

SIT

ESTD : 1963

PROSPECTUS



Dr. Sree Sree Sivakumara Swamiji

Founder
Sree Siddaganga Education Society

Our Motto **Work is Worship**

VISION

To develop young minds in a learning environment of high academic ambience by synergising spiritual values and technological competence



Sree Sree Siddalinga Swamiji

President
Sree Siddaganga Education Society

MISSION

To continuously strive for the total development of students by educating them in state-of-the-art technologies and helping them imbibe professional ethics and societal commitment, so that they emerge as competent professionals to meet the global challenges



Sri T.K. Nanjundappa

Secretary
Sree Siddaganga Education Society



Dr. M.N. Channabasappa

Director
Siddaganga Institute of Technology



Dr. Shivakumaraiah

Chief Executive Officer
Siddaganga Institute of Technology



Dr. S.V. Dinesh

Principal
Siddaganga Institute of Technology

Quality policy

Siddaganga Institute of Technology is committed to :

- ◆ *Impart quality education by establishing effective learning-teaching-learning processes to produce competent engineers and managers with high professional ethics and societal responsibility.*
- ◆ *Create congenial environment and provide state-of-the-art infrastructure.*
- ◆ *Pursue Research in thrust areas leading to technology transfer and help rural development.*
- ◆ *Continually improve the effectiveness of the quality management system.*
- ◆ *Satisfy all applicable requirements.*

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Board of Management - Sree Siddaganga Education Society

Founder : His Holiness Dr. Sree Sree Sivakumara Swamigalu

President : His Holiness Sree Sree Siddalinga Swamigalu

Hon. Secretary : **Sri T.K. Nanjundappa**, M.A., B.L.
No. 123, J.C. Road, Tumakuru - 572 101.

Members : **Dr. M.N. Channabasappa**, M.A. (Maths), Ph.D.
Director
Siddaganga Institute of Technology, Tumakuru - 572 103.

Sri N.R. Jagadish

Managing Director, Siddaganga Oil Extractions,
B.H. Road, Tumakuru - 572 104.

Sri B. Shantharaju

Coffee Planter, B.M. Road, Sakaleshpur - 573 134.

Dr. B. Shivappa, M.B.B.S.

No. 438, Rajamahal Vilas Extension, Sadashivanagar,
Bangalore - 560 080.

Sri S. Shivaprasad, B.E.

No. 50/1 ' Shiva Krupa ' Bull Temple Road,
Basavanagudi, Bangalore - 560 004.

Sri T.M. Swamy, B.Tech.

Industrialist, 16th Cross, S.S. Puram, Tumakuru - 572 102.

Sri B.S. Paramashivaiah, M.A.

No. 1149/29, 11th Main, R.P.C. Layout,
Vijayanagar, Bangalore - 560 040.

Dr. Shivakumaraiah, Ph.D.

Chief Executive Officer
Siddaganga Institute of Technology, Tumakuru - 572 103.

Dr. Munirajappa, M.Sc., Ph.D.

Professor (Retd.), # 43, "Hombelaku", Binny Layout,
Behind Athikuppe, Vijayanagar, Bangalore - 560 040

Dr. Y. Tulajappa, Ph.D.

Professor (Retd.), # 628, 11th 'B' Cross, 1st Main, 80 ft. Road,
Girinagar 2nd Phase, Bangalore - 560 085

Sri K.S. Manjunath

Industrialist, Sri Maheswara Rice Mill, Gubbi Gate Circle,
B.H. Road, Tumakuru - 572 101.

Sri B.N. Prasanna Kumar, B.E.

Class - I Contractor, Garden House, Garden Road,
Agrahara, Tumakuru - 572 101.

