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- Institution for World Bank Assistance under TEQIP Scheme



Institutional Report of SJCE

1. Institute's basic information

Sri Jayachamarajendra College of Engineering was started in the year 1963, which was inaugurated by Dr.T.M.A.Pai, who was the then Chairman of the Academy of Education, Manipal. Initially it was under the auspices of the JSS Mahavidyapeetha, with the divine inspiration of His Holiness Jagadguru Lingaikya Dr. Sri Sri Shivarathri Rajendra Mahaswamigalavaru of Suttur Mutt.



Fig 1: Administrative block of SJCE

The institution started with courses in Civil, Mechanical and Electrical Engineering branches. The first batch of students passed out as Engineering Graduates in the year 1968 and in the same year SJCE got the credit of being the first in Karnataka to introduce Electronics and Communication Engineering course. Then followed Bachelor's degree in Instrumentation in the year 1978, Computer Science and Engineering during 1982,



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Information Science and Engineering in the year 2000 and many other undergraduate and Post Graduate courses were also started. Figure 1 shows the administrative block of the college. The college has secured remarkable results successively in the examinations held by Visvesvaraya Technological University, Belgaum. SJCE maintains a good Student – Faculty – Management relationship. Hence the college has carved a niche for itself as a premier centre for Technical Education.

With a number of well-equipped laboratories in various fields of Science and Engineering, the institute undertakes several development activities. Facilities including excellent Computer Centre, Library, Workshops, etc., are provided for research programs leading to M.Sc (Engg) and Ph.D in Electrical Sciences, Mathematics, Civil Engineering, Mechanical Engineering and Polymer Science and Technology.

The institute has been identified as one of the Centres of the Network scheme envisaged by the Government of India, thus enabling active interactions with institutions such as the Indian Institute of Science, Bangalore. The college maintains a host of computer systems throughout the campus and operates on 24 x 7 basis with adequate technical manpower. Internet access with WiFi connectivity is available with a bandwidth of 310 MBPS. The intranet network hardware components are installed in the network rack. The campus network rack is shown in figures 2.



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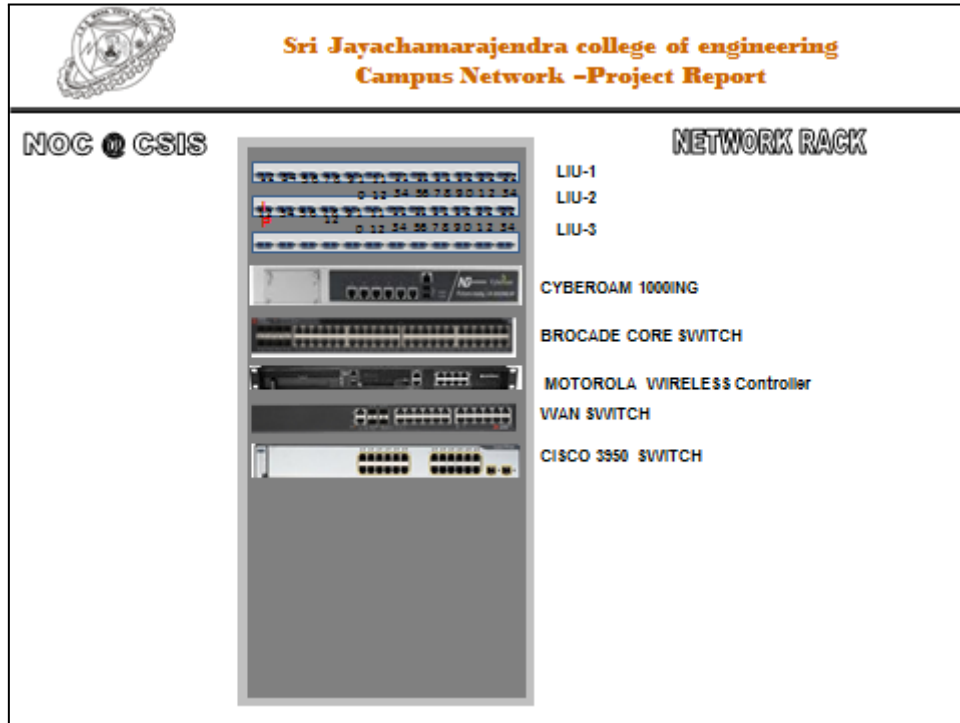


Fig 2: Network rack

The details of the SJCE campus network are as below:

- a) From Network Operating Centre (CSIS building) to server room 24 core OFC uplink is terminated.
- b) From Server room 6 core OFC uplink distributed to electronics, digital library, VLSI, administration, and library.
- c) From server room to TEQIP 24 core OFC optical fibre cable uplink is terminated.
- d) From TEQIP to PGH 12 core OFC uplink is terminated.
- e) From PGH 6 core OFC uplink is distributed to boys hostels(1, 2 and 3).
- f) From NOC (CSIS building) to CAD lab 12 core OFC uplink is terminated.



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- g) From CAD lab 6 core OFC uplink distributed to Electrical, Mechanical, staff, and auditorium.
- h) From NOC (CSIS building) to IP 24 core OFC is terminated.
- i) From IP Block 6 core OFC is distributed to Civil CAD lab, Civil, EVS, CTM, and Biotechnology.
- j) From IP block to Mechanical CAD lab 6 core OFC uplink is terminated.
- k) From Mechanical CAD lab 6 core OFC uplink is distributed to Mathematics and Polymer Science.
- l) From NOC (CSIS building) to ladies hostel 6 core OFC terminated.

2. Vision and Mission

Vision of the Institution:

Be an international leader in engineering education, research and application of knowledge to benefit society globally.

Mission of the Institution:

- To synergistically develop high-quality manpower and continue to stay competitive in tomorrow's world.
- To foster and maintain mutually beneficial partnerships with alumni, industry and government through public services and collaborative research.
- To create empowered individuals with sense of identity.

3. Information regarding affiliating university



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Visvesvaraya Technological University (VTU) is an institution that is rich in history, academic excellence and leadership. VTU is one of India's leading and largest technological universities. It has 218 affiliated engineering colleges under its jurisdiction. VTU, shown in fig 3, is one of the largest technological universities in India with 20 years of tradition of excellence in Engineering & Technical Education, Research and Innovations. It came into existence in the year 1998 to cater to the needs of Indian industries for trained technical manpower with practical experience and sound theoretical knowledge. University has successfully achieved the tremendous task of bringing various colleges affiliated earlier to different universities, with different syllabi, different procedures and different traditions under one umbrella.



Fig 3: Visvesvaraya Technological University (VTU), Belgaum

VTU has 218 affiliated colleges, 1 constituent college and 17 Autonomous colleges with undergraduate courses in 35 disciplines, PG program in 94 disciplines and Ph.D & M.sc(Engg.) with research programs in 592 departments. Over 4 lakh Engineering Students study in the various institutes affiliated to the University. VTU has 13 Quality Improvement Programme (QIP) centres in various affiliated colleges and 16 extension centres for offering



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PG programs. The University has revised the syllabi for UG and PG from the academic year 2014-15. It has four regional centres across the State of Karnataka in Belagavi, Bengaluru, Kalaburagi and Mysuru respectively. VTU comprises of a multi-disciplinary and multi-level institution offering wide ranging programmes in Engineering, Technology and Management.

In pursuant to the executive council resolution, Karnataka State Government approval letter (ED 107 UNE 2007 dated 03-07-2007) and by exercising powers conferred on Visvesvaraya Technological University by VTU act 2006 (amended) under section (43.A), Sri Jayachamarajendra College of Engineering, Mysore was a permanently affiliated college for 5 years starting from 2007 and is provisionally granted autonomous status for the academic year 2007 – 2008.

4. Information regarding academic autonomy

Sri Jayachamarajendra College of Engineering earned the Grant-in-Aid status in the year 1974 and was conferred the grant of autonomous status from February 2008 (UGC letter no.: F.22-1/2008(AC) dated 29th February 2008) for the period 2008-2009 to 2013-2014. Grant of extension of autonomous status was provided based on the UGC expert committee report and recommendations of Standing committee on 13th October 2015 for a period from 2014-15 to 2019-2020 (UGC letter no.: F.22-1/2015(AC) dated 13th October 2015).

After autonomous status to the college, Seven Graduation Day celebrations were held and following were the Chief Guests of the programme.

Padma Shri Dr. Baldev Raj, Hon. Member, International Committee on NDT and Distinguished Scientist & Director Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu.

Dr. Viloo Morawala Patell, Founder Chairperson & Managing Director, Avesthagen Ltd., Bangalore.

Prof. Roddam Narasimha, Chairman, Engineering Mechanics Unit, Jawaharal Nehru Centre for Advanced Scientific Research, Bangalore.



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Justice M.N. Venkatachalaiah, Hon'ble Former Chief Justice of India.

Padma Shri Dr. H.C. Visvesvaraya, Former Vice Chancellor, University of Roorkee.

Sri A.S. Kiran Kumar, Chairman, Indian Space Research Organization, Bengaluru.

Padmabhushan Sri Babasaheb Neelkanth Kalyani, Chairman and Managing Director, Bharat Forge Ltd, Pune.

SJCE offers Doctoral and M.Sc. (Engg.) by Research programs in all the departments. Sixteen departments have been recognized as Research Centres with an enrollment of 139 research scholars to the Ph.D. program and 22 registrations for M.Sc. (Engg.) by Research. This college also has a very enviable list of over 108 faculty with Ph.D. degrees who are actively involved in teaching, research and consultancy. 87 students have been awarded their Ph.D. degrees through the various Research Centres. SJCE's Vision is to become a premier institution in the country with a leadership in R&D.

The Undergraduate and Post Graduate programs of SJCE are accredited by the National Board of Accreditation since 1998. Subsequently it has been successfully accredited by NBA five times.

SJCE was granted Autonomy to all its Undergraduate and Postgraduate Programs by its affiliating university because of its consistent performance and also getting permanently affiliated in the year 2007.

SJCE has been recognized by University Grants Commission (UGC), Government of India, under section 2(f) and 12(b) of UGC act.

SJCE was one of the very few technical institutions selected by both GOK and GOI in the first phase of Technical Education Quality Improvement Programme (TEQIP) a World Bank initiative and received a grant of Rs.20 crores. With a very high score for its performance in



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the first phase, SJCE was again selected for funding under the second phase of TEQIP and received a grant of Rs.12.5 crores.

The faculty and students involve in research and publish more than 200 papers in national and international journals every year. One of our Professors of Civil Engineering was awarded Indian Concrete Institute's Best Researcher Award. Academic Research Award of Excellence - 2013 was given to the Department of Polymer Science and Technology from Additive Manufacturing Society of India.

SJCE has a very strong Industry Institute Partnership that has culminated in the establishment of several laboratories as well as identification and development of need based courses, that helps the industry develop manpower to drive the futuristic technologies.

SJCE has successfully signed many MOUs with organizations of international repute like: Bosch Rexroth; Analog Devices; Phillips; Schneider Electricals; IBM and PACE (Partners for the Advancement of Collaborative Engineering Education). SJCE has also signed a few MOUs with Research Organizations and Foreign Universities for enhancing research and faculty development.

SJCE also has a very enviable Placement History. In the academic year 2016-17, the placement cell has been successful in placing 779 students across 101 companies.

SJCE celebrated its Golden Jubilee Year and conducted a lot of activity throughout the year. It had organized the 2nd International Conference on Advances in Computing, Communication & Informatics and an International Symposium on High Speed Rail. It had organized twelve Expert Lectures/workshops from international experts in various fields. A golden jubilee block built at a cost of Rs.12 Crores and was inaugurated by Dr. Sam Pitroda, Chairman, National Innovation Council, New Delhi, on 22nd March 2014.



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On 31st March 2015, the college celebrated the Valedictory of the Golden Jubilee Celebrations. The Former President His Excellency Late Dr. APJ Abdul Kalam was the Chief Guest for the function. His presence has inspired us to head forward with high vigor in delivering technical education.

SJCE has also produced some very successful entrepreneurs who are making their humble contribution to the society. I-Cal, Exelsoft, ICAD, Object Orb, For-US are some of the few. SJCE-STEP which is meant for spotting and training entrepreneurs is constantly striving to promote the spirit of entrepreneurship. Our students are trained and even encouraged to incubate their business concepts and dreams in the SJCE-STEP that is on our campus.

SJCE is very proud to have a long list of very illustrious Alumnus like the Chief Minister of Uttar Pradesh, International sports personalities, accomplished academicians teaching in premier institutions and very successful businessmen.

SJCE, that has a commitment to the cause of Technical Education”, has always believed in the overall development of its students to make them the most enviable employees of organizations – most adorable citizens in the society – and most admirable human beings.

SJCE houses Hostel facilities for Boys and Girls on and off campus, accommodating 600 boys and 350 girls. It also provides general amenities facilities for all the students.

The Government of Karnataka has accorded approval for establishment of JSS Science & Technology University under State Private University and now it is functioning from 2016-17.

Proposed planning :

SJCE with the approval of the Management has prospectively planned to create new infrastructure facilities namely – An Auditorium accommodating 1000 members, an



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Administrative and Library Block and Academic Block of six floors to accommodate Mechanical Engineering, Electrical & Electronics Engineering, Instrumentation Technology and Industrial & Production Engineering.

5. Important accomplishments and highlights of SJCE

- The founder President H H Dr. Sri Shivarathri Rajendra Mahaswamiji had very personal interest on SJCE since it was during his time that the institution took its birth. Sri Rajendra Swamiji regularly visited the institution accompanied by other pontiffs for a regular evening walk.
- The Technical Education unit of JSS Mahavidyapeetha, under the leadership of Prof. M.H. Dhananjaya, has four Engineering colleges, four polytechnics, three ITI's, three STEP's and other technical institutions.
- SJCE celebrated year long Silver Jubilee celebration during 1988. As part of this, have arranged a series of Lectures, rather discourses by the following eminent personalities.
 - Prof. S. Sampath
Chairman, Recruitment and Assessment Centre, Defence R&D Organization, New Delhi
 - Padmabhushan Dr. Kota Shivarama Karanth
Gnanapeetha Awardee, Distinguished Fellow of the Sangeetha Natak Academy and Sahithya Academy
 - Dr. N. Rudraiah
Department of Mathematics, Bangalore University, Bangalore
 - Sri G.V. Iyer
Lyricist, Film Actor, Director, Writer
 - Kalaprapurna Dr. Chittibabu
Veena Maestro
 - Dr. R.M. Varma
Neuro Surgeon and Eminent Professor, Nimhans, Bangalore



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- o Dr. H.R. Nagendra
All India Secretary, Vivekananda Kendra Yoga Therapy & Research Centre,
Bangalore
 - o Dr. P.K. Sethi
Emeritus Professor of Orthopaedics
 - o Er. V.R. Deenadayalu
Chairman, Madras Refineries Limited, Madras
 - o Dr. P.M. Bhargava
Director, Centre for Cellular & Molecular Biology, Hyderabad
 - o Dr. E.C.G. Sudarshan
Director, Institute of Mathematics Sciences, Madras
 - o Dr. Ashok Chandra
Educational Adviser (T), MHRD, Government of India, New Delhi

- Eleven eminent engineering academicians and professionals have served as Principals of this enviable institution.
- SJCE PACE (Partnership for Advancement of Collaborative Engineering Education) center, an initiative of General Motors (GM), developed as a consortium of multinational companies was sanctioned to SJCE in 2008 among 45 institutes globally. Since then students of SJCE have won first/second positions in the annual global PACE competitions held world over for their innovative projects.
- SJCE in association with Karnataka State Cricket Academy established the JSS-KSCA cricket ground of international standards in 2012 at SJCE campus to promote cricket in the region.

