SJEC conducts regular training and practice sessions on various sports and games. Students have been able to showcase consistent performance in various University / National Level meets.

### FACILITIES

- ◇ 200 m Athletic track.
- ◇ Well-furnished football and cricket fields.
- ◇ Hockey and Hand ball Courts.
- ◇ Well maintained Volley ball and throw ball courts.
- ◇ Kabaddi court
- ◇ A beautiful basketball court is situated on the quadrangle which is one of the centers of attraction in our College.
- ◇ Four outdoor shuttle badminton courts are maintained for both men and women.
- ◇ A well-equipped multi gymnasium facility is available for both men and women in their respective hostels.





**COMPANIES**

- ◇ TATA CONSULTANCY SERVICES
- ◇ MICROSOFT
- ◇ AMAZON
- ◇ SAP LABS
- ◇ VMWARE
- ◇ BOSCH
- ◇ TECHMAHINDRA
- ◇ L&T
- ◇ ITC INFOTECH
- ◇ TOYOTA KIRLOSKAR
- ◇ IBM
- ◇ PERSISTANT
- ◇ HEWLETT PACKARD
- ◇ GLOBAL E-SOFTSYS
- ◇ MINDTREE
- ◇ BIRLASOFT
- ◇ MANIPAL GROUP
- ◇ EDS TECHNOLOGIES

SJEC endeavours to maximize each student's professional and social skills and prepare them for responsible positions at the place of work. During the stipulated period of study, several soft skills are also developed in the students leading to their ability to Learn, work and pursue specific objectives in a manner which is both self-motivated and responsive to appropriate tasks. The soft skills programme includes; communication Skills, English and Business Communication, Time Management, Team Building and Leadership, Social and Business Etiquette, Presentation Skills. The College has tied-up with aptitude trainers JV Global to engage in training the students in Campus and preparing them for Campus Interviews.

The College Placement and Training Department works over-time to ensure that every Josephite student succeeds in getting placed in Campus. The Department offers training to students to face interviews successfully. Over the past 3-4 years; the College enjoys the reputation of a good provider of service oriented technical personnel. College has entered into MOUs with TCS, Infosys (Campus Connect), and L&T Infotech to be recognized as Academic Partners.

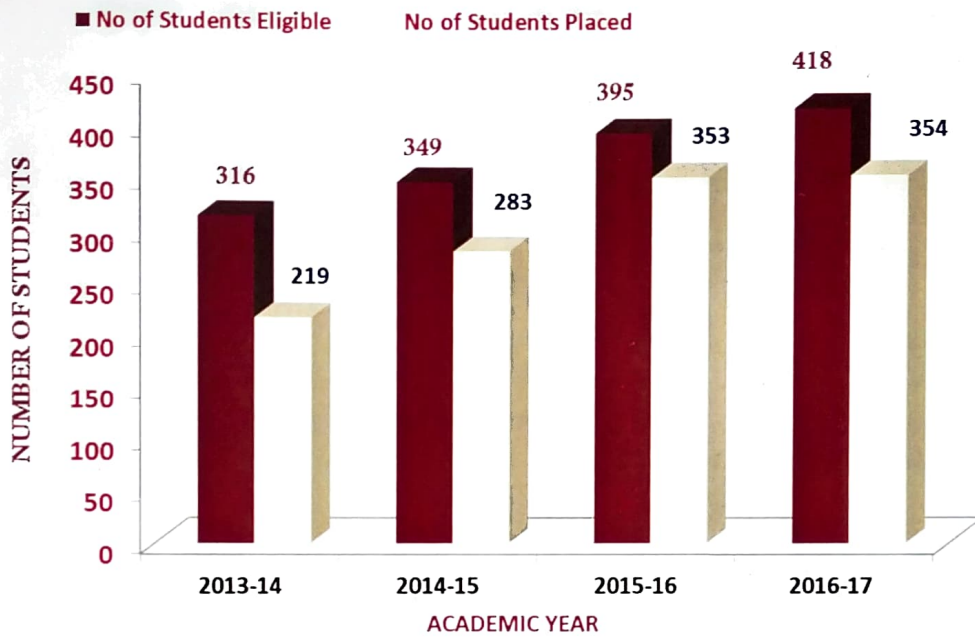


**PLACED STUDENTS 2016-2017**



# PLACEMENT STATISTICS

Year	No of Students Eligible	No of Students Placed
2013-14	316	219
2014-15	349	283
2015-16	395	353
2016-17	418	354





Besides a Hearty Welcome, the Training and Placement Department is well equipped with excellent infrastructure to support each and every stage of the Placement Process in the Campus, which involves Pre-Placement Talk Halls, Group Discussion Venues, Sufficient number of Interview Rooms, dedicated 280 Mbps internet connectivity for online examinations, coordinated Faculty/Student volunteers for prompt action on the Day of visit and accommodation for stay at College Guest House.

## CONTACT DETAILS



## MS SANGEETA FERRAO

Placement Officer

Phone: 0824—2263763

Mobile: +91 9008752809

Email: placement\_sjec@sjec.ac.in



## PLACEMENT AND TRAINING ACTIVITIES 2016—2017

Placement season at SJEC begins with rigorous aptitude training and motivational talks to get the students geared up for the challenges. Training partners JV Global—Bangalore engaged the students in a 5-Day aptitude training from 25<sup>th</sup> to 29<sup>th</sup> July 2016. Ignitia 2016—Series of Motivational Talks was inaugurated on 6<sup>th</sup> August 2016 with an inaugural address titled “*What Got You Here; Won't Get You There*” by **Mr Pradeep Gopi**, Vice President & Head HR, Robosoft Technologies, Udupi, Karnataka.

The Ignitia 2016 series continued with a team of Trainers led by Mr Kishor from **Tata Consultancy Services (TCS)** visiting the Campus on 10<sup>th</sup> August 2016 and addressed the Student community on the recruitment process and selection criteria for TCS. More than 350 students attended the talk. **Magnus Global Tech Education** conducted a career orientation programme in the SJEC Campus on 26<sup>th</sup> September 2016 under the banner of Ignitia 2016.