Governing Council - Siddaganga Institute of Technology

- Chairman** : **His Holiness Sree Sree Siddalinga Swamigalu**
President
Sree Siddaganga Education Society, Sree Siddaganga Math, Tumakuru - 572104
- Member** : **Prof. S.V. Dinesh**
Secretary : Principal, Siddaganga Institute of Technology, Tumakuru - 572 103
- Members** : **Dr. K.P. Singh**, Ph.D. - UGC Nominee
Joint Secretary (Retd.), University Grants Commission, New Delhi
- Chairman** - AICTE Nominee
Department of Electrical Engineering, I.I.Sc., Bengaluru - 560 012
- Prof. H.C. Nagaraj**, Ph.D. - VTU Nominee
Principal, Nitte Meenakshi Institute of Technology, P.B. No. 6429, Bangalore - 560064.
- Director or Technical Education** - State Government Nominee
Tantric Shikshana Bhavan, Palace Road, Bengaluru - 560001
- Dr. V.K. Aatre**, Ph. D.
Former Scientific Advisor to the Defence Minister & Former Secretary, DRDO
- Prof. S. Sadagopan**, Ph. D.
Former Director, IIIT Bangalore, 26/C, Electronics City, Hosur Road, Bengaluru - 560 100
- Prof. B. Ravi**, Ph. D.
Institute Chair Professor, Dept. of Mechanical Engg., IIT Bombay, Powai, Mumbai - 400076
- Prof. K. P. J. Reddy**, Ph. D.
Professor (Retd.), Dept. of Aerospace Engg., I.I.Sc., Bengaluru - 560012
- Prof. S. Rajashekharaiiah**, Ph. D.
Founder Vice Chancellor, Visvesvaraya Technological University, Belagavi
- Dr. Nagahanumaiah**, Ph. D.
Director, Central Manufacturing Technology Institute, Bengaluru - 560022
- Dr. U. Chandrasekhar**, Ph.D.
Former Additional Director, GTRE, DRDO, Bengaluru and Visiting Professor, IITB, Mumbai
- Sri P.B. Kotur**, M.E.
Head - Global Freshers Engagement Program, WIPRO Technologies, Bengaluru
- Sri. T. K. Nanjundappa**, M.A. B. L.
Secretary, S.S.E.S., No. 13, J.C. Road, Tumakuru - 572101
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Director, Siddaganga Institute of Technology, Tumakuru - 572 103.
- Sri. S. Shivaprasad**, B. E.
No. 51/1, "Shiva Krupa", Chandrashekar Layout, Basavanagudi, Bengaluru - 560004
- Sri. T. M. Swamy**, B.Tech.
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- Prof. Shivakumaraiah**, Ph. D.
Chief Executive Officer, Siddaganga Institute of Technology, Tumakuru - 572 103
- Prof. R. Srikantaswamy**, Ph. D.
Professor, Dept. of Electronics & Communication Engg., S.I.T., Tumakuru - 572 103
- Dr. N.G. Siddagangamma**, Ph. D.
Assistant Professor, Dept. of Mathematics, S.I.T., Tumakuru - 572 103

Academic Council - Siddaganga Institute of Technology

- Chairman :** **Prof. S.V. Dinesh**, Principal, S.I.T., Tumakuru
- Members :** **Prof. Kori Jagadish**, Professor & Head, Dept. of Civil Engg., Government Engineering College, Haveri - VTU Nominee
- Prof. Venugopal. K.A.**, Professor, Dept. of Mechanical Engineering, Malnad College of Engineering, Hassan. - VTU Nominee
- Prof. Mrityunjaya V Latte**, Principal, J.S.S. Academy of Technical Education, J.S.S. Campus, Uttarahalli - Kengeri Main Road, Bengaluru - VTU Nominee
- Dr. M.H. Kori**, Former Technical Director, Lucent Technologies, #520, 11th 'A' Cross, RMV Extension, Bengaluru - 560080.
- Dr. U. Chandrasekhar**, Former Additional Director, GTRE, DRDO, Bengaluru and Visiting Professor, IITB, Mumbai
- Dr. M. Manjuprasad**, Chief Scientist & Professor, (AcSIR), Head, KTMD & Advisor (W&S), CSIR, National Aerospace Laboratories, Kodihalli, Old Airport Road, Bengaluru - 560 017.
- Prof. Mamatha P. Raj**, Director, BMS College of Architecture, Bengaluru.
- Prof. Channappa B Akki**, Professor, Dept. of Chemical Engineering, IIIT, Dharwad.
- Dr. Muttana S Balreddy**, Head of the Department, Civil Engineering
- Prof. H.R. Purushothama**, Head of the Department, Mechanical Engineering
- Prof. Rashmi**, Head of the Department, Electrical & Electronics Engineering
- Prof. K.V. Suresh**, Head of the Department, Electronics & Communication Engineering
- Prof. H.M. Kalpana**, Head of the Department, Electronics & Instrumentation Engineering
- Prof. G.V. Prabhushankar**, Head of the Department, Industrial Engineering & Management
- Prof. S. Murthy Shekhar**, Head of the Department, Chemical Engineering
- Prof. A.S. Poornima**, Head of the Department, Computer Science & Engineering
- Prof. R. Aparna**, Head of the Department, Information Science & Engineering
- Prof. K. Viswanath**, Head of the Department, Electronics & Telecom. Engineering
- Prof. K.C. Tanuja**, Head of the Department, Architecture
- Prof. B.S. Gowrishankar**, Head of the Department, Biotechnology
- Prof. S. Panneerselvam**, Head of the Department, Master of Business Administration
- Prof. B.G. Premasudha**, Head of the Department, Master of Computer Applications
- Prof. H.M. Suresh Kumar**, Head of the Department, Physics
- Dr. H.S. Lalithamba**, Head of the Department, Chemistry
- Prof. S. Suresh Kumar**, Head of the Department, Mathematics
- Prof. U.S. Mallik**, Professor & IQAC Co-ordinator, S.I.T., Tumakuru
- Dr. M. Siddalinga Prasad**, Controller of Examinations
- Prof. V. Siddeswara Prasad**, Dean (Student Welfare), S.I.T., Tumakuru
- Prof. Jagadeesh P Ganjigatti**, Professor, Department of Industrial Engineering & Management
- Dr. B.N. Shashikala**, Associate Professor, Electronics & Communication Engineering
- Dr. K. Chandrappa**, Associate Professor, Dept. of Mechanical Engineering
- Dr. K.G. Manjunath**, Assistant Professor, Department of Computer Science & Engineering
- Member Secretary :** **Prof. H.S. Jayanna**, Dean (Academic) and Professor, Department of Information Science & Engineering, S.I.T., Tumakuru
- Special Invitees :** **Dr. M.N. Channabasappa**, Director, S.I.T., Tumakuru
- Dr. Shivakumaraiah**, Chief Executive Officer, S.I.T., Tumakuru