Graduates from SJCE have performed exemplarily well and occupy high ranking positions. To name a few notable alumni

- Mr. AkhileshYadav, Hon'ble Chief Minister of Uttar Pradesh



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- Mr. Javagal Srinath, former Renowned Indian cricketer and International Referee
- Mr. Prahlad Srinath, Tennis player
- Mr. Vijay Prakash, Playback Singer
- Dr. Navakant Bhat, Professor, Centre for Nano Science and Engineering (CeNSE), IISc Bangalore
- Dr. Srinivasa Narasimhan, Associate Professor, Robotics Institute, Carnegie Mellon University, USA
- Dr. Tomy Varghese, Associate Professor, Biomedical Engineering, University of Wisconsin at Madison, USA
- Dr. Niranjana Shivarathri, USA

During the golden jubilee year (2013-14), the institution celebrated its evolution of growth and achievement through a number of exciting program, events and activities as under:

- Mr. Ronaldo Laishram, a focused innovative student of First Year B.E in Computer Science & Engineering, has made the preliminary discovery of Main Belt Asteroid MAUR397.
- A Golden Jubilee Bhavan was constructed and inaugurated by Padmabhushan Dr. Sam Pitroda in 2014.
- The alumni proudly organized a Global Alumni meet on 21 December, 2013. On several different occasions alumni from different organizations interacted with our faculty and students instilling in them innovative urge to meet current global needs.
- Several National and International conferences, workshops and seminars were organized as part of the Golden Jubilee Celebration - International workshop on Construction Technology Management & Building Services.



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- Second International conference on Advances in computing, communications & informatics.
- IEEE– International Conference on Contemporary Computing and Informatics were successfully organized.
- A total of 37 different Workshops/Conference/Symposium/Training programs were organized.
- The faculty and students experienced research deliberations by world renowned scientists and eminent personalities like Fransisco De A T. De Carvalho from Brazil, Dr. Naoki Yamamoto from Singapore, Mr. Schoof from Germany, Sri B.N. Jayeshankar, Adarsh Developers; Sri Javagal Srinath, Sri Srinivasan Nagarajan, Vice President, Infosys etc. Seventeen such programmes were conducted.
- The institution further expanded its collaborative tentacles by signing MoUs with five different organizations of National and International repute, viz., Arizona State University, USA, IBM, India, IIT Hyderabad, Tata consultancy services, NYSE.
- The enthusiasm of being a part of the golden jubilee year, our students actively participated in sports activities and won laurels on 22 different occasions at National and International events.

Several dignitaries who were invited and graced the campus as part of the Golden Jubilee celebration are as under.

- o Hon'ble Chief Minister of Uttar Pradesh Sri Akhilesh Yadav.
- o Dr. Venkat Rao, Hon'ble Vice Chancellor, National Law School of India University, Bengaluru.
- o Padmashree Dr. H.C. Visvesvaraya, former Vice Chancellor, University of Roorkee.



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- o Prof. K. Chidananda Gowda, former Vice Chancellor, Kuvempu University.
 - o Dr. P. Nagabhushana, Director, IIIT, Allahabad.
 - o Eminent industry personals, scholars, intellectuals, social activists, artists, musicians, and so on were also invited to participate in different events as part of the celebration of Golden Jubilee.
- A number of students-led events conducted are as under: Cyberia 14 – Tech fest organized by IEEE SJCE; Technologix organized by Computer Society of India – SJCE; FOSS Camp SJCE Organized by Dept. of Computer Science & Engineering; and JAYCIANA a unique cultural college fest.
 - SJCE also has evolved as the best sought out college in the minds of students after bagging a record number of 732 offers by 80 different companies.
- Placement cell also attracted many noted MNC's and few fortune 500 companies to campus like LinkedIn, Google, Microsoft, Intuit, Daimler Benz, General Motors, Atkins, Oracle, SAP Etc.
- The college hones a very strong Industry Institute Interaction culture which has led to an establishment of exclusive industry project oriented laboratories by Cisco, Schneider, Philips, PACE, Motorola, Nokia , and Bosch.

Principals of the College

Sl. No.	Name	Period	
		From	To
	Dr. M. Siddalingaiah	20.06.1963	30.09.1963
	Prof. Kasturi Rangachar	01.10.1963	11.06.1964



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	Sri Parashivamurthy	12.06.1964	18.08.1972
	Sri G.T. Gubbanna	19.08.1972	16.05.1974
	Prof. M.H. Dhananjaya	17.05.1974	14.04.1993
	Prof. K. Shivalingappa	15.04.1993	22.06.1993
	Dr. M.S. Jayadeva	26.06.1993	31.05.2000
	Dr. K. Chidananda Gowda	01.06.2000	17.10.2001
	Dr. M. Shanthakumar	18.10.2001	31.10.2003
	Dr. B.G. Sangameshwara	01.11.2003	31.10.2013
	Dr. Syed Shakeeb ur Rahman	31.10.2013	16.01.2017
	Dr. T.N. Nagabhushan	16.01.2017	12.08.2020
	Dr. S.B. Kivade	12.08.2020	Till date

6. Infrastructure: Academic, Library, Computer Centre, Hostels etc.

SJCE strategizes to utilize the very best of education technology, optimize teaching methods, and encourage new inter-disciplinary research programmes that help connect teaching and research, including applied and action research projects.

6.1 Academic:

SJCE has the reputation of academic excellence in professionally oriented programs, and equal proficiency in extra-curricular activities, that makes it a lucrative option for students from all over the country, especially those staying in the remote places eyeing at Engineering Career. SJCE is strategically planned and established with a sole aim to “Serve the Mankind through Education”.



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There are three categories of programmes offered as shown in fig 4.

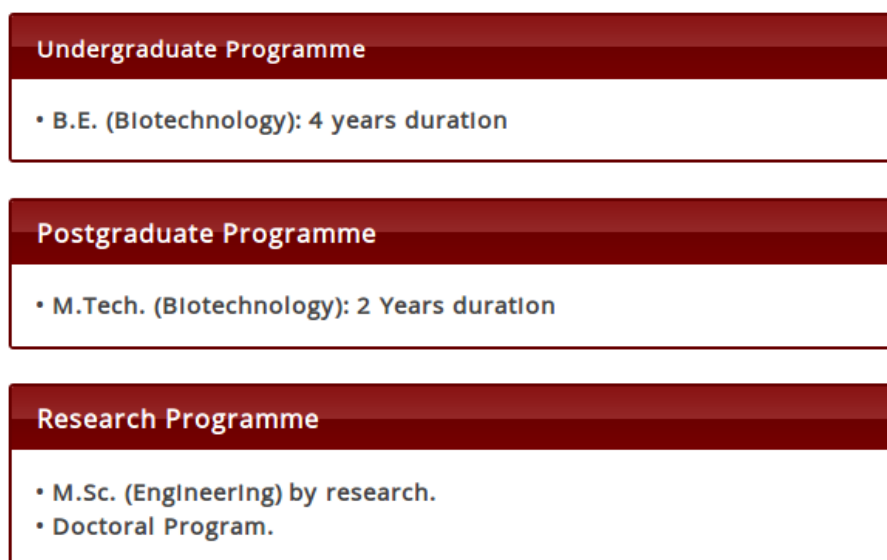


Fig 4: Programmes offered

6.2 Library

Library and Information Centre was established in the year 1963. Now, this is one of the best engineering college libraries in the state. It started its function with a vision, “Provide access to and preserve materials to meet the needs of present and future generations of students and scholars”. It mainly comprises books related to engineering and allied subjects. It



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contains four sections namely, Lending/Stock Section, Reference Section, Digital Library and Reading Room.



Library and Information center

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The library has an affluent collection of over 1,36,047 Volumes of Text Books, Reference Books, Directories, Yearbooks, Biographical sources, Humanities, Abstracts, Literature and Management Books. The library has amazingly a rich collection of Thesis, Dissertations, Encyclopedias and General books including Kannada & English novels. Addition to it, a collection of books, CD/DVD's are available to encourage the Students in preparation of



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competative examinations like IAS, IPS, GATE, TOFEL, GRE & various National & International level exams.

The library has a subscription of 162 Technical journals, 30 general magazines and it has a subscription for full text e-Journals like IEEE-IEL Online, Elsevier (Science direct), ASCE, ASME, Springer, Taylor & Francis, ProQuest, Knimbus Digital Library, Membership of DELNET, Remote Access Solution Comprising of more than 5754 journals, NPTEL lecture series (National Programme on Technology Enhanced Learning) to access video lectures.

Library & Information Centre provides uncompromising information and intellectual requirements to its students and faculty with a user-friendly approach. It offers a fully integrated and dynamic environment for conducting academic study. Multiple copies ensure that the resources are easily available in Reference Section and Stock Section as well. Besides this, it provides Lending of books and journal back-volumes, photocopying, CD/DVD and Internet services, etc.

Digital library is equipped with 20 computers to access the E-Journals, E-books and CD/DVD's. In-house operations of the library are fully computerized by using libsoft software.

Book Circulation Service

- Reference service / Referral Service
- Journals & General magazine section
- Newspaper section
- Web OPAC / Bibliographic service
- Online Access to e-resources
- Digital Library services
- Inter Library Loan / Document delivery service (through DELNET)
- Reprographic services
- SC & ST Book Bank scheme, Etc...
- Knimbus E-Library Service



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Digital library services.

Digital Library is equipped with an exclusive IBM DS 3400 Storage Server, Techfocus Digital Library software 4.0 and 20 computer systems. It provides an access to:

- Books/ Journals/Magazine
- Faculty Publications
- Previous year Question Papers
- College Photo Gallery
- Syllabus of all Semesters and all branches
- CD-Mirroring (CDs/ DVDs)
- Project Reports UG/PG
- Video Tutorials

Students and Staff members are requested to access the above resources through Intranet (within the campus) by visiting <http://10.24.7.3> (click on browse, give appropriate key-word search or appropriate category, User ID- student PW- student).

Restrictions on access and downloading of licensed e-Resources. The e-Resources are licensed for the non-profit educational use of the Institute. Copyright law governs use of these e-Resources.

Doing the following things is strictly prohibited:

- Illegal downloading, distributing, or retaining substantial portions.
- Forwarding electronic versions of articles or the use of electronic articles for commercial purposes.
- Strictly prohibited to download entire journal issue or databases or an entire e-book.

Why should we not do the above things?



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- Improper use can result in denial of access for the whole Institute to all electronic journals from a given publisher.
- Access to e-Resources is based on license agreements with publishers.
- Library users are permitted to make digital copies of individual documents, that is, to download an individual document temporarily to their own hard disc for non-commercial purposes only.
- Under the terms of use it neither permits forwarding electronic versions of articles nor the use of electronic articles for commercial purposes.
- Publishers keep track of patterns of use and where the publishers suspect misuse in the form of systematic downloading (ex. more than one article from an issue, continuous downloading from a particular journal etc.).
- They will cut off access requiring Library to investigate and take action on those who have misused the e-Resources.
- There have been instances where publishers have withdrawn access to their online resources to the entire Institute.
- This prevents access by the majority of responsible users to information needed for their research and learning.
- It becomes obligatory on the library's part to investigate such misuses and report the same to the publishers.
- Takes longer time to get the access restored and convince the publisher that re-occurrence of such misuses will be stopped.

Developing Library Network (DELNET)/Inter Library Loan

Developing Library Network (DELNET)/Inter Library Loan is a network of 5144 institutions and access is being given to more than 50 lakh records through online systems. DELNET has been actively engaged with the compilation of various union catalogues of the resources available in member libraries. It has already created the union catalogue of books, union list of current periodicals, CD ROM database. DELNET provides an array of facilities including E



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mail to its member libraries including both institutional and associate institutional members.

It has indeed been a big leap towards the modernization of libraries in India.

Reference section:

This section has Encyclopedia, dictionaries, Text books reference books etc. which are only available for reference. User can make use of these resources.

Journal Section:

In this section, journals, general magazines and News letter are available. They are arranged Subject wise. The latest issues are displayed on display rack and other previous issues are arranged in the drawer. Bound volumes of periodicals are arranged in rack Subject wise and are meant only for reference within the library.

6.3 Hostels

SJCE Boys Hostel



Boys Hostel

SJCE Boys Hostel was established in 1963. Around 700 students can be accommodated and following necessary facilities are available.

1. RO System for drinking water (24 hours, Capacity:1000Litres/Hour)



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2. Electricity (24 hours)
3. Hot water facility
4. TV room
5. Reading hall (News paper, Magazines Etc.,)
6. Wi-Fi internet facility
7. Parking lot for two wheelers
8. Cloths Washing Area.
9. Laundry Facility.
10. Generator Facility.

The hostel currently facilitates about 645 boys [UG-594 students and PG (M.Tech/MCA/MBA/M.sc)– 51 students].

SJCE Girls Hostel



Girls Hostel



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SJCE girl's hostel was established in the year 2003. Around 200 hundred students can be accommodated in the campus hostel and 182 students in the Hootagalli hostel which is located 6km away from the campus.

In the current academic year, 355 students are residing at campus and Hootagalli hostel.

7. Department's profile with infrastructure & facilities

The department details with infrastructure and facilities available are given below.

1. Department of Biotechnology



Fig 5: Biotechnology department lab

As a part of the institutes expansion program the department of Biotechnology was instituted in the year 2002. The Department of Biotechnology at SJCE provides a full education within the integrated fields of Biotechnology. The department has technical and innovative excellence of its faculty. The department also boasts of modern and fully equipped laboratories and state of art infrastructure. The syllabus which has been designed by renowned academicians with input from industrial personnel is in tune with the latest developments in the biotech arena and has been chalked out keeping in mind the career prospects for students. The students are thus equipped with an in depth understanding of the field with an updated perspective of most recent developments around the world,



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thereby making them technically superior and cut above other graduates. The department has a strong team of faculty drawn from both biological science and engineering background. This enables in imparting to students an amalgamated knowledge of science and Engineering.

Facilities in the department of Biotechnology are enlisted in table 6.

Table 6: Facilities in department of Biotechnology

SL. No.	Name of the Laboratory	Name of some important Equipment	Lab In charge	Utilized for programme	
				Under graduate / Postgraduate	Research
1.	Research Lab	1) NanodropFluorospectrometer 2) Electronic Balance 3) Liquid Nitrogen Container 4) UV-Vis Spectrometer 5) PCR machine 6) Rotovap with Digital Bath Super Fit 7) Refrigerated High Speed Cooling Centrifuge 8) Vertical Deep Freezer	Dr. S. NanjundaSwamy	Y	Y
2.	Plant and Animal Cell Tissue Culture lab	1) Water purification System 2) Quartz Double Distillation Unit + Electronic Relay + Softener 3) Plant Growth Chamber 4) Horizontal Laminar Air flow Chamber 5) Vertical Laminar Air Flow Chamber 6) Membrane Filtration System 7) Heavy Rotary Shake 8) Water bath shaker 9) Precision Balance 10) DNA Sequencer 11) Photo bioreactor 12) Refrigerator	Dr. B. P. Hema	Y	Y
3	Microbial Technology Lab	1) Auto Clave 2) Analytical Balance 3) pH. Meter 4) Fermenter System	Dr. K. R. Sanjay	Y	Y



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		5) Incubator Shaker With Illumination 6) Horizontal Laminar Air flow Chamber 7) Distillation Unit 8) Micro scope Model BA 210 Digital 9) Digital probe sonicator 10) Hot air Oven 11) Magnetic Stirrer 12) Refrigerator 13) Micro Oven			
4	Bio-Engineering lab	1) Plug Flow reactor 2) Mixed Flow Reactor 3) Sedimentation Unit 4) Liquid Liquid Extraction Equipment 5) Interacting Trainer 6) Non Interacting Trainer 7) Thermo couple Module 8) pH. Control Trainer 9) Level Measurement Trainer 10) Flow measurement Trainer 11) Temperature Process Control 12) Process Control Simulator 13) RTD In Mixed flow Water Reactor 14) Pressure Process Controller 15) Manometric Energy Equation unit (<i>Shared with Civil Dept</i>) 16) Rotmeter and Orifice Meter (<i>Shared with Civil Dept</i>) 17) Refrigerator 18) Tubular Bowl Centrifuge	Ms. Lakshmi S	Y	Y
5	Molecular Biology & Genetic Engineering Lab	1) Hot air oven 2) C8C centrifuge 3) Constant temperature water bath 4) pH. Meter 5) -86 ⁰ C Deep freezer 6) Refrigerator 7) Electrophoresis Unit power supply 8) Thin layer chromatase TLC 9) Colorimeter 10) Distillation Unit 11) Weighing Balance 12) Balance max-3200g 13) Heating mantle 14) Convection grill microwave oven 15) Shaking Water bath incubator wit Digital Display 16) Table Top Centrifuge Constant temperature water bath	Dr. S. NanjundaSwamy	Y	Y
6	Computational Lab	1) PCs for Students- 33 2) Hi - Speed wifi 3) LCD and OHP Projector	Dr. B. P. Hema	Y	Y

2. Civil Engineering



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Fig 6: Department of Civil Engineering

The Department of Civil Engineering was established during 1963. It possesses state of the art facilities to cater to the needs of undergraduate students, post graduate students and research scholars. The department has distinguished faculty with specialisation in almost all major areas of civil engineering. It is active in offering continuing education programmes to the professionals from industry and academia. The department provides testing and consultancy services to various government departments and to the construction industries in and around Mysuru. The faculty members have excellent relationship with IISc, IITs, NITS and other reputed universities in the country. Faculty members of the department are acting as paper referees of national and international journals. The department is proud to have distinguished alumni doing excellent professional work at the global level.