**Maventic Innovative Solutions Pvt. Ltd** conducted their Campus Drive at SJEC on 03<sup>rd</sup> September 2016. After an extensive selection process including program execution, two students were selected. **ITC Infotech** was the Day-1 Company to visit the Campus on 16<sup>th</sup> and 19<sup>th</sup> September 2017. Around 200 students participated in the online test and following the HR Interviews, 22 students were selected.

**Robosoft Technologies** visited the Campus on 20<sup>th</sup> September 2016 and recruited 18 students. **Tech Mahindra** was the next company to visit the Campus for placements on 30<sup>th</sup> September 2016. Following an aptitude test, paragraph writing, and HR Interviews, 64 students were recruited. **L&T Infotech** conducted their Campus Drive in SJEC on 6<sup>th</sup> and 7<sup>th</sup> October 2016. After initial round of group discussion, Technical and Personal Interviews followed leading to the recruitment of 43 Students. **SAP Labs** conducted their online test at SJEC on 19<sup>th</sup> October 2016. Four students were shortlisted for interviews at Bangalore, where One student was selected. **Global E-Softsys** recruited 4 students from SJEC through their pool Campus Drive at SJEC on 21<sup>st</sup> October 2016. **Indian Navy** conducted its Placement Drive at SJEC in 26<sup>th</sup> October 2016 and shortlisted student headed for the SSBs at different venues. One students was selected by Indian Navy. **Decathlon Sports India** visited SJEC on 9<sup>th</sup> November 2016 and recruited 4 students. This was followed by the Campus Drive by **IBM** on 16<sup>th</sup> November 2016 where, 10 students were recruited. **Hinduja Global Solutions** visited SJEC on 18<sup>th</sup> November 2016 and recruited 43 students.





**EDS Technologies** conducted their Campus Drive at SJEC on 6th and 7th February 2017. Following online test, group discussion, technical, and HR Interviews, 6 students were selected. **Mphasis** visited the Campus on 27th February and selected 15 students. Representative from the American Consulate—Consular Information Unit visited SJEC on 1st March 2017 and outlined the numerous options available, the structure of the graduate program in the U.S., and student visa process followed by an interaction session with students. 5 Students from SJEC were recruited by **Sunquest Information Systems Pvt. Ltd.** on 3rd March 2017.

SJEC has been recognized as a **Preferred Academic Partner (A Campus of Choice)** for the year 2017-18 by **L&T Infotech**. **Pre-launch of Campus Brand Ambassador program** was conducted at SJEC on 09.03.17. **SJEC is one of the only 13 colleges that have been identified for a program like this.**

**VMWare** a leading company in the field of Virtualization and Cloud Computing recruited 3 students from SJEC following their Campus Drive on 6th and 7th March 2017 with a package of 7.6 LPA.

**Amazon Web Services** visited SJEC to conduct to pool campus drive for students of Mangalore region. Post selection process, 3 students from SJEC were recruited by Amazon with a package of 11 LPA.

### DIVERSIFIED PLACEMENTS—KEY FEATURES

TOTAL PLACEMENTS 2016–2017

354

HIGHEST NUMBER OF PLACEMENTS BY AMAZON WEB SERVICES IN THE REGION

03

HIGHEST PAY PACKAGE IN THE REGION

11 LPA BY AMAZON WEB SERVICES

HIGHEST NUMBER OF DAY-1 OFFERS

75 BY L&T INFOTECH

ONLY COLLEGE IN THE REGION TO HAVE CAMPUS PLACEMENTS FOR THREE CONSECUTIVE YEARS BY THE DEFENCE SECTOR

INDIAN ARMY AND INDIAN NAVY

ONLY FEMALE RECRUITMENT IN THE STATE BY INDIAN NAVY

MS MEGHA KURIEN, CIVIL ENGINEERING;  
NAVAL ARCHITECTURE

ONLY STUDENT IN THE REGION TO BE PLACED IN MAHINDRA & MAHINDRA R&D THROUGH PARTICIPATION IN SAEINDIA BAJA 2017

MR M. S. DEVAIAH, MECHANICAL ENGINEERING

PREFERRED ACADEMIC PARTNER (A CAMPUS OF

L&T INFOTECH

### VISITORS COMMENTS

**“SJEC is the Most Trusted Academic Partner of TCS”**

- Mr E. S. Chakravarthy, Center Head – Tata Consultancy Services, Bengaluru. 12 November 2016.

**“Excellent Institution in Karnataka”**

- Dr T. K. Alex, Member - Space Commission and Former Director -

**“It is a great Institution in this part of India. I am not just appreciative, I am deeply impressed by the culture that makes for wholesome education”**

- Dr K.J. Rao, Emeritus Professor, Ramanna Fellow (Senior), Solid state and Structural Chemistry Unit at the Indian Institute of Science – Bangalore. 11 February 2017.

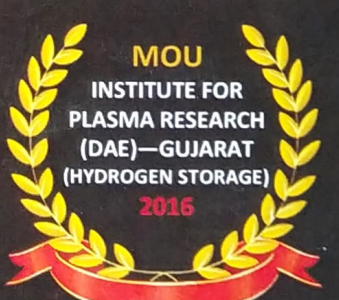
**“Overwhelmed by the warm welcome. Good Infrastructure, very polite and humble Staff”**

- Cdr Anand. Indian Naval Academy. 26 Oct 2016

**“I am overwhelmed with this College Environment”**

- Commodore N. N. Rao. 6 May 2015





# ST JOSEPH ENGINEERING COLLEGE

VAMANJOOR, MANGALURU—575 028, KARNATAKA. INDIA.

(A Christian Minority Institution affiliated to Visvesvaraya Technological University and Recognized by the AICTE—New Delhi.

B.E.—CSE, ECE, EEE, ME Accredited by NBA—New Delhi.)