About Ourselves

Sree Siddaganga Education Society

Sree Siddaganga Math is one of the most ancient and renowned spiritual centres of South India, situated amidst serene and colourful landscape at a distance of 63 km from Bangalore, on Bangalore-Pune Highway. It was founded six centuries ago by the great saint Sree Gosala Siddeshwara Shivayogi.

His Holiness Dr. Sree Sree Sivakumara Swamiji, was initiated to the holy order in 1930 by his guru, His Holiness Sree Sree Uddanashivayogi, and became the Mathadhyaksha of the Math (Revered President) in the year 1941.

His Holiness was an embodiment of piety, spirituality and compassion to the poor and the rural masses. Starting with only one Veda and Sanskrit Pathashala of 80 students, Sree Siddaganga Education Society, under the presidentship of His Holiness, has been able to establish 125 institutions of learning; commencing from nursery to advanced technical education.

Free boarding and lodging to over 10000 students and thousands of pilgrims who visit the Math every day are provided. During the period of his life as a saint spread over eight decades, His Holiness has, through his spiritual attainment, scholarly eminence and programmes of social service, made a significant and visible contribution to the transformation of the lives of millions of people of all castes and creeds who have come within the orbit of his benevolence. Recognising his selfless service to the society, the Government of Karnataka conferred on Swamiji, the highest civilian award, "**Karnataka Ratna**" and Government of India conferred the "**Padma Bhushana**" award.

Siddaganga Institute of Technology, which was established in the year 1963, is one among the one hundred and twentyfive institutions run by Sree Siddaganga Education Society under the patronage of Sree Siddaganga Math. The founder President of the Society is Dr. Sree Sree Sivakumara Swamiji.

Sree Sree Siddalinga Swamigalu, the President of Sree Siddaganga Math and Sree Siddaganga Education Society is providing excellent guidance and leadership to carry forward the yeoman services rendered by his Guruji and furthering the activities.

Siddaganga Institute of Technology has completed 50 years and Dr. A.P.J. Abdul Kalam, Former President of India inaugurated the Golden Jubilee Celebrations of the institute with gaiety and grandeur on 18-09-2013. As part of the celebrations, National and International Conferences are being organised. Golden Global Alumni Meet at SIT was organised on March 1st & 2nd, 2014, with participation of 1500 alumni drawn from 17 countries.