Facilities available are:



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Programme Specific Laboratories

- > Basic Materials Testing Laboratory
- > Surveying Laboratory
- > Concrete Laboratory
- > Hydraulic and Hydraulic Machinery Laboratory
- > Highway Materials Testing Laboratory
- > Geotechnical Engineering Laboratory
- > Computer Center

Research Laboratories

- > Structures Laboratory
- > Earthquake Engineering Laboratory
- > Dynamics Laboratory
- > Geotechnical Engineering Research Laboratory

3. Department of Chemistry

Department of Chemistry was established as a part of SJCE in 1963 and it has got a excellent qualified faculties offering Masters of Science and Doctoral Programmes (Ph.D) in the area of Chemistry. M.Sc Chemistry with four core modules of Analytical Chemistry, Organic Chemistry, Inorganic Chemistry and Physical Chemistry. The department apart from its main tasks of involving itself in an academic teaching and research has been also periodically interacted and established a mutually beneficial relationship with the nearby institution. The state of the art infrastructural facilities, faculties and expertise has been the hall mark of the department. This course is academic, industry and research oriented programme. A good number of industries contacted for M.Sc Chemistry course. Regular teaching and research laboratories are well equipped with sophisticated instruments to meet needs of the students. Department has achieved remarkable progress in terms of research output. The department at present has 15 researchers registered for PhD programme with 2 thesis



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submitted and 3 awarded. The main areas of ongoing research are synthetic organic chemistry, medicinal chemistry, synthetic organometallic chemistry, green chemistry, nano chemistry, biosensors and co-ordination chemistry. Every year the department is organizing seminar, workshops and conferences to provide a platform for scientists and industrialists to discuss for mutual benefits.

Table 7: Facilities available in Department of Chemistry

Chemistry Lab	
Sl.No.	Equipment /Machinery/Computer system
1.	Aqua Soft water model, Bhanu make
2.	Sartorius Analytical balance , Model-BSA224S-CN
3.	pH Meters, Conductivity Meters, Potentiometers, Spectrophotometers and Flame photometers
Research Lab	
Sl.No.	Equipment /Machinery/Computer system
1.	Double distilled water plant Bhanu make
2.	BOD Incubator
3.	Refrigerator
4.	Rotavapor with pump
5.	Electrochemical work station with impedance analyzer.
6.	Muffle Furnace
7.	Ultrasonication Bath
8.	Electrophoresis Unit
9.	Sartorius Analytical balance , Model-BSA224S-CN.

4. Computer Science and Engineering

The inception of Department of Computer Science and Engineering (CS&E) was one among the first to be established in the State of Karnataka in the year 1982. Our mission is to create ideas that deepen and advance our understanding of the realm of Computer Science and Engineering and with those ideas to develop innovative, principled, and insightful leaders who change the world. Classes are conducted on a full-time and on part time basis in an intimate-scale environment, and take full advantage of the assets provided by JSS Science and Technology and its surrounding communities. The department is actively involved in



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International collaborative research and also in sponsored research projects through various funding agencies:

Science and Engineering Research Board (SERB)

Ministry of Human Resource Development (MHRD)

University Grant Commission (UGC)

Department of Science and Technology (DST)

The facilities available are shown in Table 8:

Table 8: Facilities available in the Department of CSE



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Sl. No	Name of the Laboratory/ Workshop	Carpet Area available (Sq. M)	Major equipments	
1.	CS Software Lab - I	113	Computers	Pentium-IV : 45 Nos.
			Network Devices	CISCO WS 2960 48TTL 48 Port Fast Ethernet Switch : 02 Nos.
			Power Supply	Alpha 15 KVA UPS
2.	CS Software Lab - II	113	Computers	Pentium –IV : 45 Nos.
			Network Devices	CISCO WS 2960 48TTL 48 Port Fast Ethernet Switch : 02 Nos.
			Power Supply	Alpha 15 KVA UPS
3.	First Year Lab	113	Computers	Intel Core Duo : 45Nos.
			Network Devices	CISCO WS 2960 48TTL 48 Port Fast Ethernet Switch: 02 Nos.
			Power Supply	Alpha 15 KVA UPS
4.	P.G & Research Lab	58	Computers	Intel Core Duo : 18Nos.
			Network Devices	CISCO WS 2960 48TTL 24 Port Fast Ethernet Switch : 02 Nos.
			Power Supply	Alpha 10 KVA UPS
5.	English Lab	179.5	Computers	Intel Core Duo : 80 Nos.
			Network Devices	CISCO WS 2960 48TTL 48 Port Fast Ethernet Switch: 02 Nos.
			Power Supply	Alpha 10 KVA UPS: 02 Nos
6	Hardware Lab	113	Computers	Intel Core Duo : 25Nos.



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7.	Pattern Recognition and Image Processing Lab	18	Computers	1. High End Image Processing DELL Precision T3610 CTO Base Workstation: 01No 2. High End Graphic's DELL Precision T1700 MT Workstation:06 Nos
8.	Server Room	18.21	SERVERS	1. IBM Tower server X3300 M4 Red Hat Enterprise Linux Release 7.0 2. 1. IBM Server Consolidation and Virtualization Red Hat Enterprise Linux Release 7.0
			Network Devices	Core Switches(CISCO3750 G Series 24 port Gigabit Switch) with 6 SFP Slots CS uplink Switch(CISCO WS2960C24TC-L 20 Port Gigabit Switch) with 4 SFP Slots
9	Class Room's-05 Nos	113(Each)		Multimedia Projector
10	PG Class Room-01	58		Multimedia Projector

4. Construction Technology and Management

The Department of Construction Technology and Management (CT&M) was established in 2004 with a vision to produce well trained engineering graduates to cater the needs of construction industry. The Department is empowering the students with innovation, research and entrepreneurial thoughts ever since its inception. The graduates are being well placed in industry, academia as well as Government sectors. The Department of CT&M at JSS&TU provides a full education within the integrated fields of Civil, architectural and project management. The courses span from introductory classes on bachelor level to advanced courses on master level and doctoral programs. The Department has well experienced and dedicated faculty with two doctorates, seven pursuing their Ph.D. The unique combination of faculty members with expertise in structural engineering, geotechnical engineering materials, construction technology and management, building services and good laboratory facilities brings an interdisciplinary research culture in the department. The Department is enriched with good supporting



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staff and library with good number of books relevant to the programs, The department has good track record of campus placement and internships, excellent laboratories with latest software's and state of Art equipments, class rooms with multimedia projection, 24/7 Wi-Fi Facilities. The department is proud to have distinguished alumni, who excelled in their career with outstanding performance at the global level too.

5. Electrical and Electronics Engineering

The Department of Electrical and Electronics Engineering was established as one of the three basic engineering departments when the institution was founded in 1963. It has well qualified and experienced teaching faculty and good infrastructure.

B.E. Program in Electrical and Electronics Engineering and M.Tech. Program in Energy Systems and Management run by the Department have been granted autonomous status by V.T.U. The Department has its own Board of Studies (BoS) and Board of Examiners (BoE) consisting of the staff members of the Department as members in addition to experts drawn from external institutions of excellence and also from industry. The BoS meets as and when required to discuss and update the curriculum. This has helped in making a curriculum that is outcome-based, dynamic, on par with the current developments in technology, to meet the requirements of industry. The Department also has laboratories setup in collaboration with industries like Schneider Electric.

For the M.Tech. Program in Energy Systems and Management which is run by the Department, Electricity Supply Companies (ESCOs) are sponsoring on an average three to five candidates their working engineers. Curriculum for this program has been designed taking inputs from IIT's, Bureau of Energy Efficiency, power companies, and other institutions of excellence like The Energy Resources Institute (TERI).

The Department encourages students to go for post-graduate programs by conducting training sessions for preparation for GATE. The Department encourages students to go for internships at various industries, and other institutes of higher learning during vacations by



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giving them the necessary support. The Department also encourages students to make technical visits to industries, generating stations, substations and load dispatch centres for a broader exposure to real life environment. The Department is also involved in the conduction of teacher training programs in association with IIT Bombay under the National Mission on Education through ICT (NMEICT), funded by MHRD, New Delhi.

The department has a MOU with BMS College of Engineering in the area of Applications of High Voltage Engineering. The department has a well equipped Electrical discharge based pollution control research lab funded by AICTE, VTU and DST. The Department has been receiving funds from VTU, AICTE, and DST for modernization of existing labs and for setting up of laboratories.

6. Electronics and communication Engineering.

The department of E&C was established in 1968. It offers undergraduate & post graduate programmes. In addition to these, it also offers M.Sc. Engineering by research & Ph. D programs which provide a platform for bright graduates and postgraduates to conduct research in state-of-the-art technologies. The department is composed of well qualified faculty with good retention. The Department is also a recognized centre under the Quality Improvement Program (QIP) of the Government of India. The curriculum provides a strong foundation in both the analytic and technological aspects of E&C Engineering. It also provides ample opportunities to students to work on mini-projects, develop communication skills, explore internship opportunities in industry and take part in national & international design contests like PACE, Aero-design It has very good placement record in the college. Very active IEEE student chapter organizing National paper presentation competitions and other events such as Vacation Project Mania, Latex workshops & mini project competitions, etc.

The regular activities of the department include monitoring Internships for UG and PG students at various Industries and Institutes like IISc, IIT's and NIT's, organizing Industrial visits for UG and PG students, Conducting Expert lectures and workshops to UG and PG



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students, providing National Centre for MEMS design and e-Yantra lab where students will be doing projects.

In addition, provides interaction with industries like Philip and analog devices where the students get opportunity for internships.

Facilities available: Basic Electronics Lab focuses on the skills of designing, developing, and testing wide range of electronic circuits using test and measuring instruments like cathode ray oscilloscopes, function generators, digital multimeters etc. In this lab, the students will be able to carry out the experiments and analyze the electronic circuits such as rectifiers, diodes, amplifiers. Digital Electronic Circuits Lab will enable the undergraduate students to learn the basic concepts and techniques in digital electronic circuits. The learning objective of this laboratory is to supplement the theory course of digital electronic circuits with adequate introduction to both combinatorial and sequential logic circuits, such as, adders, subtractors, comparator, multiplexer/DE multiplexer, encoders/decoders, 7-segment display and decoder/driver, flip-flop, register, counter, etc. and various combinations of these.

Basic Laboratory Instruments include Oscilloscope, Function Generator, Digital Millimeter, DC Power Supply and Digital trainer Kits for First Year EC and Second Year EC students.



Fig 7: Basic Electronics and Digital Electronics Circuits Lab



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Similarly other lab facilities available are Digital System Design and Digital Signal Processing Lab, Communication Lab, Microcontroller, Microprocessor, VLSI Lab, 5. Analog Electronic Circuits and Linear Integrated Circuits lab, Power Electronics Lab, Networking and Simulation Lab, Automotive Electronics Lab, e-Yantra Lab and other labs.

7. Environmental Engineering

The Department of Environmental Engineering was born as an off-shoot of Civil Engineering in the year 1987 obtaining a grant-in-aid status in 1993. Since then, the dept is full-fledged in running one undergraduate (U.G.) program and two Post graduate (P.G.) programs – M.Tech. in Environmental Engineering and M.Tech. in Health Science and Water Engineering. The U.G. program and the M.Tech. program in Environmental Engineering are accredited by NBA of AICTE, New Delhi.

The Faculty in the Department of Environmental Engineering are highly qualified, dynamic, motivated, with acquired technical expertise and critical thinking skills in their chosen area of professional domain. The Faculty are actively involved in sponsored Research and Development (R&D), Research-Consultancy, Finishing School, GIAN programs, Seminar and Workshops, Invited Technical talks and Industry-Institute Interactions. The distinguished Alumni have made a niche through exemplary contributions to the needs of the society and also realizing their dreams of high echelons.

Table 9: ADVANCED INSTRUMENTATION LABORATORY

Specialized equipment name	Application of Equipment
BOD Analyser	Determination of BOD in various wastewater and other water sources.
Digital Micro-Weigh Balance	Measure the chemicals in micro grams.



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UV-VIS Spectrophotometer	Analysis of parameters at different wavelength.
High Performance Liquid Chromatography	Pesticide forensics – Organic compounds, Phenolic compounds
Inductively Coupled Plasma emission spectrometer	Detection of heavy metals in water samples
Vernier Mini Gas chromatograph	Forensic analyses of organic compound and gaseous samples.
Ion Analyzer	Analysis of ions in water and wastewater.
Automatic titrator	Titration without adding any buffer solution and indicators.
Tintometer Calorimeter	To measure the color of water and wastewater.
Distillation unit	Distilled water for analysis of different parameters.
Hot air oven	Total Solids in water and wastewater, moisture content in sludge/soil/solid waste

Table 10: ENVIRONMENTAL ANALYSIS LABORATORY



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Specialized equipment name	Application of Equipment
Turbidity meter	Turbidity measurements in water and wastewater
Conductivity meter	Measurement of conductivity in surface and ground water, wastewater, etc.
pH meter	Determine the pH of water and wastewater
Flame photometer	Determination of Na & K
TKN Unit	Measurement of TKN in wastewaters
Portable Spectrometer	Analysis of absorbance of NO ₃ , PO ₄ , Fe, SO ₄ etc. at different wavelengths.
Reverse Osmosis Unit	Removal of ions, molecules & pollutant from water.
Digital Weigh Balance	Measure the quantity of various chemicals
Distillation unit	Distilled water for preparation of lab reagents.
Sample preservator	To preserve the samples
BOD incubator	To maintain favorable temperature for the microbial growth.