Tel: 0824-2263753/54/55/56, 2263951/52 Email: [sjec@sjec.ac.in](mailto:sjec@sjec.ac.in) Fax: 0824-2263751  
Website: [www.sjec.ac.in](http://www.sjec.ac.in)





# ST JOSEPH ENGINEERING COLLEGE

(Affiliated to VTU, Belagavi and recognised by the AICTE, New Delhi. B.E. - CSE, ECE, EEE, ME Accredited by NBA, New Delhi)

VAMANJOOR, MANGALURU - 575 028, KARNATAKA, INDIA



Your  
Gateway  
to Success



## PROSPECTUS



## Message from the **DIRECTOR**



*Welcome to St Joseph Engineering College, Mangaluru. I take great delight to introduce you to our College. I hope the information provided will help you to explore the many opportunities our College offers to shape your future as a prospective student and a person who dreams of a successful career. I know you have a very important choice to make at this point of time.*

*St Joseph Engineering College is affiliated to Visvesvaraya Technological University, Belagavi, Karnataka State and is recognized by the All India Council for Technical Education (AICTE), New Delhi, India; established in the year 2002. Four of our B. E. programmes are re-accredited by the National Board of Accreditation (NBA) for the years 2016-2019. The College offers top class education in Engineering, Business Administration and Computer Applications at UG, PG and Research levels. It has well qualified staff, state of the art laboratories and all other required facilities. Presently about 2400 students are studying in the College.*

*St Joseph Engineering College provides value-centered Engineering and Management education grounded in faith, ideals of truth and respect, shaping our students as ethical professionals. Our aim is to ensure that students have the skills necessary to succeed in today's competitive job market with such balance. Together with the Management of the College, the faculty members constantly strive to provide students a holistic campus experience which moulds them into lifelong learners.*

*I am proud to say that recently the Indo Universal Collaboration for Engineering Education (IUCEE) has recognized St Joseph Engineering College, as a Transformational Leader in Engineering Education for the year 2017. Secondly, our students from Mechanical Engineering have won various events such as SAE-AEROINDIA, SAE BAJA, AIRBORNE etc. in state and national level and also many of our students participated in VTU University Level Tournaments, won medals and brought laurels to the College. In the last three years more than 1000 students have been placed in reputed companies. With this I am happy to say that our College is marching towards greater heights of accomplishment.*

*For more details, do visit our college website: [www.sjec.ac.in](http://www.sjec.ac.in)*

**Rev. Fr Wilfred P. D'Souza**  
**Director, SJEC**



## Message from the **PRINCIPAL**



*I am immensely happy to present this brochure in the hands of the young aspirants who look forward for engineering education that is imparted with the best quality. I am sure that St Joseph Engineering College (SJEC) will certainly meet the expectations of transforming their dreams of becoming an engineering professional. Kindly note that our College is rated as one among the best engineering institutions in the state of Karnataka that offers programs in Engineering and Management. The programs are accredited by the National Board of Accreditation (NBA), which is a testimony for the best quality of education provided to the students. Also Accreditation gives the assurance of international recognition to the programs offered by the College. The Outcome Based Education (OBE) provided by the College helps in acquiring essential skills to relate theoretical aspects through experiential learning added with internships offered within the campus as well in reputed industries. Due to such measures taken by the college, the IUCEE (Indo- Universal Collaboration for Engineering Education) has granted its prestigious membership, which only a few colleges across the country have been bestowed with. Yes, it has been a wonderful experience for the students of SJEC who have made their name at the National Level and at various other forums besides performing excellently well in their academics, such as; SAE-M-BAJA, SAE-E-BAJA, Aero-modelling, Robotics, Agri-tech, etc., where competence in Engineering & Technology is measured. Extracurricular, Cultural and sports activities fill colour and vibrancy to life on the campus. Placements on the campus have been the best with more than 85% of the eligible students being placed in reputed companies. Entrepreneurial initiatives are also motivated through incubation centre.*

*Academic excellence is maintained by highly qualified faculty members (a good number of them are with PhD degrees), well stacked library coupled with ample e-resources, excellent infrastructure, supporting staff, and hostels and well maintained green campus. Above all the dynamic Management with a great vision is ever ready to transform SJEC into a best in class institution.*

*Well, we look forward for the aspiring engineer to pay a visit to the campus to know what it means to be pursuing a program in Engineering at SJEC.*

**Dr Joseph Gonsalvis**  
**Principal, SJEC**





## **MOTTO OF THE COLLEGE**

**SERVICE & EXCELLENCE**

## **VISION**

To be a global premier Institution of professional education and research.

## **MISSION**

- Provide opportunities to deserving students of all communities, the Christian students in particular for quality professional education.
- Design and deliver curricula to meet the national and global changing needs through student-centric learning methodologies.
- Attract, nurture and retain the best faculty and technical manpower.
- Consolidate the state-of-art infrastructure and equipment for teaching and research activities.
- Promote all round personality development of the students through interaction with alumni, academia and industry.
- Strengthen the Educational Social Responsibilities (ESR) of the institution.





## Why SJEC ?

**NBA Accredited Programmes:** One among the very few colleges in the region which has a current Accreditation from NBA, New Delhi, for four B.E. programmes.

**Discipline:** College has a reputation for discipline which reflects in the graduates who pass out.

**Rigorous Evaluation:** College maintains rigorous standards of evaluation, so that, graduates will have actually earned their marks.

**Faculty:** Dedicated team of faculty with 21 Doctorates, 39 pursuing Ph.D and 106 Postgraduates.

**Placements:** Leading in number of placements made in reputed companies among colleges in this region.

**Soft Skills Training:** College has tied up with corporate trainer I-Point Consulting to train students on Soft Skills.

**Interaction with Industry:** College has tied up with Infosys for Campus Connect, EMC2 for training on Storage Technologies, IBM for Rational Rose, V&G Industrial Testing for NDT, Institute of Plasma Research for Hydrogen Storage, and SELCO Foundation India for Renewable Energy.

**Associations:** Students have the opportunity to enroll in Technical Clubs such as SAEINDIA SJEC Collegiate Club, Automation and Robotics Club, IEEE, ISTE, Imperial Society of Innovative Engineers ISIE, to enhance their skills.

**Students Projects:** Students execute industry relevant projects which have received accolades for innovation.

**Results:** College has been consistently topping the region in terms of University exam results of students & a tradition of securing VTU RANKS.

**College of Choice:** Most of the seats in the college get filled within the first few rounds of counseling.

## THE COLLEGE

St Joseph Engineering College, Mangaluru a premier institution; a hub for Creativity and Innovative Ideas in Engineering, was established in the year 2002 with an aim to educate youth in Engineering & Technology. SJEC is Affiliated to Visvesvaraya Technological University, Belgaum, in Karnataka State and recognized by All India Council for Technical Education (AICTE), New Delhi.