Our motto Work is Worship

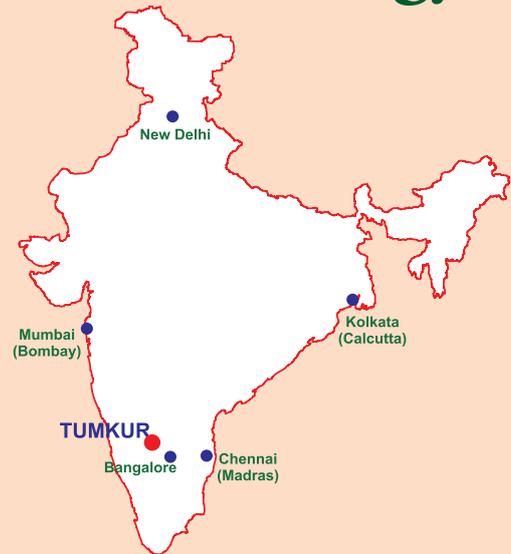


Mass Prayer at
Sree Siddaganga Gurukula

Siddaganga Institute of Technology

Location

Siddaganga Institute of Technology (SIT) is located in an ideal and congenial environment on the outskirts of Tumkur City on the Bangalore-Pune national highway. It is 65 km from the metropolitan city of Bangalore and enjoys the same salubrious climate as that of Bangalore.



Autonomy

Visvesvaraya Technological University, Government of Karnataka and University Grants Commission, New Delhi have granted Academic Autonomy for all the Under-Graduate Programmes from the Academic Year 2007-08 and for Post-Graduate Programmes from the Academic Year 2008-09.

In the Autonomous System, there is greater emphasis on continuous learning and evaluation. Evaluation in each subject is for 100 marks, out of which 50% for Continuous Internal Evaluation (CIE) and 50% for the Semester End Examination (SEE). CIE is computed on the basis of the performance of the student in 4 quizzes, 2 tests and minimum of 3 assignments. Each quiz is evaluated for 3 marks each, test for 17 marks and 4 marks are allotted for assignments.

To obtain a pass grade, a student has to get at least 40% in CIE and 40% in SEE.

To ensure transparency, confidentiality and fairness in evaluation, answer scripts are coded and double evaluation (by internal and external evaluators) is adopted. The performance of the students in each subject is indicated by Letter Grades. The curriculum is revised on regular basis, almost every year.





Campus

Total area : 50 Acres

(40 Acres of land donated by Sri. M.V. Shivappa)

Built up area : 101392 Sq.m.

(Administrative Block, Departmental Buildings, Workshops, Library, Auditorium, Gymnasium, Stadium, Canteen and Health Centre)

MOUs with Foreign Universities

SIT has signed memorandum of understanding with University of Memphis, Tennessee, USA and RMIT, Australia for student and faculty exchange.

RMIT awarded a scholarship of AUS \$32000 per year to Anshuman Banerjee, a graduate of Information Science Department for a period of 3 years to pursue Ph.D., who successfully completed the programme and obtained Ph.D. degree.



SIT Main Entrance



Language Learning Laboratory





Academic Information

Under Graduate Programmes

Sl. No.	Discipline	Duration in years	Students intake
1.	Civil Engg.	4	60
2.	Mechanical Engg.	4	180
3.	Electrical & Electronics Engg.	4	60
4.	Electronics & Communication Engg.	4	120
5.	Chemical Engg.	4	60
6.	Electronics & Instrumentation Engg.	4	60
7.	Industrial Engg. & Management	4	60
8.	Computer Science & Engg.	4	120
9.	Architecture	5	40
10.	Information Science & Engg.	4	60
11.	Electronics & Telecommunication Engg.	4	60
12.	Biotechnology	4	30



Post Graduate Programmes

Sl. No.	Discipline	Duration in years	Students intake
1.	M.Tech. (Structural Engg.)	2	18
2.	M.Tech. (Thermal Power Engg.)	2	18
3.	M.Tech. (Computer Science & Engg.)	2	18
4.	M.Tech. (Signal Processing)	2	18
5.	M.Tech. (Manufacturing Sc. & Engg.)	2	18
6.	M.Tech. (Transportation Engg. & Mgmt.)	2	18
7.	M.Tech. (Computer Network Engg.)	2	18
8.	M.Tech. (Digital Communication Engg.)	2	18
9.	M.Tech. (Power Electronics)	2	18
10.	M.Tech. (Cyber Forensic & Info. Security)	2	18
11.	M.Tech. (VLSI Design & Embedded Sys.)	2	18
12.	MCA	3	60
13.	MBA	2	120