**Table 11: ENVIRONMENTAL PROCESS LAB**

Specialized equipment name	Application of Equipment
Jar test apparatus	Optimum Coagulant dosage
COD Digester	Oxygen demand in water and wastewater
Muffle furnace	Volatile solids and ash, metal recovery
Bacteriological incubator	To maintain favorable temperature for the microbes to multiply.
Hot air oven	Total Solids in water and wastewater, moisture content in sludge/soil/solid waste
Desiccators	To reduce the sample temperature to room temperature
Water bath shaker	Development of microbial culture, agitation, tertiary treatment.
pH meter	Determine the pH of water and wastewater

Table 12: COMPUTER AIDED DESIGN (CAD) LABORATORY

Specialized equipment name	Application of Equipment



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Computers	Excel plots, C Programmes and environmental design and model softwares
Printers	To get the Print out of C programmes.
Softwares	Water supply distribution, Pumping main, water and wastewater treatment plants design, air, river and subsurface modeling, GIS and image processing, etc.

Table 13: MICROBIOLOGY LABORATORY

Specialized equipment name	Application of Equipment
Bacteriological Incubator	Incubation of microbiological samples
Microscopes	Identifying microscopic organisms
Autoclave	Sterilization of glass wares, media and other accessories
Cooling Centrifuge	Solids separation from slurry
Temperature controlled water bath shaker	Adsorption studies for tertiary treatment, microbial culture.
Bioreactor/Fermenter	Parameter control



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Laminar Flow Cabinet	Preventing air entrainment into the inoculation cabinet
Membrane Filter Unit	Filterability potential
Colony Counter	Counting Microbial Colonies
Distillation unit	Distilled water required for analysis of different parameters.
Hot air oven	Total Solids in water and wastewater, moisture content in sludge/soil/solid waste

Table 14: ATMOSPHERIC ENGINEERING LABORATORY

Specialized equipment name	Application of Equipment
Lux meter	Intensity of light
Noise dosimeter	Levels of noise
Gastec pump	Air analysis
High volume air samplers with cyclone	Analysis of SPM, SO _x and NO _x
High volume air samplers RSPM	Analysis of PM _{2.5} and PM ₁₀
Gas Air Sampler	Sampling of Air.



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VOC Analyser	To detect VOC in indoor and outdoor air
Peristaltic pump	Pumping of water and wastewater for lab scale studies
Microbial Air Sampler	Microbial sampling of indoor and outdoor air
Vehicle Exhaust Analyser	Emission test of vehicles- CO, HC, CO ₂ , & O ₂
Stack monitoring kit	Stack exhaust gas analyser

Table 15: RESEARCH FACILITIES

Name of the laboratory	Specialized equipment name	Application of Equipment
Advanced Biological treatment lab	Auto-controlled bio-reactors for monitoring specialized water quality parameters. UASB reactors for treatment of medium and high strength wastewaters. Pesticide transport through 3D sub soil.	Treatment of industrial wastewater using aerobic microbiological processes.



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Electro-chemical R & D laboratory for industrial wastewater treatment funded by UGC, NRB, MoEF, TEQIP-I	DC Power supply units, Hot air oven, Muffle furnace, Digital balance, ECRs, Magnetic stirrers, DRB 200, Water quality kits, COD Digester, Adsorption columns, filter units, etc	Treatment of contaminated waters and industrial wastewaters and electrochemical remediation of contaminated soils and metal recovery
Research laboratory funded by VTU, MoEF & DST.	SBR units, electro-chemical units (procurement process in progress), COD digester, Ion analyzer, UV-VIS spectrophotometer	Water & wastewater analysis, Biological treatment, Electro-chemical treatment of contaminated waters & industrial wastewaters.
Advanced instrumentation Lab	BOD Analyser	Determination of BOD in various wastewater and other water sources.
	Digital Micro-Weigh Balance	Measure the quantity of various chemicals
	UV-VIS Spectrophotometer	Analysis of various parameters at different wavelength.
	High Performance Liquid Chromatography	Pesticide forensics- Organic compounds, Phenolic compounds



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	Inductively Coupled Plasma emission spectrometer	Detection of heavy metals in water samples.
	Venturi Mini Gas chromatograph	Forensic analyses of organic compound and gaseous samples.
	Ion Analyzer	Analysis of ions in water and wastewater.
	Automatic titrator	Titration without adding any buffer solution and indicators.
	Tintometer Calorimeter Model	To measure the color of water and wastewater.

8. Industrial and Production Engineering

Industrial and Production Engineering Department came into existence in the year 1980 under the umbrella of JSS Mahavidyapeeta. It became grant-in-aid department in the year 1983. Ever since its inception, the department has grown from strength to strength over the years in terms of intake of students. The program was started in 1980. The department has an intake of over 60 students. The department has a highly qualified, dedicated faculty team. The department has very good infrastructure facilities. The department has highly sophisticated laboratories Viz. CAD/ CAM laboratory, Software Applications laboratory, Metrology laboratory, Industrial Engineering laboratory cater to carry out academic and research activities. Till date, the department has produced 10 PhDs and 9 research scholars



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are pursuing Ph.D. The department has been accredited three times by the National Board of Accreditation (NBA). The department has produced distinguished alumni over the years who are holding top positions in organizations and have brought laurel to the institution. The students' placement record is excellent over the years. Students have placed in esteemed organizations Viz. Mercedes Benz, Toyota, Robert Bosch, TVS, RR Donnelley, Schneider Electric, TCS, and Accenture etc. Department is constantly encouraging students to attend internship programs in reputed companies and to participate in extracurricular activities as well. Students are also encouraged to do innovative projects by the department. Some of the projects carried out by the students like PACE have received international acclaim and won prizes to the department.

Facilities available:

1. Metrology Laboratory

The Metrology Laboratory is equipped with Profile Projector, Talyrond, Autocollimator, Tool Makers, Microscope, Dial Micrometer, Optical Flats, Levelling Press, Gear Tooth Micrometer, Spline Micrometer, Deep Hole Dial Depth Gauge, Dial Micrometer, V-Anvil Micrometer, Magnetic Check Profile Projector, Vernier Calipers, Dial Calipers, Digital Calipers

2. CAD/CAM & CIM Laboratory

The CAD/CAM labs are equipped with 75 computers and Solid Edge, Synchronous technology, UGS NX10, ANSYS 11, CNC EXSL Simulation software, Matlab, WinQSB, Proplanner, Minitab and SPSS software

3. Industrial Engineering Laboratory

The Industrial Engineering Lab is equipped with a Modern Tread Mill and Ergometer with Proplanner & Workstudy Professional software.

4. Centralized Labs



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Machine Shop, Workshops, Mechanical Lab, Computer Lab, Material testing labs.

9. Information science and Engineering.

The Department of Information Science & Engineering was established in the year 2000 with an intake of 60 students. The department offers two undergraduate program (B.E in Information Science and Engineering, B.E in Computer Science & Business Systems) and two postgraduate programs (M.Tech in Software Engineering, M.Tech in Data Science). The department has highly qualified faculty members who have rich experience in the area of Data Science, Machine Learning and Computational Intelligence. The faculty members have associated with various reputed International Universities like Harvard University, USA, Nanyang Technological University, Singapore, Korean University, Seoul, University of Mannheim, Germany, Georgia University, USA, St. Petersburg Electrotechnical University, Russia, University of Genova, Italy, Helsinki University of Technology, Finland, Bilkent University, Turkey and many more. Faculty members of the department have produced more than 200 research articles in the reputed Journals and Conference proceedings. The published papers have high citation index.

The department regularly conducts workshops, seminars, symposiums, and faculty development programme to keep update with emerging technologies. The department is housed with high end computing facilities like GPU machines, High End Internet Facilities, wifi facilities, access to reputed journals like IEEE, Springer, Elsevier and many more. The students of the department have a good placement record (Around 98% placement during 2016) with reputed companies like Google, Microsoft, Intuit, Flipkart, Adobe and many more.

Alumni of the department pursue their higher studies within the country as well as abroad and some of the Alumni are successful entrepreneurs.



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Facilities available:

Two software laboratories are available to students to carry out core computing exercises. Each of the labs is equipped with 45 computers. All systems are dual bootable. Students are encouraged to work on open source software.

- One laboratory is available to students to have hands-on experience on hardware exercises. The lab is equipped with trainer kits to verify hardware logic.

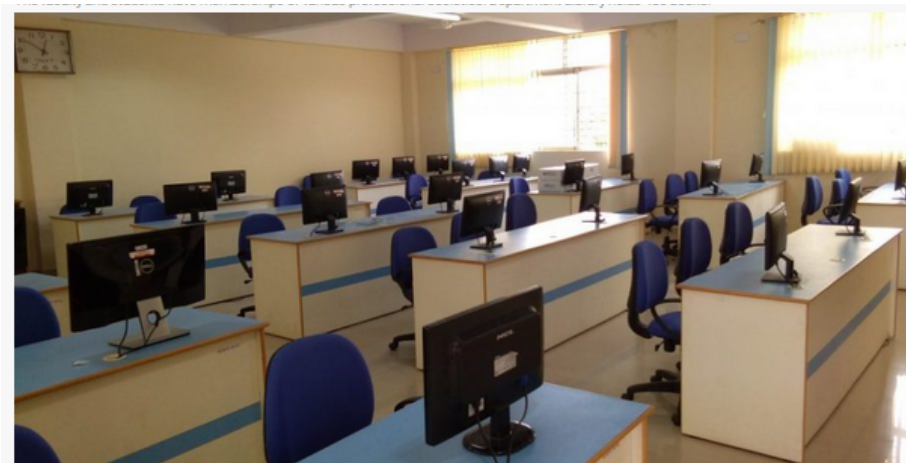


Fig 9: Software Laboratory

- Department of Information Science & Engineering has procured PARAM Shavak Supercomputer from CDAC, Pune, to establish a centralized facility in the domain of Data Science and Deep Learning. The PARAM Shavak houses two high speed NVIDIA GPU cards which is meant for heavy data/compute intense applications. This is going to serve as the Center of Excellence (COE) to cater to the Research needs of various Engineering disciplines. This facility is created under TEQIP phase III grants.
- High End Data Science and Machine Learning Laboratory sponsored by Microsoft India University Relation. A few Raspberry Pi kits are being used and under grad students who



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passed out this year have successfully completed about 5 projects. A working model of a robot implemented in the lab has secured the third prize in a conference recently.

- One laboratory caters to students' desire for app development. Initially the lab was setup with assistance from Nokia and now caters to general app development. Students from our department have recently developed an app for the safety of women in buses and won the first prize in the state.
- Department has an exclusive laboratory for PG students. It has 15 computers with high resolution monitors. The lab is also available to research scholars who have registered with the department faculty for their Ph.D. The laboratory has been successfully used by them and a good number of papers have been published in refereed journals.
- Apart from Laboratory infrastructure, students have WI-FI access to internet.

10. Instrumentation Technology and Engineering

The Department of Instrumentation Technology was established in the year 1978. The department has the state of the art facilities to cater to the needs of undergraduate, post graduate and research programs. The Department has well experienced and dedicated faculty with four doctorates, six pursuing their Ph.D and three with M.Tech. The Department has well equipped laboratories such as Electronic Circuits, Instrumentation, Process Control, Microcontrollers, VHDL, ARM processor, DSP and provides good computing facilities to impart quality technical education. The department has well-focused research centre concentrating on recent advancements in the area of Image processing, Real time Signal Processing, Speech and Biomedical Signal Processing, Biosensors and Power Converters. The Department library is enriched with a good number of books relevant to the program. Campus placement for students is excellent. Students have excelled in their academics and are placed in reputed companies. The department is proud to have distinguished alumni, who excelled in their career with outstanding performance at the global level.



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The Department has well equipped laboratories such as Electronic Circuits, Instrumentation, Process Control, Microcontrollers, VHDL, ARM processor, DSP and provides good computing facilities to impart quality technical education. The Department has well experienced and dedicated faculty members specialized in fields related to Electronics, Instrumentation and control, Signal and Image processing. The Department library is enriched with a good number of books relevant to the programme.

The students are encouraged to pursue real time and research projects in various government organizations and Industries. The graduates of Electronics & Instrumentation Engineering have excellent job opportunities in Process industries, Health care and Software companies etc.

Campus placement for Electronics and Instrumentation students is excellent. Students have excelled in their academics and are placed in reputed companies.

The faculty and students have memberships of various professional societies. Department Library holds 430 books.

11. Mathematics

The Department of Mathematics has been an integral part of the college from the very beginning in 1963. The Department envisions students graduating from SJCE to be fully capable of applying Mathematical skills to tackle Engineering and Societal problems and thus be of invaluable help to the Society and the Nation. The Department plans to realize its vision by planning the courses in consultation with Engineering departments and taking their requirements into account. The teaching by the faculty is oriented towards making students understand the use of Mathematics in their chosen field by taking specific examples from those disciplines.



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Facilities : Department holds a library and caters to the needs of the students and provides prescribed text book. The department has facility to access digital library Books/ Journals/Magazine/ Publications. Wi-Fi facilities are available to access online materials.

12. Mechanical Engineering

The Department of Mechanical Engineering was established in the year 1963. The department offers one Under graduate and two post graduate programs. B.E. in Mechanical Engineering has an intake of 120 students, M.Tech in Maintenance Engineering and M.Tech in Engineering Management each have an intake of 18 students. The Department offers research programmes leading to M.Sc.(Engg) and Ph.D. The Department has qualified and experienced faculty, 12 with doctoral degrees. Faculty has published more than 250 research articles in the reputed Journals and Conference proceedings. It has collaboration with leading organizations like Partners for the Advancement of Collaborative Engineering Education (PACE), Mercedes Benz and Automotive Axles Pvt. Ltd. Students are encouraged to interact with these organizations for knowledge up-gradation in advanced areas of mechanical engineering. The students of the department have a good placement record.

13. Physics

The Department was established along with the Institution in the year 1963. The academic activities of the department are teaching, research and conducting workshops, seminars, guest lectures.... form the resource full persons from other research centers. The department of Physics has been recognized as a research center of Visvesvaraya Technological University (VTU) – Belagavi & J.S.S. Science & Technology University (JSS&T) – Mysuru.

The Department imparts education in Basic Science both in theory and through experiments. The objective is to create the basic firm foundation required by the engineers to plan for appropriate applications of the materials, objects and the material science studied under the science education which in turn provides them the tool for the choice of



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the proper plan for the right application. The Department is located in the Administrative block of the college. The Department cum Lab is in the first floor of the AB-block ; and the lab is spreading over an area of 40×70 ft., where nearly 40 students can perform experiments at a time. Now an additional lab with area 20×20 ft., is also in use. The Department conducts ‘Engineering Physics’ (PH110, PH120 & PH210) and ‘Engineering Physics Lab’ (PH12L & PH22L) for the first year students of all branches of Engineering, which provides the basic foundations about the principles and conceptual ideas of Science behind the Engineering & Technology. The Department offers electives such as ‘Fiber Optic Communication Systems’ (PH510) for the 5th semester B.E. students of all branches except Electronics & Communication Engineering and & ‘Elements of Nano Technology’ (PH610) , ‘Solid State Electronics Devices’ (PH620) for the 6th semester students of all branches.

Facilities available:

The Department also provides certain major equipment’s and advanced software which are useful for research activities, the facilities are as follows:

LIST OF MAJOR EQUIPMENTS:

Mossbauer Spectrometer system (4096 channels). Type – MC 1003.

Multi frequency ultrasonic interferometer (0.03% accuracy) with sample cells and the data acquisition system and plotter.

Setup for the measurement of B-H Curve and susceptibility (Electronic version).

SOFTWARE: SOFTWARE NAME: Material Explorer (Single User License).

SOFTWARE DETAILS: Material Explorer is a multi-purpose molecular dynamics software package designed to work with system that conventional MD software cannot handle, for example ceramics and semi-conductors. Materials Explore; has a potential Library that includes potential functions and parameters for a wide range of atom-to-atom interactions



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covering the spectrum of Molecular Dynamics, and the maker of this software is Fujitsu. Organics, Polymers, Biomolecules, Metals, Ceramics, Semiconductors, etc., can be tested for their periodicity and stack alignment with respect to their crystal structure.