SJEC is a Christian minority College, but is open to students of all communities without distinction of religion or caste. It is professionally managed and forms a part of over 250 educational institutions of the Diocese of Mangalore. Located in an idyllic place at Vamanjoor, just 10 km away from Mangalore city.

## CAMPUS HIGHLIGHTS

- Beautiful campus spread over 40 acres of land.
- Peaceful and most conducive environment for academic excellence.
- The institute provides technical & spiritual environment that is conducive to the personal & professional development of the student.
- Spacious well equipped laboratories.
- The College has an All India image as well as an exposure to International students.
- Highly experienced, trained and dedicated faculty team.
- Well-equipped Library and Online resources.
- Computer Centre, Internet, wi-fi connectivity.
- Interlinking of Departments through OFC and Internet.
- Spacious Play Grounds for outdoor games, Indoor Games and Gymnasium.
- Canteen and Cafeteria facilities to serve delicious food to students and staff.
- Full Fledged Placement Department that is active and successful.
- Nationalized Bank branch with ATM.
- Hostels for 480 boys and 352 girls.
- 24 hours campus security.
- A Chapel to meet spiritual needs.
- Staff quarters for resident faculty members on campus.
- Guest House to accommodate guests.
- Dispensary to provide basic medical needs.
- College buses provide transport to and from Mangaluru, Moodabidri and Surathkal.
- Separate Utility Block comprising of canteen, STD booth, General Stores and Bank extension counters to assist the students.



# PROGRAMMES OFFERED

## B.E. DEGREE PROGRAMMES

- **Mechanical Engineering**
- **Electrical & Electronics Engineering**
- **Electronics & Communication Engineering**
- **Computer Science & Engineering**
- **Civil Engineering**

### Eligibility

**Admission to First Semester B.E.:** The candidates shall have passed second year Pre-University or XII standard or equivalent examinations with minimum 45% (40% for SC/ST and OBC Karnataka candidates) marks in Physics and Mathematics along with one of the following subjects: Chemistry, Bio Technology, Computer Science, Biology, and Electronics. Candidates must have studied English as one of the subject in PUC. CET or COMEDK score card is made mandatory for the students taking admission in B.E. course. A few seats are reserved under NRI quota.

**Admission to Third Semester B.E. (Lateral Entry):** A candidate who has passed diploma examination or equivalent examination and obtained an aggregate minimum of 45% marks taken together in all the subjects of the final year (fifth and sixth sem) diploma Examination is eligible for the admission to II year B.E. Courses, and 40% of marks in the case of SC / ST and OBC Karnataka candidates.

## POST GRADUATE DEGREE PROGRAMMES

- **MBA Degree (Finance / HR / Marketing and Dual Specialization)**

**Eligibility:** Graduate in any discipline with 50% marks in aggregate (45% for SC / ST Cat-1) are eligible.

**Government Quota:** Candidates should appear for PG CET and the seats are filled through centralized counseling.

**Management Quota:** Seats are based on the percentage scored in the graduation course and the percentile obtained in the KMAT / CMAT entrance test.

- **MCA Degree**

**Eligibility :** Bachelor's degree, min 50% (45% for SC/ ST, Category 1) marks. Must have studied Maths/Business Maths / Statistics / Computer Programming / Computer Science/ Computer Applications at graduate or plus -2 level with minimum of 50% marks. A pass in KMAT or PG CET is required.

- **M. Tech in Power Electronics (E&E Dept)**

**Eligibility:** Bachelor's Degree in Electrical & Electronics / Electronics & Communication / Instrumentation Technology / Telecommunication. AMIE in appropriate branch with not less than 50% (45% for SC / ST / Cat-1) marks.

- **M.Tech in Computer Science & Engineering (CS&E Dept)**

**Eligibility:** Bachelor's Degree in Computer Science and Engineering / Electronics & Communication Engineering / Electrical & Electronics Engineering / Information Science Engineering / Instrumentation / Telecommunication Engineering or equivalent degree; AMIE in appropriate branch with not less than 50% (45% for SC / ST / Cat-1) Marks.

- **M.Tech in Digital Electronics & Communication Systems (E&C Dept)**

**Eligibility:** Bachelor's Degree in Electronics & Communication/ Electronics & Telecommunication / Telecommunication or equivalent degree; AMIE in appropriate branch with not less than 50% (45% for SC / ST / Cat-1) marks.

(Note: Candidate should have valid GATE score or PG CET Rank)

## RESEARCH PROGRAMMES

- **M.Sc. (Engg) in Mechanical**
- **M.Sc. (Engg) in Computer Science & Engineering**
- **M.Sc. (Engg) in Electrical & Electronics**
- **M.Sc. (Engg) in Electronics & Communication**
- **M.Sc. (Engg) in Civil Engineering**

**Eligibility:** Candidates who have passed B.E./ B.Tech (relevant discipline) Examination of VTU or any other recognized University, recognized by VTU as equivalent thereto and have passed the prescribed qualifying examination with not less than 60% of the marks in the aggregate, in the examinations of the semesters considered for the declaration of class / grade. (For detailed criteria, refer VTU regulations governing the degree of Master of Science in Engineering by Research)

## PH.D. PROGRAMMES

- **Physics**
- **Chemistry**
- **Mathematics**

**Eligibility:** M.Sc. Degree with minimum 60% marks in related discipline.

- **Mechanical Engineering**
- **Computer Science & Engineering**
- **Electrical & Electronics Engineering**
- **Civil Engineering**
- **Electronics & Communication Engineering**

**Eligibility:** M. Tech in related discipline.

- **Business Administration**

**Eligibility:** MBA degree with a minimum CGPA of 6.75 out of 10 or 60% aggregate marks.



# MECHANICAL ENGINEERING

Accredited by NBA

**Vision of the Department:** To be a value based Department committed to excellence in teaching and research, nurturing technically competent and socially responsible engineering professionals.

The Department has a dedicated, qualified and experienced team of Faculty, Technical and Supporting Staff. The faculty-student ratio in the Department is less than 1:15. Among the faculty members, 8 have Doctoral Degrees, 32 have Master's Degree and 8 faculty members are currently pursuing their Doctoral Degree. The Students undergo their practical training sessions with the help of eleven qualified and experienced Technical Staff members.