Ph.D. Programmes in the following Departments

Sl. No.	Discipline	No. of Research Scholars
1.	Civil Engineering	09
2.	Mechanical Engineering	49
3.	Electrical & Electronics Engineering	04
4.	Electronics & Communication Engineering	17
5.	Chemical Engineering	09
6.	Instrumentation Technology	02
7.	Computer Science & Engineering	29
8.	Telecommunication Engineering	05
9.	Industrial Engineering & Management	10
10.	Biotechnology	03
11.	Physics	10
12.	Chemistry	11
13.	Mathematics	15
14.	MCA	18
15.	Management	16
16.	Nanotechnology	...



Faculty

Category	Total	Ph.D.	PG	B.Arch.
Director	01	01	--	--
Principal	01	01	--	--
Dean (IED)	01	01	--	--
Professors	48	44	04	--
Associate Professors	58	33	25	--
Assistant Professors	184	51	122	11
TOTAL	293	131	151	11

Student Development Programmes

1. Students' Symposia

Students' symposia are conducted annually by each department and the students are encouraged to present papers, exchange ideas on recent advances in technology with students of other colleges, as well as experts from industry and R & D organisations.

The symposia conducted are :

- BROWSE** - Computer Science & Engg., Information Science & Engg and MCA Departments.
- Bio-ChESS** - Chemical Engg. & Biotechnology Depts.
- MOMENTUM** - Mechanical Engg. Department
- SHELTER** - Civil Engg. Department
- IEMage** - Industrial Engg. & Management Department
- TECHNISIUM** - Electrical Science Branches (Electrical & Electronics Engg., Instrumentation Technology and Electronics, Electronics and Communication, Telecommunication Departments)
- RACHANA** - Architecture Department
- ASHWAMEDHA** - MBA Department

The symposia also include technical quiz competition, hobby projects exhibition, industry - student interaction and other sessions. Students from various technical institutions actively participate in these students symposia.

2. Cultural Activities

Two cultural festivals namely, SPANDANA and HALCYON are organised in each semester of the year. Students from various technical institutions of Karnataka State participate in these festivals, which include a variety of events like English & Kannada debates, quiz, essay writing, mimicry, dance, drama, etc. and are aimed at increasing the friendship and exchange of ideas among students of different institutions.



3. Institute Magazine

SIT annually brings out a magazine entitled **TECHNOLOGY** containing articles on science, technology and literature aimed at developing the literary and creative talents of both students and staff.



A monthly news letter entitled "**KĀYAKA**" is being brought out containing the latest activities and developments of the institute.



4. Student Work Planner

Each student is given a **Hand book cum Work Planner** in which he/she can enter his daily programmes and plans on hourly basis from 5.00 a.m. to 12.00 midnight. There is also provision for personal assessment of his/her performance in tests, discussion with proctor, usage of library, etc. The aim is to enhance the efficiency of the student through careful planning and utilization of his/her time.

5. Academics

SIT gives utmost importance to academics.

- ♦ The attendance of students is regularly monitored and reports are sent to the parents periodically.
- ♦ **Proctorial system** is in place where a teacher is assigned the responsibility of approximately 20 students. The teacher takes care of their academics and give guidance for personal problems.
- ♦ **Free coaching classes** are held for slow-learning students in the evenings to help them solve problems and understand subjects they find difficult.
- ♦ **The laboratories** are kept open till 20.00 hours in the evening to help students repeat the experiments in which they need confidence.
- ♦ **Bridge courses** are periodically arranged to augment the syllabus to meet the industrial needs.

6. Value Addition Programmes

i. Industrial Competency Laboratory

To help the students to acquire additional competencies and skills, in industrial practices, the institute has established an Industrial Competency Laboratory (ICL), a unique and distinct feature of the institute.

ICL was established in the year 2002 and the entire infrastructure needed was created in consultation with experts from the industry.

ICL is an ongoing effort to create and instill skills to reorient the students in application of software development. Simultaneously, it also aims at providing an industrial environment in the academic institutions by imparting competencies and best practices relevant to the industry. Thus, it is an overall endeavor to empower students to be productive from the beginning of their career.

Course Content

The course content involves system analysis, design, knowledge of basic system, application software and tools for development of applications and their utilities in various situations oriented to fulfill the needs of the client.