The following are the phases which can be probed using this software and the pertaining properties of the materials which can be studied for the given sample:

Crystals, Amorphous solids, Liquids and Gases (Periodic boundaries).

Phase transactions, Expansion, Defects, Compressibility, Tensile strength, etc.

14. Polymer Science and Technology

Department of Polymer Science and Technology (PST) was established in the year 1987-88 and is one of its kind in the state of Karnataka. PST offers B.E., M.Tech., M.Sc. (Engg.) by research and Ph.D. programs. PST is active in R&D and has produced more than 25 Ph.Ds and more than 350 research papers in reputed International Journals. PST has strong alumni rapport, good industry-institute interactions and offers a wealth of intellectual opportunities, both inside & outside the classroom through outcome based education. Department supports all round activities through Polymer Engineering Students' Association (PESA).

Department has collaborative research activities with Universities in South Korea, Brazil & USA. PST has signed MoUs with North Carolina University, Chonbuk National University & Indian Rubber Institute. PST has completed R&D sponsored projects from UGC, CSIR, DST, DRDO, AICTE & VGST. PST conducts triennial national conference 'Polycon' since 1999 and is nodal point for Indian Rubber Institute, Karnataka Branch and Indian Plastics Institute Mysuru Branch.

PST alumni are working at SABIC (GE), Dupont, Reliance, UTC Aerospace, 3M, Akzonobel, GM, Volvo, Dow, Bosch, Suzlon, Tyco Electronics, Bostik, CEAT, Appollo & JK TYRES, IRMRA, Mypol, Exxon Mobil, Molecular Connections, Schenieder Electric, TVS groups, Sundaram



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Polymers, Brakes India Pvt. Ltd, Steer Engineering, Under Writers Lab, Lanxess, TESCO, LM glass fibers, Toyoda, Mahindra & Mahindra, KPIT Cumins, Indo US MIM, Konspec Ltd., NAL, HAL & others.

Facilities available:

Chemical Engineering Lab, Advanced Material Characterization Lab, Plastics Processing Technology Lab, Rubber Processing Technology Lab, CAD Lab, Thermal and Rheology Lab, Physical Chemistry Lab, Testing Lab, Synthesis Lab and Research Labs are available for laboratory activities. State-of-the-art Lab facility for Thermo-analytical techniques is also available with Differential Scanning Calorimeter (DSC), Thermo Gravimetric Analyzer (TGA), Dynamic Mechanical Analyzer (DMA), Heat Distortion Temp (HDT) & Vicat Softening Temp (VST).

Analytical tools namely IR Spectrophotometer (FTIR) with ATR attachment, X-Ray Diffractometer (XRD), Scanning Electron Microscope (SEM) with EDS attachment, Polarizing Optical Microscope and tools for Testing including Universal Testing Machine (UTM), LCR meter and Flammability tester are available in the department.

Processing equipments including Haake Rheomix and Twin Screw Extruder, Injection, Blow and Compression Molding machines are also available.

7. Information regarding NBA accreditation: The National Board of Accreditation (NBA), India was initially established by AICTE (All India Council of Technical Education) under section 10(u) of AICTE act, in the year 1994, for periodic evaluations of technical institutions & programs basis according to specified norms and standards as recommended by AICTE council. UG and PG programmes are NBA accredited.



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8. GATE qualified students data :

The Graduate Aptitude Test in Engineering (GATE) is an examination that primarily tests the comprehensive understanding of various undergraduate subjects in engineering and science. GATE is conducted jointly by the Indian Institute of Science and seven Indian Institutes of Technologies at Roorkee, Delhi, Guwahati, Kanpur, Kharagpur, Chennai (Madras) and Mumbai (Bombay) on behalf of the National Coordination Board \u2013 GATE, Department of Higher Education, Ministry of Human Resources Development (MHRD), Government of India.

The GATE score of a candidate reflects the relative performance level of a candidate. The score is used for admissions to various post-graduate education programs (e.g. Master of Engineering, Master of Technology, Doctor of Philosophy) in Indian higher education institutes, with financial assistance provided by MHRD and other government agencies. Recently, GATE scores are also being used by several Indian public sector undertakings for recruiting graduate engineers in entry-level positions. It is one of the most competitive examinations in India. GATE is also recognized by various institutes outside India, such as Nanyang Technological University in Singapore.

GATE online coaching was provided for 262 students from various branches. The coaching was conducted by GATE Forum. Most of the students get qualified in GATE exams every year.

9. Training Programmes held for students

The competition for jobs in multinational companies and various technical positions have made soft-skills a prerequisite. The Engineering students aspiring to become professionals not only need academic and technical skills but also Soft-skills to meet the goals of the organization. Hence various training programmes were held in the college for students.

10. Training programmes held for teaching & non-teaching staff



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With rapidly changing technological scenario in the context of ever-increasing global connectivity as well as competitiveness in modern times, the role of technical programmes has become very significant and challenging.

The training/symposia/workshops/Expert Lectures/ Invited Talks/Hands on Training are held for teaching and non-teaching staff by eminent resource persons every year.

11. R&D achievements

Some R&D achievements are enlisted below with the amount sanctioned.

Research Projects

Co-Investigator, Prepared research proposal on “Novel Hybrid Treatment Process for Treatment of Textile Wastewaters” and submitted to JSS Science & Technology University for research funding from Ministry of Textiles Cost proposed: Rs. 269,34,625.00.

Principal Investigator, (Dr. PuspaTuppad (Co-PI), Rohini (Collaborator – CDD)), “Biological nutrient removal from wastewater in modified DEWATS system for reduced land and energy footprint”, approved by Department and Science and Technology under Water Technology Initiative. DST funding: Rs. 35 lakhs; Collaborator: Rs. 12 lakhs.

Principal Investigator (Dr. H. S. Ramesh (CO-PI) for the research project on “River Water Quality Modelling Studies to Mitigate the Pollution Load from Coffee Processing Units around Cauvery River Basin” sanctioned by Ministry of Environment and Forests, Government of India, New Delhi. Total cost of the project is Rs. 18,54,720.00 (Rupees Eighteen Lakhs Fifty Four Thousand Seven Hundred Twenty Only).

Principal Investigator for the research project “Advanced Treatment Techniques for Fluoride, Hardness and Nitrate Removal” (Sanctioned on 01.01.2010; VTU/Aca/2009-10/A-9/11419), by Visvesvaraya Technological University, Karnataka. Total Cost of the research project is Rs. 11,81,000.00 (Rupees Eleven Lakhs Eighty One Thousand Only).



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European Society for Evolutionary Biology (ESEB), Department of Biotechnology, poster contest on "Evolutionary Biology in the 21st Century" for under graduate students and presentation on "Origin of Life and its Continuity" for high school students of Mysore City) – 2013-14.

TEQIP funding for M.Tech Project (Ranjini T. H.) on "Isolation and identification of Micro-Organisms for efficient Removal of Nitrate from Groundwater".

KSCST students projects "Removal of Nitrate from Ground Water" Karnataka State Council for Science and Technology Student Projects Programme (SPP – 30th Series).

KSCST students projects "Evaluation of Chitosan in different forms for Removal of Nitrate, Fluoride and Bacteriological Contaminants from Groundwater", 2013, Karnataka State Council for Science and Technology Student Projects Programme.

12. Some of the major achievements of students are:

First Prize - Collaborative Innovative Challenge (CIC) competition, Torino, Italy, PACE Global Annual Forum

Adarsh Ramesh, Sushanth Bhushan Varun J, Gaurav Kashyap and Vishal V. Shekhar guided by Dr. C.R. Venugopal, Prof. V. Basavaraj and mentored by Dr. V. Ramesh worked on the project "Connected, Automated and Resourceful Vehicular System (CARVS)" which won the First prize in the Collaborative Innovative Challenge (CIC) competition held at Politecnico di Torino campus Torino, Italy on 31st July 2014.

In addition, 5 projects and 5 technical paper presentations were presented by SJCE students in the Global Forum. 66 globally recognized PACE (Partners for the



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Advancement of Collaborative Engineering Education) institutions from all around the world, participated in the forum, and five of them including SJCE were from India.

A total of 25 students participated in the Siemens NX Basic Certification Training program in the forum and Vishal V. Shekar and Lakshmi Narasimha of E & C branch were awarded the “Basic NX trainer certificates”.

Sri Jayachamarajendra College of Engineering (SJCE) was awarded the PACE SILVER CERTIFICATION for their contribution in Research and Development in PACE programmes.

Further, the students of SJCE who participated as TEAM 3 with other Universities namely PESIT, National Institute of Design, PSG Coimbatore and Prairie University, USA fabricated the Portable Assisted Mobility Device (PAMD) product - “STAG”- which is a 2 wheeler vehicle with the provision of portability. SJCE students Varun S., Lakshmi Narasimha, Chethan, Aditya Donthi participated in this project. This PAMD project was sponsored fully by General Motors and PACE consortium.

Best Innovative Technical Project Award

SJCE students bagged Best Innovative Technical Project Award from Govt. of Karnataka – State Project Facilitation unit, Bengaluru under TEQIP Phase II program for designing a device for Differently Abled (Vision Impaired) people titled “Blind Assistance System Using Ultrasound & GPS”

A blind assistance system can guide a blind in all circumstances irrespective of the place. The main aim was to make the device to a common man affordable.

There are about 8 billion blinds in the world who always expect a helping hand. Though we are in the 21st century, there isn't been any efficient solution to help the blind. Hence this is an important issue to be considered. Gulping this energy capsule SJCE students have come up with a dream device which is the only “Intelligent Cane” available that could guide the blind in all aspects. The main features that makes this device ahead of all other existing devices is that, it not only senses the



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obstacle but also guides the blind by its GPS navigation and accepts vocal commands. This is so user friendly that the blind would feel as if always accompanied by a person to guide him.

Mr. Jayanth Prasad, Mr. K.S., Jeevan, Mr. Uroosa Najmussahar & Ms. Sunaina J. Raju from B.E Instrumentation Technology were presented with this award. They were ably guided by Prof. S. Rathnakara, Associate Professor of the same Department.

Discovery of Main Belt Asteroid MAUR397

Mr. Ronaldo Laishram, a student of first semester BE Computer Science, has made the preliminary discovery of Main Belt Asteroid MAUR397, as part of All India Asteroid Search Campaign (AIASC) 2014. He made this discovery along with his team partners for the Team 'Salonivia Conquerors'. SPACE CEO Mr. Amit Verma has sent a Letter of appreciation to the College Principal appreciating the student's achievement.

“This marks a rare achievement for SPACE and its associated educational institutes, as asteroids are hard to search for and needs dedication and continuous efforts. The opportunity provided by SPACE along with regular guidance and Mr. Ronaldo's sincere hard work has been instrumental in this achievement. The diligent effort of Ronaldo towards this campaign is praiseworthy, Mr. Amit Verma appreciated in his official letter.”

The discoveries were made as part of the program 'All Indian Asteroid Search Campaign' (AIASC) conducted jointly between April and August this year by Science Popularization Association of Communicators (SPACE) and International Astronomical Search Collaboration (IASC).

13. Conferences held: Every year different departments organise National and International Conferences.



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14. Consultancy projects in- hand

The consultancy project in hand is the Kali River Water Quality Study with a sanctioned amount of Rs. 3,96,750.00 (Rupees Three Lakh Ninety Six Thousand Seven Hundred Fifty Only) from the West Coast Paper Mills Ltd., Dandeli.

15. Start-ups and innovations

Workshops and Entrepreneurship motivation talks are conducted by the Start-up and innovation cell to sensitize students of SJCE to take up the entrepreneurial ventures and to help the students to gain the firsthand information about idea generation and converting that idea into realizable business model.

Start-ups initiated by Students of SJCE, Mysuru are :

- Mr. Ratheesh and Mr. Anand B of I&PE Alumni have started a company called “VIVRT”. Company is into the design of recreational vehicle called “SKATOCROSS”. The prototype vehicle developed by the students during the Final Year project work is converted into a full-fledged recreational vehicle. The Govt. of Goa has recognized the need for the vehicles and has funded Rs. 50 Lakh to commercialize the vehicle in Goa
- Mr. Abhishek Dambal alumni of I&PE has started a smart bicycle sharing Company named “YAANA” Pvt. Ltd. YAANA bicycle sharing is already implemented in GKVK Agricultural University Campus, Bangalore.

16. Linkage with industry

Sri Jayachamarajendra College of Engineering has a very good interaction with various industries. The interaction with industries has led to research collaboration, setting up of laboratories for students internship and training programs. The list of industry interaction with various departments of SJCE is as below:



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Department of E & C Engineering

- Philips India Limited

Department of CS Engineering

- IBM India Private Limited

Department of Civil Engineering

- The Builders Association of India, Mysuru

Department of Construction Technology & Management

- Arizona State University, Tempe, Arizona, USA (MoU)
- Asian Institute of Technology, Bangkok, Thailand (MoU)
- Brigade Enterprises Limited
- Shobha Developers Private Limited
- URC Construction Private Limited
- BAI, Mysore Chapter
- Nithyanadha Associates
- Association of Consulting Civil Engineers
- Pramur Construction Pvt. Ltd.
- Ready Mixed Concrete
- Ultra Tech Cement Company.



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-
- Builders association of India
 - Bhamys Construction Pvt.Ltd
 - P.G Shetty construction Technology Pvt. Ltd
 - EP construction
 - Coastal project Ltd.
 - Talrak Construction Chemicals

Department of Mechanical Engineering

- Toyota Kirloskar Motor Limited (MoU)
- PACE – General Motors (MoU)
- Automotive Axles Limited (MoU)
- Mercedes-Benz India (MoU)

Department of E & E Engineering

- Schneider Electric (MoU)

Department of Environmental Engineering

- Hindustan Unilever Limited, Mysuru
- J K Tyres, Mysuru.
- Triton Valves Ltd., Mysuru.
- Mysore Milk Union Ltd. – KMF, Mysuru.



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-
- CFTRI, Mysuru.
 - Kluber Lubricants Pvt. Ltd., Mysuru.
 - KSIC, Mysuru.
 - Nestle India Ltd., Nanjangud.
 - Rane Madras, Mysuru.
 - Plansee High Performance Pvt. Ltd.
 - Pepsico India Holdings Pvt. Ltd.
 - X-treme, Bangalore Pvt., Ltd.

Department of Polymer Science and Technology

- Indian Rubber Institute (MoU)
- Toyoda Gosei Co. Ltd (MoU)
- J K Tires and Industries, Mysore
- Mysore Polymers, Mysore
- Triton Valves, Mysore
- Indo-US MIM Industries, Hosakote
- Brakes India Ltd. (TVS group)
- GLS Polymers Ltd., Bangalore
- SABIC Innovative Plastics India Pvt Ltd. (previously GE Global Research)



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Center), Bangalore

- Exxon Mobil, Bangalore
- Kurlon, Bangalore
- Toyota Kirloskar, Bangalore
- Akzo Noble, Hosakote

Department of Bio-Technology

- Bacardi Pvt. Ltd. , Mysore
- Agilent Technologies Ltd, Bangalore
- Lab Land Biotech Pvt. Ltd., Mysore
- Mu Rho Pye Scientific Co, Mysore
- Supreme Pharmaceuticals Pvt. Ltd. Mysore
- Defence Food Research Lab, Mysore
- Central Food Technological Research Institute, Mysore
- Central Sericultural Research and Training Institute
- Anthropological Survey of India, Mysore
- JSS Medical College, Mysore
- DOS in Botany, Manasagangothri
- Prosetta confermatics Pvt. Ltd, Mysore.



- Habib Industries, Srirangpatana, Mandya
- Zeus Biotech, Mysore
- Nestle India, Nanjangud
- Antham Biosciences, Bangalore
- Butt Biotech, Bangalore
- Biocon India Ltd, Bangalore
- Cipla pharmaceuticals, Bangalore

17. Collaborative activities

Industry-Institute Interaction

(Activities include: Internships; Industry expert lectures; Placement Activities & Hospitality; Industry Visits, etc.)