To facilitate the overall personality development of its students, the Department of Mechanical Engineering has set up a students' association TORQUE, under the aegis of which, activities are carried out to improve the soft skills and learning skills outside the realm of the curriculum. The Department also houses an Industry Interaction Cell, which conducts activities to provide the students exposure to Industrial work atmosphere, as well as, provides a platform to have constant interaction with Industry Personnel through Invited Lectures and Industrial Visits.

## LABORATORIES

- Energy Conversion Engineering Lab
- Heat & Mass Transfer Lab
- Fluid Mechanics & Machines Lab
- Metallography and Material Testing Lab
- Mechanical Measurements & Metrology Lab
- Design Lab
- Computer Aided Modeling & Analysis Lab
- CIM & Automation Lab
- Foundry & Forging Lab
- Computer Aided Machine Drawing Lab
- Machine Shop & Workshop Practice
- Computer Aided Engineering Drawing Lab

The following research facilities have been installed to promote innovative academic project works for the students and facilitate state-of-the-art research by the faculty.

- Pin-on-Disk Wear Tester
- Engine Test Set-ups for Research
- Computerized Variable Compression Ratio Diesel Engine Test Rig
- Wind Tunnel Facility
- Smokemeter / Emission Testing Facility
- Materials Research Facility





# Electrical & Electronics Engineering

Accredited by NBA

**Vision of the Department:** Excel in Electrical Engineering Education and Research.

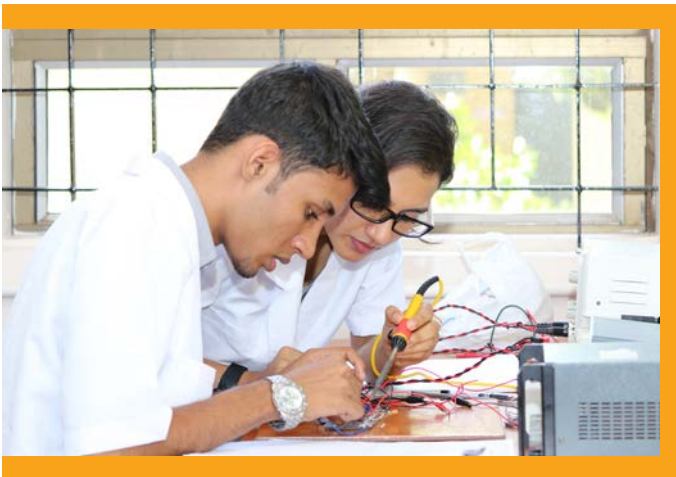


## The Department is committed:

- To develop necessary skills in students, through rigorous global education and an appreciation for lifelong learning for successful and satisfying careers.
- To provide students with a solid foundation in mathematical, scientific and electrical engineering to analyze data and technical concepts for applications to product design and also to pursue higher education.
- To train students with good scientific and engineering breadth, including proficiency in software language and use of latest software tools so as to comprehend, analyze, design and create novel products and solutions for the real life problems.
- To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context.

## The Department has the following well-equipped state-of-the-art laboratories to meet and exceed VTU and AICTE requirements:

- Analog Electronics Lab
- Logic Design Lab
- Power Electronics Lab
- Circuit Simulation and Measurements Lab
- Transformers and Induction Machines Lab
- Control System Lab
- DC Machines & Synchronous Machines Lab
- Relay and High Voltage Lab
- Power System Simulation Lab
- Micro Controller Lab
- Reverse Engineering / Project Lab



- Computer Aided Electrical Drawing Lab
- Research Lab

The student project / staff research laboratory is equipped with the state of the art instruments which enable students to undertake projects and research in emerging technologies and post graduate studies.

## EXTRA-CURRICULAR ACTIVITIES INCLUDE:

- Hands on training on latest software like LABVIEW, ETAP & MATLAB
- Hands on training on Domestic Wiring & Microcontrollers
- Mini projects & Major projects have been appreciated by funding agencies.
- Regular industry interaction through internship & industrial visits

## PLACEMENTS:

- 80% of eligible students are placed on campus in core & software firms.

## ALUMNI- ACHIEVEMENTS:

- E&E graduates hold top positions in Public Sector Units like KPTCL, MESCOM, KPCL, Bangalore Metro & Kerala Electricity Board.
- E&E graduates are pursuing higher studies in prestigious universities abroad.



# Electronics & Communication Engineering

Accredited by NBA



**Vision of the Department:** To excel in Electronics and Communication Engineering education and research, focusing on the needs of industry and society, with professional ethics.

The Department of Electronics & Communication Engineering, set up during the inception of the college in 2002, has created a large number of new facilities for students, including a professional PCB fabrication facility, Lab View, Multisim, MATLAB and Cadence Software used in industrial R & D Laboratories. The Department offers undergraduate and post graduate programs and has an approved Research Center.

## The Laboratories are:

- Logic Design Lab
- Analog Electronics Lab
- Micro Controller Lab
- HDL Lab
- AC+LIC Lab
- DSP Lab
- Microprocessor Lab
- Advanced Communication Lab
- Power Electronics Lab
- VLSI Lab
- Student Project / Staff Research Lab
- PCB Lab
- M.Tech. Computer Lab
- M.Tech. DEC Lab
- Research Centre

## Software

- MATLAB
- SPJ Compiler
- SCRAM C for ARM
- LABView & Multisim
- Xilinx ISE & Model SIM
- MEMs Pro
- Code Composer Studio
- Cadence

The Project Lab & Research Center are equipped with the latest state of the art instruments which enable students and staff to undertake projects & research in emerging technologies, post graduate and Doctoral studies.





# Computer Science & Engineering

Accredited by NBA

**Vision of the Department:** To be recognized as a centre of excellence in computer and allied areas with quality learning and research environment.

The CSE undergraduate program is offered with a unique combination of courses and projects that help students to cope up with the recent advancements in the Computer and IT industry. The primary objective of this program is to prepare students for successful careers in computer and information technology industry that meet the needs of Indian and multinational organizations. The program involves wide variety of courses which enable the students to formulate, solve and analyze computer engineering problems, prepare them for graduate studies and develop the ability to synthesize data and technical concepts for application design & implementation of real time software products.