Industrial Competency Laboratory

Infrastructure and Facilities

ICL is adequately equipped with aims and objectives to fulfill and satisfactorily carry out the training activities as per the aims and objectives mentioned above.

Hardware and Software

At present, the Laboratory consists of a Server with Local Area Network facility and 38 personal computers and has the core operating systems and database and web-development tools.

Course Duration and Criteria

The students are normally drawn from computer Science, MCA, Information Science and Engineering, Electronics and Communications, Telecommunication Engineering, Electrical and Electronics and Instrumentation Technology branches. However, students from other branches and streams are also admitted (preferably with strong computer knowledge). The basic knowledge of C, C++, Java, VB and VC++ would be necessary.

Students seeking admission to the course should have obtained 65% in aggregate from all semesters. They are admitted at the end of VI Semester (BE) and IV (MCA) so that, at the termination of their course, they will be empowered with skills to get suitably placed.

The course duration is one year with inputs ranging from 230-350 hours. The first six months of 200 hours, constitute basic training in tools, project orientation and system development. The next six months with 150 hours of enhanced training, is meant for project development, its execution and successful implementation.

Trainee Sponsorship :

The ICL has MoU with two Software Firms like ADEA and VeriSign to sponsor candidates for training in ICL. In addition, students from SIT have also enrolled for training.

ii. IBM Centre of Excellence

Students have the opportunity to work on IBM tools under the supervision of IBM trained faculty and obtain IBM certification. IBM has provided all software free of cost and they have trained our faculty in usage of software like DB2, RAD and LOTUS DOMINO etc. The faculty in-turn conducts this programme and trains the students for certification by IBM.

iii. Mission 10X Technology Learning Centre

This centre is established in association with WIPRO Technologies. It is equipped with Unified Technology Learning Kits using which students and faculty members are carrying out innovative projects.

iv. Intel Intelligent Systems Lab

M/s. Foundation for Innovation & Collaborative Education (FICE) who have tie-up with M/s. Intel Technology India Private limited have identified our college as one of the few colleges across

India, to set up a Intel Intelligent Systems Laboratory using Intel@Atom™ Processor under Intel College Excellence Programme. These Intel Atom Innovation kits were designed jointly by FICE, Intel Corporation and faculty at the Indian Institute of Science, Bangalore.

M/s. Intel Technology India Private limited have identified our college as one of the few colleges across India, to set up an Intel Intelligent Systems Laboratory using Intel Atom™ Processor under Intel College Excellence Programme. These Intel Atom Innovation kits were designed jointly by FICE, Intel Corporation and faculty at the Indian Institute of Science, Bangalore.

The establishment of this laboratory facilitates the students to have hands on experience to develop high end applications using advanced embedded systems. This would also help to a great extent in strengthening and enhancing the innovation capabilities of students and faculty.

v. PICO Satellite

Our students and faculty are actively participated in the design and development of PICO Satellite.

vi. Robotics Laboratory

Robotics Laboratory under e-Yantra Lab setup initiative (eLSI) for spreading Embedded Systems and Robotics Education has been set up.

vii. Introduction of Research Component in UG Programme

To inculcate the research culture among the UG students, research component is introduced in the curriculum from the academic year 2012-13.

To encourage highly merited and motivated students to take up research in the emerging areas, students are exempted from studying one open elective subject and one humanity subject (one open elective or one humanity subject in V semester and the remaining open elective or humanity subject in VI semester).

The topic of research will be jointly decided by the students and guide, the faculty possessing Ph.D. degree.

Only those students who have CGPA ≥ 8.5 are eligible for this scheme.

The research work carried out by the students will be evaluated for 6 credits at the end of VI semester by two external experts in the area. It is desirable that they publish a paper in a reputed journal on the research carried out.

7. Computer Facilities

- ◆ Fortytwo computer centres located in different departments. Each centre is on LAN.
- ◆ 2470 computers with latest configuration.
- ◆ All the centres are connected through a campus wide network with fibre optic backbone.
- ◆ 250 Mbps internet leased line available round the clock.
- ◆ Wi-Fi Campus.
- ◆ Our Website : www.sit.ac.in

Library

T.N. Kempahonnaiah Library

The library, centrally located in the campus, is housed in two independent 3-storeyed buildings having a plinth area of 1851 Sq.m. The Library building was built by donation received from Sr. T.N.Kempahonnaiah, a philanthropist from Tumkur.