SI No	Name of Coordinator	Student details	Place	Date
	Dr. K. Prakash & Mr. H. M. Mahendrakumar, Dept of CivilEngg.	3rd Sem Students	Wood cutting & Plaining Industry, Marble & Granite show rooms etc., Mysore	17.10.2017
	Dr. K. Prakash, Dr. M. P. Pradeep, Ms. Roopanjali S. Dept. of Civil Engg.	5th Sem students - 73	Torekadanahalli water Treatment plant near Malavalli & Mini Hydrel Project and Madhava Mantri Annikut near Talakadu	17.10.2017



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Dr. K. Prakash & Mr. H. M. Mahendrakumar Dept of Civil	8th Sem student -12	Varahi Sharavathi Hydro Electric Power station and Linganamakki Power Generation Station	20.03.2018 to 21.03.2018
H.G Vivek Prasad & Pushpa K Dept of CTM	6th Sem 55	Varahi underground Power Plant and New Mangalore Port.	15.02.2018 To 16.02.2018
Dr. Rudraswamy S B Dept of E&C	4th Sem E&C 42	Indian Institute of Science, Bangalore on the occasion of institute open day	10.03.2018
Dr. Gayathri H M	E&C 10	Samukshita -2018 at Bangalore	02.03.2018
Dr. Ravishankar B.S & Mrs Deepa Dept of E&C	6th Sem E&E 70	Division (CHESCOM) at Jyothinagar, Mysuru	31.01.2018
Dr. S.K. Prasad & Mr. H. M. Mahendrakumar Dept of Civil	2nd year M.tech -14	Visit to Idduki Dam site, Kerala	16.04.2018 to 19.4.2018
Mr. Chandrashekara Dept of E&CE	4 th Sem students -43	Visit to NOKIA labs, Bangalore	25.09.2018



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Dr. M P Pradeep Mrs. Roopanjali Dept of Civil Engg	5th Sem students-	Torekadanahalli water Treatment plant near Malavalli and Mini hydel project near Talakadu	12.10.2018
Dr. A D srinivasan Dept of E&EE	M.Tech students -17	MW solar power plant at Devanuru village, Nanjunagudu	19.01.2019
Mr. Karibasavaraja Bindhu S Abhijith Dept of Mech	4 th sem students -43	INS Kadamba, karwar	21.02.2019
Dr. K Prakash Dept of Civil	4 th Sem students -132	collaboration with builders associating of India, Mysore	20.02.2019
Ms. Pallavi K B Dept of CTM	5 th Sem student	Participate in one week internship at JSS ATE, Bangalore	Jan 2019
2 faculties E&CE & E&I	6 th Sem students	To attend BOSCH –Samukshitha -2019 on occasion of international Women’s day	05.03.2019
E&EE	Final year students	Visit ot TVS Motor Company, Kadakola and Nestle factory Nanjungud	09.03.2019
E&I	6th Sem students	MRPL, Mangaluru	14.03.2019



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Dr. U B Mahadevaswamy	50 students of 4th Sem students	L&T Mysore	15,20,22 Feb 2019
IS&E	Dr. S.K Padma	TCS Tech Bytes programme	08.03.2019
Ms. Supreetha	(10 Female students)	Cisco: Women in Technology	14.03.2019
Mr. Arun Y C.	8th Semester students	Industries visit at Mangalore	23.03.2019 to 25.03.2019

18. Curricular achievement & Co-curricular achievement

The curricular and co-curricular achievements are listed below.

Sports



Fig 10: Mysuru city inter-collegiate hockey tournament 2018 winners



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Department of Physical Education is equipped with the following facilities:

- Gymnasium
- Table Tennis Hall
- Room for Chess
- Football / Cricket Ground
- Basketball Court
- Volleyball Court
- Ball badminton Court
- Throwball Court
- Kho Kho Court
- Kabaddi Court
- Tennis Court
- Fitness Centre

Notable Players

Name	Credits
Javagal Srinath	Cricketer – Team India
Prahlad Srinath	Tennis Player – Team India



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Budding Sport Stars

Name	Credits
Nityanand	Member of Karnataka State Cricket Team (under-22 side)
Lakshman R	Member of Karnataka State Cricket Team (under-19 side)
Sowmya Urs A M	Represented VTU Volley Ball Team.
Nilasha H A	Represented Mysore District in Roller Skating at various tournaments.
Raghav Anil Kumar	Represented college team in Gymnastics and represented VTU team in All India Inter university Competition.
Navnik Shivadas	Represented Karnataka State Team in All India Traditional Karate- Do Kubudo Championship-2011.
N M Praveen Kumar	Represented Karnataka State Team in All India Traditional Karate- Do Kubudo Championship-2011.
Shiva Prasad B P	Represented College in Best Physique Team at city and intercollegiate tournament.
Neema Arjun Bathija	Represented College and VTU Tennis Team for various tournaments.



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8. ADMINISTRATIVE ACTIVITIES TO MARK THE GOLDEN JUBILEE YEAR

14 June 2013	<p>Visit of Hon. Chief Minister of Uttar Pradesh Sri Akhilesh Yadav – Alumni of SJCE.</p> <p>Sri Akhilesh Yadav was a student of SJCE from 1990 to 1994.</p>
1 August 2013	<p>Freshers' Day 2013</p> <p>Dr. Venkat Rao, Honorable Vice Chancellor, National Law School of India University, Bengaluru was the Chief Guest.</p>
11 September 2013	<p>98th Jayanthi Celebrations of His Holiness Jagadguru Dr. Sri Shivarathri Rajendra Mahaswamigalavaru</p> <p>Sri L. Revanasiddaiah, Former Director General of Police and President, JSS Prasad Nilayagala Hiriya Vidyarthigala Sangha, Sri M.S. Shashikiran, President and Chief Director, Hical Technologies Pvt. Ltd, Bengaluru were the Chief Guests. Dr. Veereshananda Saraswathi Swamigalavaru, President, Ramakrishna – Vivekananda Ashrama, Tumkur gave the blessings.</p>



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8 & 9 February 2014	Shabd 14 – Annual Literary Fest
22 March 2014	<p>Inauguration of Golden Jubilee Bhavan – Dr. Sam Pitroda, Advisor to the Prime Minister of India on Public Information Infrastructure and Innovations and the Chairman of National Innovation Council.</p> <p>His Holiness Sri Deshikendra Mahaswamiji blessed the occasion. Prof. H.U. Talwar, Director, Dept. of Technical Education, Govt. of Karnataka; Sri B.N. Betkerur, Executive Secretary, JSS Mahavidyapeetha and Prof. M.H. Dhananjaya, Director (Technical) JSS Mahavidyapeetha were the Chief Guests.</p>
5, 6 & 7 April 2014	<p>JAYCIANA 14</p> <p>Important Events:</p> <ul style="list-style-type: none"> - Dance Competition: Judged by Sri Vijay Raghavendra, Sandalwood Actor - Dance performance by Abhinava Dance Company on the theme Sambhrama. - Musical concert by renowned singer Sri Shankar Mahadevan and his group - Miss Jayciana 2014 contest – Judge of the competition was fashion guru Sri Prasad Bidappa - Performance by international group Akcent, known for its English and Spanish chartbusters
1 August 2014	<p>Freshers' Day 2014</p> <p>Justice Nagmohan Das was the Chief Guest</p>
16 August 2014	<p>K.N. Subramaniam Memorial Endowment Lecture on "Ensuring Earthquake Safety in India – Role of Engineers"</p>



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15 September 2014	99th Jayanthi Celebrations of H.H Dr. Sri Shivarathri Rajendra Mahaswamigalu Prof. Vasanth Kumar, Professor, Maharani Arts College, Mysuru gave the respectful words about His Holiness Swamiji. Dr. Vasanthi Reena Williams, Dean (PG Center), Vidya Vikas, Mysuru was the Chief Guest. Swami Maheshatmanandaji, Sri Ramakrishna Ashrama, Mysuru gave the blessings.
31 October 2014	National Unity Day – Birth Anniversary of Sri Sardar Vallabhai Patel Dr. R. Balasubramaniam, Founder, Swami Vivekananda Youth Movement, Executive Director GRAAM, Vivekananda Institute for Leadership Development (V-LEAD) delivered a talk on Sardar Vallabhai Patel's contribution to India's unity, safety and security.
2 November 2014	5 th Graduation Day Graduation Day address by Padmashree Dr. H.C. Visvesvaraya, former Vice Chancellor, University of Roorkee
11 November 2014	National Education Day - Birth anniversary of Sri Maulana Abul Kalam Azad Prof. K. Chidananda Gowda, former Vice Chancellor, Kuvempu University was the speaker on the occasion.

1.

CO CURRICULAR ACTIVITIES

14 March 2014	Cyberia 14 – Tech fest organized by IEEE SJCE Dr. M K Radhakrishnan, SRC Vice-Chair, IEEE-EDS Region 10 was the Chief Guest and Mr. Harish, Director, IEEE India Office Mysuru, was the Guest of Honour.
11, 12 April 2014	Technologix organized by Computer Society of India – SJCE branch Mrs. Anupama, CEO Jiving Tech, Mysuru was the Chief Guest



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18 th & 19 th October 2014	FOSS Camp SJCE Organized by Dept. of Computer Science & Engineering Prof. Narahari, IISc. Bengaluru was the Chief Guest
31 st Oct. & 1 st Nov 2014	Infotsav 2014 – Dept. of Master of Computer Application Dr. K Chidananda Gowda, former Vice Chancellor, Kuvempu University, was the Chief Guest

2.

MOU Signed

2 nd September 2013	With Arizona state university for best practices in Construction Technology Management.
15 th December 2013	With IBM – IBM Smart Master
15 February 2014	With TCS
19 September 2014	With IIT, Hyderabad for Academic Collaboration
18 October 2014	With (NYSE: IBM) to train and educate the students and faculty on industry oriented IBM Big Data and Analytics capabilities.

1.

ALUMNI ASSOCIATION ACTIVITIES

21 st December 2013	SJCE Golden Jubilee Global Alumni Meet Sri B.N. Jayeshankar, Managing Director, Adarsh Developers, Sri Javagal Srinath, International Cricket Referee and Sri Srinivasan Nagarajan, Vice President and Head, Infosys were the Chief Guests.
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	26th July 2014	1988 – 1992 batch Alumni meet
Technical Talk Arranged		
	3rd September 2013	“A Journey towards Entrepreneurship” by Mr. Sanjeeth Shetty (SJCE Alumni) and Mr. Narayan Soham Groups, Bengaluru.
	24th September 2013	Layout optimization in Process Technology by Mr. Abhdul Hanan Khan, MG Agrotech, Srirangapatna.
	27th September 2013	“Data Analytics” by Ms. Shibani Mohapatra, Assistant General Manger, TCS, Bengaluru
	28th September 2013	“How to choose your career” by Mr. Kiran Shankar, Managing Director and Head, South Asia Operations, RR Donnelay Pvt. Ltd., Bengaluru.
	15th February 2014,	“Cloud Computing Architecture, Security & its Reliability” by Mr. Mahabalesh, TCS Bengaluru

3.

Special Lectures organized (Funded Under TEQIP II)

Sl No.	Organizing Department	Date	Details
	Information Science & Engineering	11.07.2013	'Recent Trends in clustering Approaches' by Fransisco De A T. De Carvalho, Professor, Center of Informatics, Universidade Federal de Pernambco, Brazil
	Industrial & Production Engineering	25.09.2013	'Layout Optimization in Process Technology' by Abdul Hanan Khan Technical Director, M.K. Agro, Srirangapatna.



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	Industrial & Production Engineering	28.09.2013	'Career to Current Business Climate' by Kiran Shankar, MD, RR Donnelly Pvt. Ltd, Bengaluru
	Biotechnology	06.11.2013	'Opportunities for collaboration in the USA' by Ms. Rachel O' Hara, Vice Counsel, US consulate, Chennai
	Biotechnology	17.02.2014	'Breast cancer its cause, detection and therapy' by Dr. Naoki Yamamoto, Research Professor, Department of Microbiology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, and Dr. Sudha Kumar Das, Assistant Professor, Department of Radiology, JSS Hospital, Mysuru.
	Civil Engineering	17.02.2014 & 18.02.2014	Training on ATENA
	Environmental Engineering	03.03.2014	'Aptitude and IQ development' by Mr. S A Rahim, Director Mathemajik Society, Bengaluru
	Industrial & Production Engineering	19.03.2014	'Aptitude and IQ development through Puzzles for placement' Mr. S.A. Rahim, Director, Mathemajik Society, Bengaluru
	Information Science & Engineering	21.03.2014	'Aptitude and IQ development through Puzzles for placement' Mr. S.A. Rahim, Director, Mathemajik Society, Bengaluru
	Instrumentation Technology	02.04.2014 & 04.04.2014	'Biomedical Signal Processing and instrumentation' by Prof. Ajish K. Abraham
	Biotechnology	04.04.2014	'Mind of Morobes' by Dr. Richard Joseph, Scientist (Retired), CFTRI, Mysuru



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	Biotechnology	09.04.2014	'Health Benefits of Processed water' Mr. Schoof, Scientist, Germany
	Biotechnology	11.04.2014	'Industrial Project Management' by Mr. A. Ramesh
	Biotechnology	24.04.2014	'Challenges Biotech Industries face' by Dr. Bhavanishankar, Consultant for Breweries industries, Mysuru.
	Electronics & Communication	30.05.2014	"Optical Networks" by KVS Sai Ram
	Electronics & Communication	30.05.2014	"Optical Networks" presented by K.V.S.S.S.S. Sairam, Professor and Principal, ECE Dept. in Sient Institute of Technology, Ibrahimpattam R.R. Dt. Hyderabad
	Electronics & Communication	26.09.2014	Information Security cyber forensic and Ethical Hacking as a career advancement tool by Mr. Srinidhi Srinivas, Vice President of Digital Forensic Service and Training , Bengaluru

1.

Finishing Schools organized (Under TEQIP II Initiative)

	06.11.2013 to 23.11.2013	'Practical approach to Computer Networks' Organized by Dr. Anilkumar, Assistant Professor, Dept. of Computer Science and Engineering
	25.11.2013 to 20.12.2013	'Structural Analysis and Design Software E-Tabs' organized by Dr. S. K. Prasad and Dr. S. Raviraj, Professors, Department of Civil Engineering
	07.04.2014 to 12.04.2014	'Environmental Impact Assessment' organized by Dr. B. Manojkumar Professor, and Ms. Savitha Ulavi, Assistant Professor, Dept. of Environmental Engineering.

JSS MAHAVIDYAPEETHA

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SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING



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9. ACHIEVEMENTS OF SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING MYSURU

Dr. Syed Shakeeb ur Rahman - Nominated as the Member of Karnataka State Science and Technology Academy



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Valedictory of Golden Jubilee celebrated on 31st March 2015, His Excellency Dr. APJ Abdul Kalam delivered the Valedictory address

Fig 11: Valedictory of Golden Jubilee

“Creativity is a process through which we can continuously improve ideas and find unique solutions by making gradual alterations and refinements to our works. Innovation and creativity ultimately result in the culture of excellence”.

“Technology is directly benefitting human beings, health, education, safety and other fields. Going by recent studies, we are close to discover a permanent cure for diabetes that is affecting people in large numbers in India”.



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‘Empire of the Mind - Compared to yesterday, there is a major shift in today’s world — irrespective of field. Earlier, natural resources defined power, while knowledge is the power in present days. Policymakers across nations must join hands to combat the menace of terrorism. There is an urgent need for all of us to combine policies, people and ideas to combat terrorism.’