**The Department has eight well-equipped state-of-the-art laboratories to meet the computing needs of students:**

- Data Structures and Algorithms Lab
- Electronic Circuits and Microprocessors Lab
- Databases and Computer Graphics Lab
- System Software and Operating Systems / Unix and Compiler Design Lab
- Network Programming Lab
- Web Programming Lab
- Advanced Computing Lab 1
- Advanced Computing Lab 2

Each laboratory has a spacious carpet area of 105 sqmt to accommodate 35 students working on locally networked computers with latest configurations. The laboratories and class rooms are equipped with LCD and other necessary teaching aids.





# Civil Engineering



**Vision of the Department:** To impart technical education and nurture research in Civil Engineering to meet the needs of the society.

A Department was established in the year 2012 to offer Bachelor of Engineering (BE) degree program in Civil Engineering with an annual intake of 60. The undergraduate curriculum is designed to introduce the students to a wide range of problems encountered by Civil Engineers in the field. Survey camps and practical training are a part of the curriculum aimed at familiarizing the students with actual problems. Apart from the curriculum, industrial visits, internship, are conducted and encouraged among students.

Spacious and well equipped state-of-the-art laboratories and computing facilities are the mainstay of the Department.

### Students are trained in the following laboratories:

- Material Testing Lab
- Surveying Lab
- Geology Lab
- Hydraulics LAB
- Computer Aided Design Lab
- Geotechnical Engineering Lab
- Environmental Engineering Lab
- Concrete and Highway Lab

Students learn to plan, design and analyze structures. They also learn to estimate the cost of construction from the planning stage to the final stage. Frequent visits by professionals from the construction industry and guest lectures by visiting faculty provide practical experience and keep students abreast with the latest advancements.

The department has experienced faculty members who are actively involved in teaching, research and consultancy.





# Master of Business Administration (MBA)

**Vision of the Department:** To impart quality management education to bring out competent, socially responsible and conscientious professionals.

The Department of Business Administration offers a two-year, full-time programme recognized by AICTE, New Delhi and Department of Technical Education, Government of Karnataka. The MBA programme is affiliated to Visvesvaraya Technological University, Belagavi. The Department offers dual specialization in MBA namely **Finance & Marketing, Finance & Human Resource Management and Marketing and Human Resource Management**. The Department is a recognized Research Centre of Visvesvaraya Technological University, Belgaum, and offers Ph.D. programme in Business Administration.

The Department of Business Administration follows a learner-centered philosophy and Strives to produce talent that can contribute to the growth of our nation. The learners here think beyond the limits and achieve excellence with an enriching learning experience. The academic curriculum supplements classroom learning with corporate exposure through compulsory organization-based project work spanning a period of twelve weeks. In addition, a continuous industry-institute interaction, in the form of special guest-lectures, workshops, practical assignments and conferences, strengthen practical learning. The graduates are trained to face the distinct business challenges that they would come across in today's challenging global environment.

## STRENGTHS:

- Contemporary curriculum
- Excellent Faculty
- Diverse Students profile
- Career Placements
- Separate library with good collection of books
- Gavel club affiliated to Toastmasters International



## Mission of the Department

- Imparting contemporary curriculum and its application to business situations.
- Developing proficiency through continuous industry academia interface and research.
- Sensitizing students towards the needs of the society.
- Inculcating diligence through extra-curricular activities.
- Encouraging entrepreneurial attitude through constant guidance.

## FACILITIES:

**Library:** The Department has a spacious library having an excellent collection of latest books, magazines, journals and periodicals on Management. In addition to the print versions of journals the Department has Ebscohost online research database. The library remains open for nearly 12 hours on all working days for the benefit of students and faculty. Apart from the Department library the students have access to the central library of the SJEC for traditional and digital references.



**Computer Laboratory:** The Department has a separate computer lab equipped with the latest technology and trained assistant to help the students learn through hands on experience. It also has Campus Wi-Fi network for internet access for faculty, students and staff.

**Placement and Training Cell:** The college has a credible placement record. The Placement and Training Cell is headed by a qualified and experienced placement officer. The Cell conducts regular training programmes for personality development, entrepreneurship development etc. and assists the students for project placement as well as final placement. On-campus and off campus placement interviews are arranged during the final semester.



# Master of Computer Applications (MCA)

**Vision of the Department:** To be recognized as a Department with research environment empowering computer professionals with a strong sense of service and human values at the core.

The Master of Computer Applications (MCA) programme was started in the year 2008 with an intake of 60 students. The Department offers a three year course approved by AICTE, Government of India and is affiliated to Visvesvaraya Technological University (VTU), Belagavi, Karnataka.

Computer Applications Curriculum is composed of courses organized around the study of design and analysis techniques used to write software in various application domains along with details about the internal workings of computers and networks. Elective classes in areas such as Rich Internet Applications, mobile computing, Advanced computer networks, graphics, Unix System programming, Artificial Intelligence and others allow students to explore areas of individual interest

## Mission of the Department:

To inculcate professional behavior with strong ethical values and innovative research capabilities among faculty and students

To meet global needs and challenges through training of professionals who can work with interest to support the society.

To Encourage faculty to have continuous progress in their teaching skills and self-development.

## STRENGTHS:

- Consistent record of excellent results (above 90%)
- Well equipped laboratories with 100% licensed software
- 100% placement of all eligible students who have consistent academic record of above 60%.
- Consistent champions in various fests across the district

## FACILITIES:

Four well established laboratories, to meet the computing needs of the students.

- C-programming and Object Oriented Programming Laboratory
- Unix and System Software Laboratory
- C# and .Net Laboratory
- Web and Internet Computing Laboratory.

Each Laboratory has a spacious carpet area of 66 sqm to accommodate 30 students at a time, respectively, Computers are Networked, with latest configurations and provided with LCD and other required teaching aids.



**Department Library:** An independent Library and reading room provides student with access to the latest titles, journals, Conference Papers, Question Papers and Placement supporting material. In addition, traditional and digital references are available in the central Library.

**Internships / Placement:** The MCA programme includes a 6 month internship and project study in companies to enable students to gain practical experience and enable easier transition into the industry. Students have developed number of outstanding projects, that are well appreciated by their Managers and Companies. The Placement Cell conducts regular training programmes to prepare students for placements. On-campus and off-campus placement interviews are arranged during the final semester.