The Library has a collection of over 160031 Volumes, including 48286 volumes under General, 47756 volumes under the Book Bank, about 14681 volumes under SC/ST Book Bank, 5689 volumes under T-Series and 24250 e-books. The collection includes reference works such as dictionaries, encyclopedias, handbooks, and relevant BIS standards.

The Library has subscribed to 237 print journals and 13597 e-journals. The Library also subscribes to e-resources (books & journals) like Elsevier, Springer Nature, Taylor & Francis, Institution of Civil Engineers, Emerald, McGraw Hill Education, New Age International, Packt, Knimbus, Turnitin and Net Analytik etc., through VTU Consortium and accessible across the campus.

Digital Library has 34 computers which are connected to internet to facilitate access of e-resources (e-books and e-journals) subscribed by the institution and NPTEL resources.

The Library has membership with reputed libraries in Bangalore, like British Library, NAL Library, IIMB Library and CMTI Library by which our



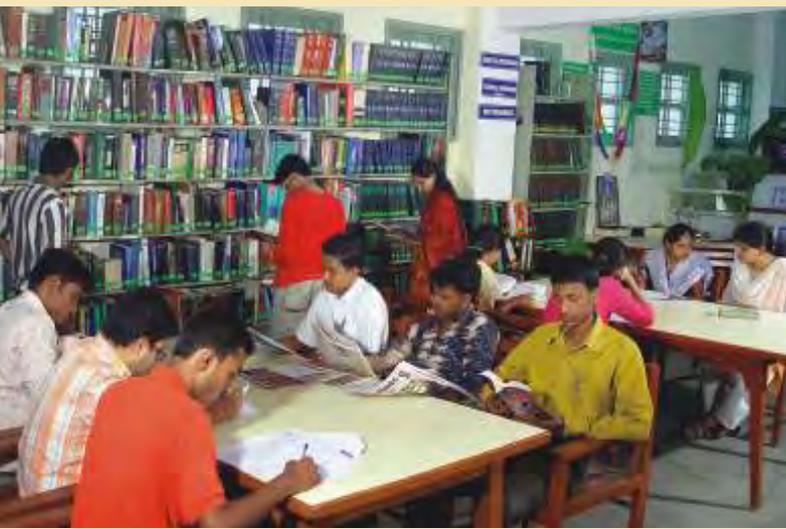
students and faculty can avail the reference services offered by these libraries.

The officials from nearby industries like WIPRO, TVSE, etc. and alumni of institute are encouraged to become members and avail the services of the library.

The seating capacity of the library is for 546 users at a time, which includes two separate A.C. reading halls of a capacity of 150 users. In addition to this, a separate reading room facility for reading newspapers and General Magazines is also made available.

The Library is computerized with open source software (New Genlib) which facilitates Internet / Intranet access library catalogue accessible across Internet (<http://opac.sit.ac.in:8080/newgenlibtxt>). The software has a facility for bar coding of inventory and circulation of books.

The library is kept open from 0080 hours to 0030 hours (past midnight) on all working days except on Saturday (8.00 am to 8.00 pm) and Sunday & general holidays (10.00 am to 4.00 pm). The Library is closed only on five National Holidays. During examination library is kept open 24x7.





Ganga Girls Hostel Block



Allamaprabhu Hostel Block

S.I.T. Group of Hostels



4 Boys Hostels

2 Girls Hostels

Together can accommodate
2100 students in a plinth
area of 30021 sq.m



1. Administration

S.I.T. Group of Hostels represent a miniature India with students hailing from all parts of India. S.I.T. Group of Hostels are functioning under the administrative and financial control of a Committee, the composition of which is :

- | | |
|--|----------|
| i) Dr. K.P. Shivananda
Principal, S.I.T., Tumakuru. | Chairman |
| ii) Dr. M.N. Channabasappa
Director, S.I.T., Tumakuru. | Member |
| iii) Sri T.K. Nanjundappa
Hon. Secretary, S.S.E.S. | Member |
| iv) Sri T.M. Swamy
Industrialist, Member,
Governing Council, S.I.T. | Member |

- | | |
|---|----------|
| v) Dr. Shivakumaraiah
CEO, S.I.T., Tumakuru. | Member |
| vi) Dr. P. Usha
Professor
Dept. of Mathematics
S.I.T., Tumakuru and
Chief Warden, S.I.T. Group of Hostels. | Convener |

2. Accommodation

S.I.T. Group of Hostels provide accommodation for boys in four hostels and girls in two hostels with a total capacity of about 2100. Each hostel block is managed under the supervision of a Deputy Warden who is a senior faculty member of S.I.T. He / She is assisted by managers and staff.