“In 2014, we were close to find a cure for diabetes, using the human embryonic stem cells technologies. Two studies show that enough beta cells can be produced in less than two months to replace beta cells seen in the body. But scientists are confident that within the next two to three years we would have finally found a permanent cure for diabetes. Hence, this is a convergence between two different medical sciences”. ‘In 2014 for the first time ever in the history of mankind, a manmade object landed on a comet. The Rosetta spacecraft finally reached the 67p Churyumov-Gerasimeno comet, its destination, in August after travelling 6.4 billion km after a chase of 10 years, since it was launched by the European Space Agency. Nearly 80% of scientific data is expected to come from Rosetta that reached the comet in August and has been orbiting since then. The third event is related to computer science and neurology. ‘In 2014, computer engineers at IBM and other companies took a leaf out of human brain and designed “neuromorphic” chips that can process information in a manner similar to human brain. This means, that unlike the way today’s computers carry out logical operations but struggle to “integrate vast amounts of data”.

“The new chip with a brain-inspired computer architecture powered by an unprecedented 1 million neurons and 256 million synapses – Trunorth – mimics the brain but at very small scale with 5.4 billion neuron cells and 100 trillion synapses. It only consumes 70mw during real time operation - orders of magnitude less energy than traditional chips”

“Culture of excellence: Excellence in thinking and action is the foundation for any mission. Today’s youth community should stand for culture of excellence. Moreover, excellence is not by accident. It is a process, where an individual or organization or nation continuously strives to better oneself. The performance standards are set by themselves, they work on their



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dreams with focus and prepared to take calculated risks and are not deterred by failures as they have towards their dreams. Then they step up their dreams, as they tend to reach the original targets. They strive to work to their potential, in the process they increase their performance. They are not in competition with anyone else, but themselves. That is the culture of excellence.”

“Go beyond religion, region and nationality”. And take up a collective task of overcoming hatred through policy, products, people and ideas.

These are the extracts of the kind words told by his **Excellency Dr APJ Abdul Kalam** during the **Valedictory of Golden Jubilee Celebrations of SJCE on 31 March 2015**, under the gracious presence of **His Holiness Sri Shivarathri Deshikendra Mahaswamaji**. His Excellency lauded the efforts of SJCE in delivering a robust educational service and for shaping the young minds.

Having remarkably served aspiring young students to pursue technical education for 50 years, SJCE enthusiastically planned its Golden Jubilee Celebrations. The college exhibited its enviable capabilities by organising a plethora of programmes encompassing technical, curricular, co-curricular areas over an year. The alumni proudly organised a Global Alumni meet. Alumni from different organisations interacted with our faculty and students. SJCE started in 1963 with nobility and has blossomed into world renowned organisation in these 50 years.

Speaking on the occasion, **Sri R V Deshpande**, Honorable Minister for Higher Education and Tourism, Govt. of Karnataka said that the Government would soon come up with a new industry – based education policy. Quality Education where students can build a future in industries will be the focus of the policy. Sri R V Deshpande presided over the event.

Speaking on the occasion, His Holiness Sri Swamiji recalled the combination of the erstwhile Maharaja of Mysore Sri Jayachamarajendra Wadiyar and the previous pontiff of Suttur Math His Holiness Jagadguru Dr. Sri Shivarathri Rajendra Mahaswamigalavaru, that led to the birth



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of SJCE in 1963 as the first effort of the JSS Mahavidyapeetha to offer Technical Education. SJCE now has about 5,000 students pursuing Undergraduate, Postgraduate and Doctoral Programmes. When the late seer wanted to start a Technical Institution, the Maharaja readily agreed to part with the land. As a token of gratitude, it was decided to name the institute after the ruler. With a humble beginning in 1963 offering Technical Education in just three disciplines, he said SJCE has today emerged as a sought-after Engineering College, not just in Mysuru, but in the entire State, offering 12 undergraduate and 16 postgraduate programmes.

Mr. Ronaldo Laishram was felicitated on this occasion, for discovering “Main Belt Asteroid MAUR 397” as part of All India Asteroid Search Campaign (AIASC) in December 2014. Ronaldo and his team – Team Salonivia Conquerors – using exclusive data to look at specific parts of the sky and a complex procedure called. “Astrometrica”, tracked objects by looking at the images of the sky provided by a telescope based in the US to see which of the objects moving over time could be a possible asteroid.

Sri Vasu, Member of Legislative Assembly; Sri R Lingappa, Mayor, Mysuru City Corporation; Sri Mohan Kumar, Chairman, MUDA; were the Chief Guests. Sri B N Betkerur, Executive Secretary, JSS Mahavidyapeetha; Prof. M H Dhananjaya, Director (TED), JSS Mahavidyapeetha; Dr. B Suresh, Vice Chancellor, JSS University were the Guests.

Seers, Unit Officers of JSS Mahavidyapeetha, Former Principals of SJCE, Governing and Academic Council Members, Principals of various institutions and other eminent personalities were present. Prof. Syed Shakeeb ur Rahman, Principal, SJCE welcomed the gathering. Prof. B G Sangameshwara, Joint Director (Academic); Sri B R Umakanth, Joint Director (Projects), JSS Mahavidyapeetha, Prof. B Shivamurthy, Vice Principal (PG); Prof. G M Shashidhara, Vice Principal (UG); Heads of the Departments; Administrative Officers; Heads of various institutions; Staff and Students were present.

Best Thesis award to Dr. B.S. Mahanand: Dr. B S Mahanand, Associate Professor, Dept. of Information Science & Engineering was conferred the prestigious BITES Best PhD Thesis



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Award for the year 2012-13 by the Government of Karnataka's Board for IT Education Standards.

Best Thesis award to Dr. Rudraswamy: Dr. Rudraswamy S B, Assistant Professor, Dept. of Electronics & Communication was conferred the Best Thesis Award at IEEE ISPTS-2 at Pune.

Ronaldo Leishram – Discovered a new asteroid: Mr. Ronaldo is a student of SJCE B.E Computer Science & Engineering , he comes from Manipur, India and the last son of Mr. LaishramMahajon Singh Mrs. Sanahanbi Devi.

In September 2014 Ronaldo had made a preliminary discovery of Main Belt Asteroid MAUR397 as part of All India Asteroid Search Campaign (AIASC) 2014. He made this discovery along with his team Partner for the Team Salonivia Conquerors. Which was ably supported by SPACE TECHNOLOGY & EDUCATION LTD, New Delhi India.

During the initial asteroid search campaign more than 50 teams from INDIA had participated, And only 2 teams could succeed in finding the ASTEROID marks, this is still a preliminary discovery and Only a step away from becoming a confirmed discovery. Confirmed discovery is when the identified object occurs again, which will further be seen and verified by the experts. If the confirmed discovery is positive, SPACE would felicitate Ronaldo and his partner on a Common platform during a felicitation ceremony later in the year and also will give Ronaldo an Opportunity to name the ASTEROID by calling his own name to it or any name as suggested by Ronaldo. As an extension of the first achievement made by Ronaldo, International Astronomical Search Collaboration- IASC has selected him again to find out similar near to earth objects during their Asteroid Search Campaigns which is being conducted from January 8 – February 12, 2015.

For this new assignment only 16 teams across 9 countries have been selected and out of 16 teams, 2 Teams are from India. Ronaldo has submitted his search findings and is awaiting the results of the near to earth objects with the able support of International Astronomical Search Collaboration (IASC) .



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Dr. B. Manoj Kumar, Professor, Environmental Engineering was nominated as the Member of State Environmental Appraisal Committee by Ministry of Environment and Forests, Government of India.

Dr. T.H. Udayashankar, Professor, Environmental Engineering was elected as the Chairman of Institute of Engineers – India, Mysuru Center for 2014-16.

Placement details

SJCE also has an enviable Placement History. In the academic year 2012-13, the placement cell has been successful in placing 626 students across 58 companies offering an average salary of Rs.5.50 Lakhs and a maximum offer of Rs. 16 lakhs.

No Of Companies visited : - 95

Total Placement offers : - 780

Highest Salary offered :- 16.8 Lk CTC

Average Salary offered :- 6.8 Lk CTC

Internship PG (M.Tech) : 66 selects

Majority of the interns will get full time offers in the same company after completion of their internship duration, based on the performance.

PACE (Partners for the Advancement of Collaborative Engineering Education) is a prestigious collaborative programme between SJCE and a consortium of Industries including GM, HP, AUTODESK, SIMENS, ALTIRE and other industries, which have supported SJCE centre with State of the Art hardware and software in the CAD area.

SJCE is one among 66 Universities across 11 countries in the world which have received the PACE Grant.



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It is a global opportunity for all the innovative students to participate in this programme and probably be a part of the PACE Global Annual Forum.

In 2012 SJCE competed the PACE Forum in Shanghai, China. In this competition SJCE won 1st Prize in Collaborative Innovative Challenge (CIC) Project and 2nd Prize in the Sustainable Urban Transport (SUT) Project. Two faculty members and 10 students were sponsored by the College to attend the Forum.

In 2013 SJCE competed the PACE Forum in Pasadena, USA. In this competition SJCE won 2nd and 3rd Prize in Collaborative Innovative Challenge Project (CIC) and 2nd Prize in the Portable Assisted Mobility Devices (PAMD) Project. One faculty and 10 students were sponsored by the College to attend the Forum.

In 2014 SJCE competed the PACE Forum in Torino, Italy. In this competition SJCE won 1st Prize in Collaborative Innovative Challenge Project (CIC) and two Prizes in the NX Certification Competition. Four faculty and 44 students participated in this Forum.

In 2015 SJCE competed the PACE Forum in Sao-Paulo, Brazil. There were a total of 24 projects submitted from PACE institutions from the world. A total of 2 prizes will be declared based on the innovation idea, presentation skills. In this competition SJCE won 2nd Prize in Collaborative Innovative Challenge Project (CIC) and two Prizes in the NX Certification Competition. Two faculty and 13 students were sponsored by the College to attend the Forum. In addition Four more students were sponsored by the PACE Organization.

In view of these achievements SJCE was awarded the Silver Certification by the PACE authorities during the year 2014.

The eyes and ears of SJCE is our Placement and Training Centre which arranges for the campus interviews from various National and multinational companies.



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80-100 Companies visit the campus every year.

85-90% placement in the circuit branches and 70-75% Placement in the Non-circuit branches takes place every year.

The Centre has introduced several training programmes for pre final and final year students in the area of Soft skill, Aptitude, Personality Development and Management and also few technical courses.

SJCE has a very enviable Placement History. In the academic year 2014-15, the placement cell has been successful in placing 728 students across 65 companies offering an average salary of Rs. 6 Lakhs and a maximum offer of Rs. 16 lakhs per annum.

For 2015 pass outs, one year full time internship opportunity would be provided from companies. 53 M.Tech. students have been offered internship.

We take special initiative to train our students before they take part in Campus recruitment activities. Around 500 students from all branches of Engineering have already been imparted with this training.

Dream companies like CISCO, NETAPP, GENERAL MOTORS, NATIONAL INSTRUMENTS Etc. are invited in the initial phase, these companies offer lucrative jobs and roles. Till date 11 such companies have visited the college and have offered jobs for 63 students with the highest package of 14 lakhs from Goldman Sachs, average salary stood at 11 lakhs.

Another 80 to 90 companies like PAYPAL, MICROSOFT, MERCEDES, SAP, ORACLE, BOSCH, TCS, ACCENTURE, Etc. are awaited to visit SJCE in the coming days.

We have also planned to invite personnel from BRITISH COUNCIL, Chennai and United States Consulate to advice students on higher education opportunities and advancement.

SJCE has international collaborations with Asian Institute of Technology, Bangkok, University of North Carolina, USA, Arizona State University, USA, Chonubuk National University, South



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Korea, Malaysian University, Malaysia, Federal University, Brazil, Madam Curie Research Centre, France, University of Tokyo, Japan, Kumamoto National University, Japan, University of Birmingham, UK, etc.,

With regard to co-curricular activities we have student clubs – IEEE, LCC, CSI, Builders association of India, Institutions of Engineers, Indian Rubber Institute and so on. These clubs conduct several technical competitions, seminars and workshops ever year.

A cultural extravaganza – “JAYCIANA”, an annual cultural event of SJCE with a legacy of over 40 years. Popular personalities from across the country in the field of cinema, music, and other field of performing arts have performed on this stage. It is one of the most popular events in Mysuru. This platform, provides an opportunity to all the students to exhibit their talent and since its inception this has been the starting point for many artists. Students from across the State have performed on this stage.

SJCE has Good sports facility with a state of the art gymnasium, 5 tennis courts, Basket ball court; and a Football & Hockey ground. An International Standard cricket ground was established in this campus with the help of KSCA, Bangalore and Mr. Javagal Srinath, Former Indian Cricket Player, an Alumnus of this Institution.

We have Hostel facilities for Boys and Girls on and off campus, accommodating around 800 boys and 300 girls.

SJCE Co-Operative society caters to the student requirements of Stationery and other utilities.

SJCE has a very strong Industry Institute Partnership that has culminated in the establishment of several laboratories as well as identification and development of need based courses, that helps the industry develop manpower to drive the futuristic technologies.



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SJCE has successfully signed many MOUs with organizations of international repute including Bosch Rexroth; Analog Devices; Phillips; Schneider Electricals; IBM and PACE (Partners for the Advancement of Collaborative Engineering Education). SJCE has also signed MOUs with Research Organizations and Foreign Universities for enhancing research and faculty development.

MOU Signed

	IIT, Hyderabad	19 September 2014
	NYSE: IBM	18 October 2014
	Southern Illinois University	1st January 2018
	JSS AHER	5th July 2018
	INTUIT India PDC Centre Pvt., Ltd.,	22nd November 2018
	University of Illinois, UIC, USA	20th August 2018
	CSIR CFTRI, Mysuru	2nd January 2019
	INFLIBNET CENTRE	4th January 2019
	Valles Marineris International Pvt., Ltd.,	21st February 2019
	Asian Polymers, Mandya	23rd March 2019
	H&V Advanced Materials (India) Private Limited, Mysuru	27th March 2019
	Tata Consultancy Services Ltd.,	29th April 2019
	University of California, Riverside, USA	3rd June 2019
	Jeonbuk National University, Jeonbuk, Republic of Korea	May, 2020
	National Highways Authority of India (NHAI)	6th August 2020



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	Karnataka State Science and Technology Academy, Bengaluru	27th August 2020
	Schevaran-Cleanfix Academy (SCA) of Cleaning Sciences Pvt., Ltd.,	26 September 2020
	Australia India Water Center	3rd November 2020
	Indian Rubber Institute (amended)	28 th January 2021
	Bangalore Chamber of Industry and Commerce, (BCIC)	3rd February 2021
	Schevaran-Cleanfix Academy (SCA) of Cleaning Sciences Pvt., Ltd.,	5 th March 2021

Research Data

Post golden jubilee of the institute, SJCE has 1408 journal publications, 997 Conference Proceedings, 137 Review articles and 145 Book Chapters to its credit as shown in Fig 12.