# SUPPORTING DEPARTMENTS

## PHYSICS

Mission of the Department is to feed the budding engineers with finer aspects of science which make them to understand, exploit and innovate, thus contributing to the technological advancement of tomorrow. The Department has a well established engineering physics lab and a research center.

## MATHEMATICS

The Department of Mathematics provides a strong foundation in Mathematical basics, which are the building blocks of all subjects of engineering disciplines. The Department also teach essential subjects for MCA & M.Tech which are helpful for students pursuing Master's Degree.

The Department has senior and experienced faculty together with young, dynamic faculty members. The Department is constantly getting good results in VTU exams (more than 90%) with many students securing First Class with Distinction. The Department also contributes substantially towards growth of individual students by motivating and helping them to clear competitive exams.

## CHEMISTRY

The Chemistry Department pledges itself in the broadest and most liberal manner to encourage, the advancement of all branches of engineering through its practically skilled education and service missions.

The Faculty members of the Department are dedicated to superior teaching and excellence in research activity.

The Faculty has evolved a dynamic learning Environment that accents student-centered learning, flexible interdisciplinary thinking and research.

The well equipped, spacious lab provides safe and comfortable working environment for 35 students at a time. In the laboratory there is seating arrangement for all students during instructions and demonstrations. There is a good stock of chemicals, which is being replenished from time to time.

The Department has research centre to promote research activities.

## DEPARTMENT OF HUMANITIES

The English Language Computer Laboratory is equipped with licensed interactive software for mastering the skills of the language in a learner friendly atmosphere. Humanities Department teaches Kannada, Ethics, Environmental and Constitutional studies, helping students to learn to live as brothers in society.





## Co-Curricular and Extracurricular Activities

### AUTOMATION AND ROBOTICS CLUB ARC—SJEC

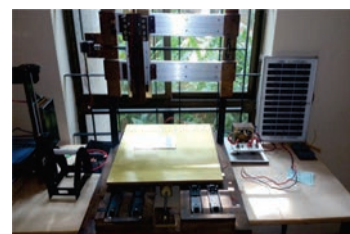
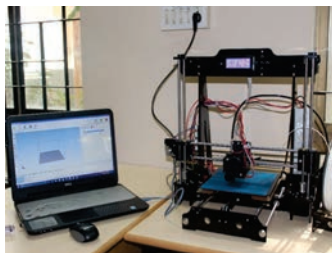
The Automation and Robotics Club at SJEC was launched in October 2016. The Club organizes workshops and training programs on automation and robotics with the aim of enabling its members to engage in innovative projects and work towards Industry 4.0.

#### The Club has indigenously developed:

- 3D Printer
- Drone
- UAV
- Multipurpose CNC
- Plotter

#### The members are currently engaged in developing

- Functional Robot (Attender)
- Prosthetic Humanoid Arm
- Waste Segregation



### SAEINDIA SJEC COLLEGIATE CLUB

For the all-round personality development of Students, the College provides many Associations and Forums to hone their skills.

The SAEINDIA SJEC COLLEGIATE CLUB was launched in April 2016 and has developed an All Terrain Vehicle— THE TURTLE, in accordance with the specifications of SAEINDIA for participating in the internationally renowned SAE BAJA.

The TURTLE 1.0 has showcased stellar performance over the last one year at the National Level and has bagged the following honours.

Secured First Place in South India and 18th National Rank at SAEINDIA Virtual Baja Event held at Indore-MP. (July 2016)

Secured Best Performer Award (Spirit of ESI) at Enduro Student India 2017 – National Level ATV Racing Competition held at Coimbatore – TN. (Jan 2017)

Secured 3rd Rank in the State, 26th Rank in Acceleration and Endurance Test, and 47th Overall Rank among 150 Teams at the SAE INDIA BAJA held at Indore in Feb 2017.

Turtle 2.0, took part in SAE India BAJA 2018 and secured 2nd place in Karnataka and 19th Place in India.

The Collegiate Club has also designed an Electric ATV for competing in the SAEINDIA eBAJA event. Titled SJEC MOTORSPORT, the team secured First Rank in the State and 12 Rank Nationally in the SAEINDIA Virtual BAJA Event for Electric ATV (eBAJA) in July 2017.





# TRAINING AND PLACEMENTS

The placement process at SJEC aims to match the requirements of the corporate world with the aspirations of the students thereby facilitating a synergy between the two. At SJEC, it is our belief that experiences of corporate leaders provide invaluable learning to the students of engineering and management. IGNITIA – a series of motivational talks has been designed to serve as a forum for exchange of intellectually stimulating ideas between business heads and future managers through the seminar format. Such sessions see students getting a practical perspective on the theoretical concepts learnt in class with the industry stalwarts gaining fresher and newer ideas. Continuing with this tradition, SJEC saw the most successful managers, leaders, and thinkers descend on campus during the previous academic year. SJEC also focus on sharpening the skills required to be successfully placed in the corporate world such as training on aptitude skills, soft skills, interview preparation, personality development, group discussions, technical skills etc.

SJEC Mangaluru has reinforced its position as one of the premier Engineering and Management institutes in the region with placements for the batch of 2016-17 reaching 84% of eligible students. A total of 418 students participated in the placement process, with 354 students from 5 engineering streams and 2 postgraduate courses of MCA & MBA getting placed. For the current academic year 2017-18, the placements are ongoing with 220 students placed so far.

The regular recruiters at SJEC reinforced their faith in the quality of talent by hiring in big numbers. This year witnessed a substantial increase in the number of companies confirming participation for the final placement process. The average Cost-to-Company across the three courses saw a increase over the previous year with the highest domestic CTC offered increasing by a remarkable figure. SJEC is also a member of the Consortium of Engineering Colleges of Mangaluru and conducts/ participates in pool interviews.