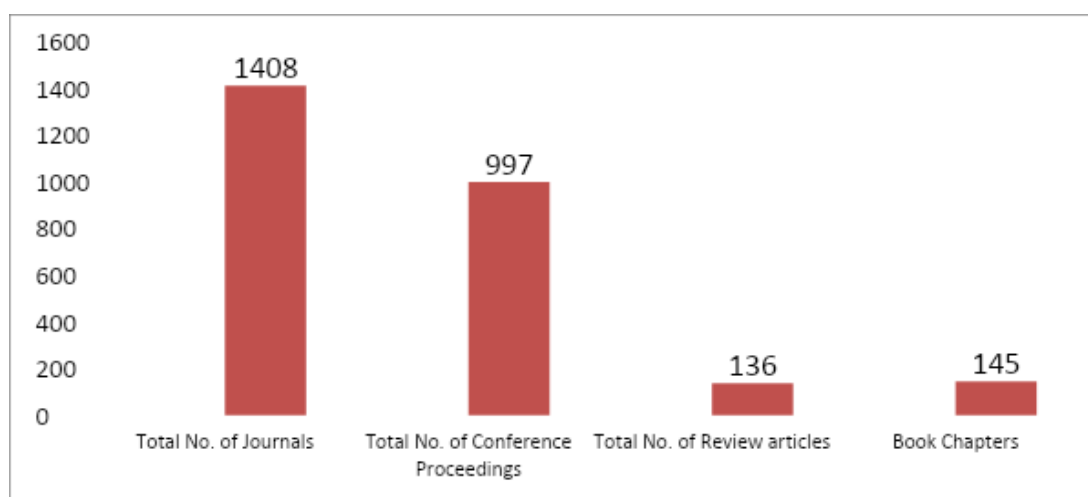


Fig 12: Total No. of Publications



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The statistics of the sponsored research projects carried out in the institute are shown in fig 13.

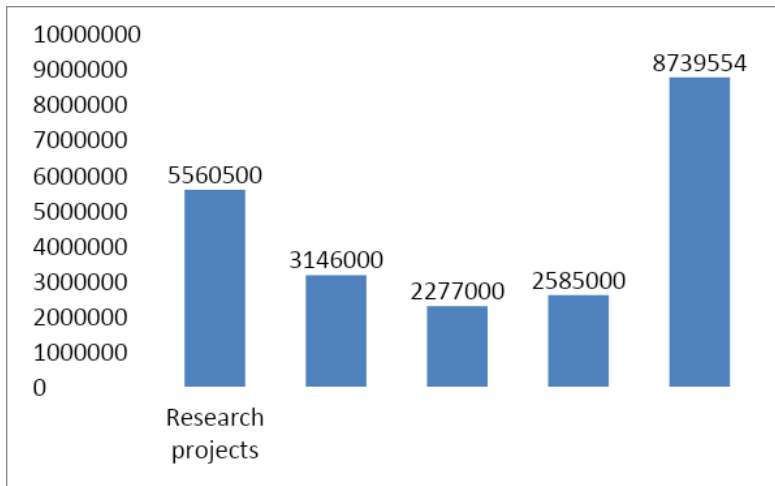


Fig 13: Sponsored Research Project Data (in Rs)

Fig 14 shows the consultancy project information.

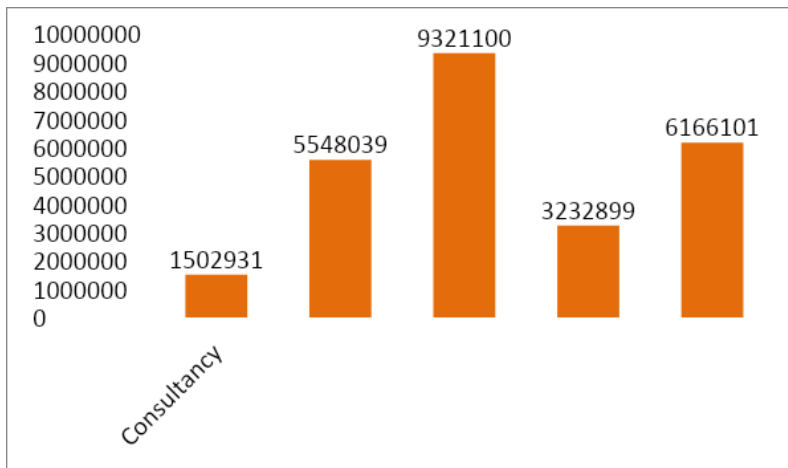


Fig 14: Consultancy Project Data (in Rs)

Total No. of Registered Ph.D. Students is shown in fig 15 below.



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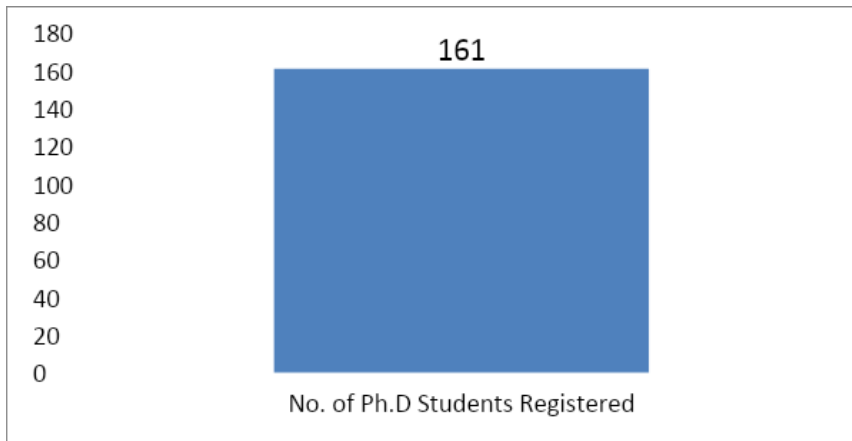


Fig 15 : Total No. of Registered Ph.D. Students

Fig 16 shows the statistics of Faculty Qualification with Bachelors, Masters and PhD.

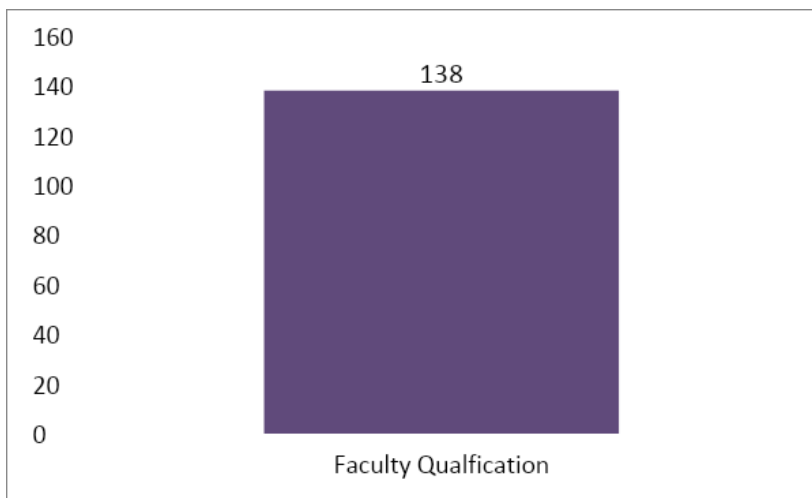


Fig 16: Faculty Qualification

Fig 17 shows the number of patents filed and awarded.



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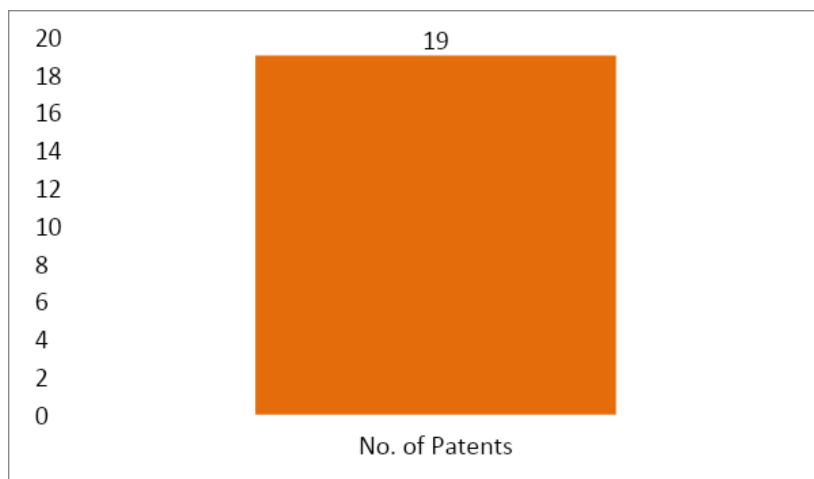


Fig 17: Patents

Fig 18 shows the number of Invited sessions/plenary sessions.

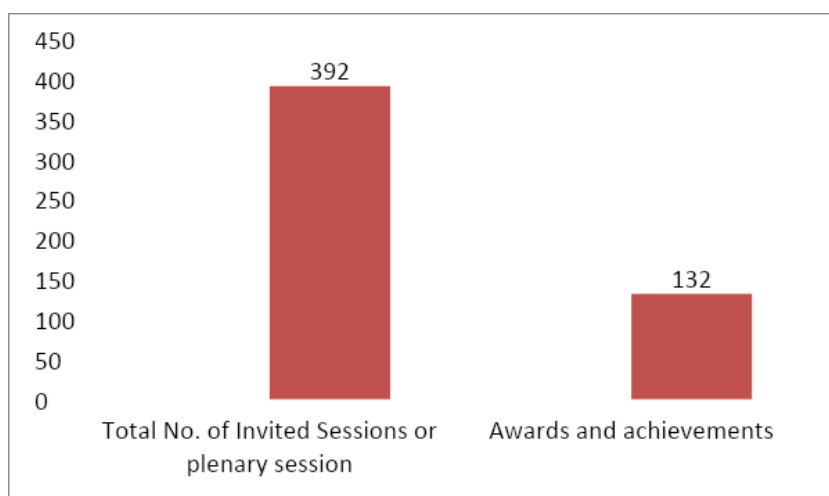


Fig 18: Invited Sessions

Department of Management Studies

JSS Centre for Management Studies (JSSCMS), Department of Management Studies, Sri Jayachamarajendra College Of Engineering, Mysore was instituted in 1998. JSSCMS is a recognized center for MBA Education and Research. It offers a Two Year Full Time MBA

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JSS SCIENCE AND TECHNOLOGY UNIVERSITY
SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING



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programme approved by AICTE and is affiliated to JSS Science and Technology University, Mysuru Karnataka.



JSSCMS has made a name both nationally and globally. In the 20th year going and climbing to the top it has more than 1500 students who have received their MBA degrees so far from JSSCMS and pursuing their career with well-known companies in respectable positions. JSSCMS is continuing its track record of long years of success and promises to maintain the winning streak.

The contemporary 5000 sq.mt Wi-Fi building inaugurated by **Nobel Laureate HH Dalai Lama**.

It has fully equipped lecture halls, computer labs, library, individual faculty cabins with dedicated PC and internet connection, administrative office, student area, seminar hall and ample parking facility for faculty members, students and staff within close proximity to the



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building. The department has 11 spacious multimedia class rooms with projectors to facilitate effective learning for students. The college has a well-established library which caters to the need of Post Graduate Management students with a provision for open access to faculty.

The college library has a varied and up to date collection of 15,000 books and access to over 1400 journals and extensive CD-Database. The amphitheater which is located in the heart of the building is utilized for all the cultural, management activities. Build around 300sq feet area with seating capacity of about 250 people the amphitheater continues to be the setting for various college performances, including celebration of festivals, social gatherings and other campus events.

A well-equipped air conditioned Seminar Hall that can accommodate 160 people is located on the first floor of the building. The hall is equipped with high end audio-visual equipment and 3 overhead projectors that facilitate delivering high quality presentations for Seminars, student presentations, Guest lectures and several other functions that are held regularly.

The programmes offered include MBA (Corporate Finance), MBA (Retail Management), MBA (Digital Marketing) and MBA (Executive Programme).

Industrial relevance of MBA programmes are as follows:

Programmes are designed to impart the knowledge of business and decisions making. Board of Studies is active and revises the curriculum to meet the contemporary requirements of the industry based on industrial expert committee advises. Learning by case studies, hands on experience, mini projects, workshops, short -term courses. Special lectures/ workshops/seminars/ FDP/ conferences by industrial experts and practitioners.

Every year various invited lectures, Industrial visits, workshops and training will be held in the department of management studies for students and faculty members.

Department of Computer Applications



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One among the most reputed courses offered by SJCE is the Master of Computer Applications (MCA). This course was introduced in the year 1986 in SJCE and hence has completed 32 successful years. MCA course was started in response to a strong need for software professionals with the right blend of Computer Applications knowledge and management skills, particularly suited in the field of Computer Applications and Software development.

In 2018, the department has started two new courses: BCA(Bachelor of computer applications. The department is dedicated to produce highly trained professionals in the field of Computer applications. It has highly qualified and experienced faculty supported by well-equipped laboratories, Class Rooms with Multimedia Projector, 24x7 Wi Fi Facility, Digital Library, Start-up Cell for Entrepreneurship Development and Research Laboratory.

JSS Science and Technology University
 JSS Science and Technology University (JSS STU) is one of the recent additions to the institutions administered by JSS Mahavidyapeetha. India's higher education system is on the verge of major reforms and JSS Science and Technology University has been established envisioning to create a bright future and a desired learner-centric eco-system and transform into a futuristic global University. The availability of skilled human resources and trained technical manpower in engineering and technology is a major reason for growing investments in the state. In this context higher education system has a key role and more particularly JSS STU with an objective of transforming the students at all levels of higher education including research and innovation with measures to improve quality of workforce.

About the Department
 Department of Computer Applications has been established to design and offer courses (MCA and BCA) with the objectives of producing the best computer professionals to keep swiftness with the R & D activities in this fast-emerging field of computer applications. Ever since its inception in 1986, the department strives to meet the computing needs of different sectors and offering specially designed courses to their students. The department always strives to provide an updated curriculum as per the changing requirements of the industry by its highly effective and qualified board of studies committee which involves qualified members from industry, research institutes, and academia. With having more than 70 percent placements in reputed companies the department has also witnessed students in promoting start-ups and higher studies. Department is always getting constant encouragement and support for uplifting the quality of education from the management and divine blessings from his holiness.

BACHELOR OF COMPUTER APPLICATIONS - BCA (3 years programme)

- PUC (10+2) from any stream with Mathematics / Statistics as passing Subject with minimum 45% marks in aggregate.
- Three Year Diploma Course (after S.S.L.C. i.e. 10th Standard), of Board of Technical Education conducted by Government of Karnataka or its equivalent.
- Every eligible candidate has to pass Common Entrance Test to be conducted by the respective University.

MASTER OF COMPUTER APPLICATIONS - MCA (2 years programme)

Candidates must have a Bachelor Degree in Computer Science Engineering or Equivalent Degree

OR

Passed B.Sc./B.Com./B.A. with Mathematics in 10+2 level or at Graduation Level (with additional bridge courses as per the norms of the concerned University).

Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.

Vibrant Learning Environment

- Strong work ethic
- Creating experiences that extend their classroom learning into the real world.
- Active participation in class
- Out-of-class learning
- Atmosphere of academic integrity

Research and Development

- Promotes Interdisciplinary Research
- Faculty / Students focus on research problems that have a significant societal impact.
- The pulsating academic environments have resulted in publications in premier conference proceedings and leading journals.
- Faculty owns many awards and honours for research and development activities.

Placements & Alumni

- Encourage students to gain a great deal of knowledge trained in Functional English & German language.
- Dept. has consistently maintained an excellent recruitment record.
- Department has a strong, lively alumnus that extends across the globe.

Dynamic Faculty

- The department takes gratification in the expertise and commitment the faculty brings to the interactions with the students.
- Effective learning experiences for students have created a research ambience.
- The department has nurtured a tradition of research and innovation culture and finds them actively participating for conferences and technology events.
- The commitment of the faculty in their academic field has inspired students to do their best has attracted leading companies.

Infrastructure

- Promotes and practice entrepreneurial culture in the student communities
- Support rigorous academic study and promote learning among a diverse student community.

Collaboration

- Department has a very strong collaboration with universities and industries.
- Faculty members are actively involved in collaborative research in the field of Machine Learning and Artificial Intelligence.
- Department has a strong International research collaboration with Nottingham Trent University, UK, University of Genoa, Italy, Qatar University, and many more.