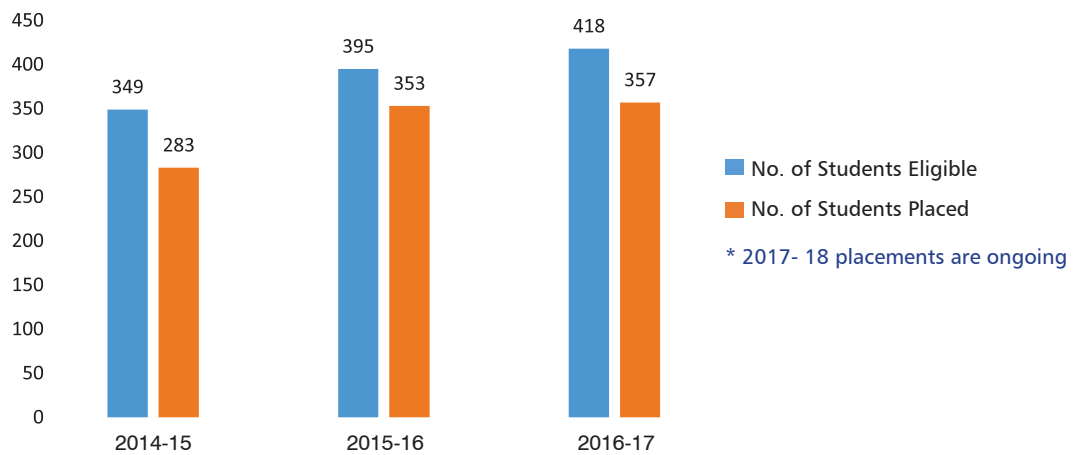
## Placements statistics

Year	No. of Students Eligible	No. of Students Placed
2014-15	349	283
2015-16	395	353
2016-17	418	357
2017-18	333	220 + ongoing





## PLACEMENT STATISTICS



## COMPANIES



## Placed Students 2016-17





# SIGNIFICANT FEATURES

## FACULTY

Consistently good results obtained in examinations are a testimony to the effort of highly qualified and dedicated faculty, who, besides being the role models, provide a caring atmosphere for learning. At SJEC the unique flavor is the care taken by the management to make every facility student-centric. There are 21 PhD qualified teachers, 39 are pursuing PhD and 106 teachers have postgraduate degrees.

## THE CENTRAL LIBRARY

(Member of VTU Consortium, DELNET, NITK)

The Central Library of SJEC is user focused, innovative and excellent. The library is a pioneer in adopting new technology, and is ahead of other technical libraries in the region. It provides a high-quality ambience for both reflective and collaborative work and study. Its collection of about 40 thousand volumes, 110 technical print and above 6000 online journals are used by more than 2400 members and others.

## HIGHLIGHTS

### ✧ Access to:

- VTU Consortium and DELNET e-resources
- Online library catalogue
- E-question papers
- Digital Library

### ✧ Barcode Technology

### ✧ CCTV surveillance system

## CO-CURRICULAR AND EXTRACURRICULAR ACTIVITIES:

For the all round personality development of students, the college provides forums like; NSS, Red Cross, AICUF, Human Rights Club & Departmental Associations like EELS, IEEE, Prodigy, Genesis, Cipher, ISTE, Torque, Intaglio, Technocrats, Industry Interaction Cell, Innovation Club, Entrepreneurship Dev. Cell, Gavel Club, Nirman and Sigmaths.



## SPORTS:

The Physical Education Department is committed to maintain the physical fitness of students throughout their studies at SJEC.

Physical Education Department is well established with all sports and games amenities:

- 400 m Athletic track.
- Football and cricket fields.
- Volleyball courts, Throw-ball courts and Basketball court
- Four shuttle badminton courts for both men and women.
- A well-equipped multi gymnasium facility for boys & girls in their respective hostels.
- Indoor facilities like table-tennis, carrom, chess etc.





The College sports and games teams participated in Cricket, Basketball, Football, Throw-ball, Volleyball, Hand-ball, Hockey, Table-Tennis, Swimming, Chess and Athletics in the VTU zonal and inter-zonal levels and won many prizes.

In the Odd Semester the department conducts inter class Foot ball, Basket Ball for men, Volleyball, Shuttle Badminton, Chess, Table tennis for men and women and Throw Ball for women. Sports day is conducted in the even semester with all the athletic events.

## **DISPENSARY AND COUNSELING CENTRE**

The Counselling services in St Joseph Engineering College are a part of the academic requirements of VTU-Belgaum.

The College houses a well-equipped Dispensary to attend to the medical needs of students, staff, and all other inmates of the Campus. A Campus Doctor is available round the Clock and resides in the Campus. The Dispensary houses a Consultation Room, Treatment Room, and Nursing Counter. Nursing staff are available round the clock to attend to all requirements of Campus inmates.

All hospitalization cases are referred to Father Muller Medical College and Hospital, a Sister Concern of the College.

## **HOSTEL FACILITIES**

The College provides hostel facilities for students with an atmosphere much like home away from home. It provides them with all the necessary facilities which help them to acclimatize well with the new ambience. Each hostel has its own mess which caters healthy and tasty food.

## **TRANSPORT FACILITY**

The College provides bus facilities for the students with a fleet of well maintained buses which ply to several areal in and around Mangaluru.

## **CENTRAL COMPUTER CENTRE**

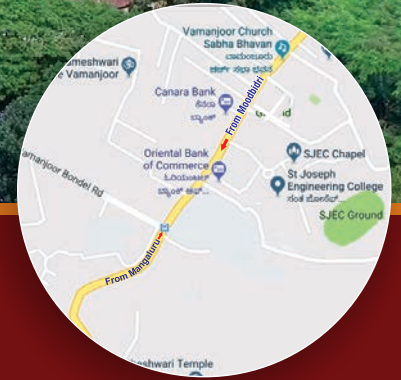
The Central Computer Centre (CCC) is the nerve centre of campus wide network. CCC consists of two laboratories for Internet browsing and one laboratory for Basic Computing. CCC provides system administration and technical support which include software installation, Configuration of servers and desktops / laptops, Network Monitoring (both wired & wireless), internet sharing etc. Fiber Optic links stretch from CCC to hostels, amenity block, academic blocks and other places throughout the campus. The Wi-Fi facility distributed throughout the campus using 70 high configured Wi-Fi devices.

## **VEG AND NON-VEG CAFETERIAS**

The canteen at SJEC is known for its student friendly environment. It provides a wide variety of delicacies to cater to the tastes of each individual. There are separate sections for vegetarians and non-vegetarians. It can accommodate nearly 250 students at a time.







# ST JOSEPH ENGINEERING COLLEGE

(Affiliated to VTU, Belagavi and recognised by the AICTE, New Delhi. B.E. - CSE, ECE, EEE, ME Accredited by NBA, New Delhi)

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