3. Hostel Blocks

Hostel Block	Deputy Warden	Students being allotted	Capacity
Basaveshwara Block (Boys Hostel)	Dr. S. Suresh Kumar Dr. C. Somashekar	I year B.E., MBA, MCA, M.Tech.	580
Lalbahadur Shastri Block (Boys Hostel)	Dr. Nandeesh	II year B.E.	330
Mahatma Gandhi Block (Boys Hostel)	Dr. B. Vasudeva	III year B.E.	366
Allamaprabhu Block (Boys Hostel)	Dr. Virupaxi Auradi	IV year B.E., II year MBA, III year MCA, M. Tech	293
Akkamahadevi Block (Girls Hostel)	T.O. Geetharani	III, IV year B.E., III year MCA	240
Ganga Block (Girls Hostel)	Dr. K.B. Roopa	I, II year B.E., MBA, MCA, M.Tech	293

- A building with 55 double seated rooms (area of 2922 sq.m.) with attached bathrooms and internet facility is available for allotment to students seeking admission under PIO and Foreign quota.
- Each room in all the hostels has been furnished with cots, tables, chairs, steel cupboards and a ceiling fan.

4. Boarding

- Each hostel has independent mess.
- Only vegetarian food is served - South and North Indian cuisine.
- Hygienic food is prepared using L.P. gas, steam cooking, kneading machine, chapathi making machine, vegetable cutter, etc.
- RO processed water for drinking and cooking.
- Night tea during study holidays and examinations.
- Mess charges are arrived at on dividing basis.
- Hygienic bath rooms.

5. Other Facilities

- 24 hours water supply.
- Diesel generator sets for providing back up power supply in all hostel blocks with a total capacity of 620 KVA.
- Visitors Room
- Newspapers and Magazines
- 24 hours Telephone facility (minimum of 2 lines in each hostel) for incoming calls.
- Television
- Laundry (outside agency)

6. Internet Facility

Internet facility has been provided through wireless connectivity to all hostel blocks in campus and Girls Hostel Blocks.

7. Medical Facilities

- Full time medical officer with a dispensary in the campus.
- Lady consulting doctors for girls hostels.
- Psychiatrist for consultation and counselling.
- MOU with Vinayaka Hospital and Manipal Hospital for in-patient care and speciality consultation.
- Ambulance service for referral cases.

8. Transport Facilities

The hostels have the following vehicles.

Bus	03 Nos.	To arrange conveyance for students staying in hostels located outside the campus.
Truck	01 Nos.	To transport vegetables, groceries and others.
Water Tanker	01 No.	To supply water to the hostels located outside the campus.
TATA SUMO	01 No.	
TATA ACE	01 No.	To transport small quantities of vegetables and others.
Ambulance	01 No	

9. Landscape

Lawns inside and in front of the hostels have enhanced the scenery aesthetics.



Sports & Games

The institute has the following facilities for sports activities.

- 400 m. athletic track with 8 lanes
- 3 practice pitches with net facility & 1 match pitch for Cricket.
- Football and Hockey grounds.
- 2-Basket Ball (Flood-lit), 2-Volley Ball (Flood-lit), 2-Tennis and 2-Ball Badminton courts.
- Fully equipped indoor stadium with multi-gym facility (separately for boys and girls), 2-Badminton Wooden courts, 5- Table Tennis Boards and Chess.
- Separate indoor sports facilities for girl students.
- A stadium for indoor and outdoor sports.



Dr. Sree Sivakumara Swamiji Stadium



View of the Stadium



VTU Inter - Collegiate Volley Ball Match in progress



Basket Ball match in progress



Gymnasium

Other Facilities



Yoga class in progress



ATM Counter



Health Centre



Birla Auditorium

- Health centre with full time Medical Officer.
- NCC, NSS, Siddha Samadhi Yoga, Abhyuthana and other programmes.
- Birla Auditorium (donated by Late Sri G.D. Birla) with 1200 seating capacity for cultural activities and public functions.
- 15 Seminar Halls with audio-visual facilities for lectures and seminars.
- Board room for meetings.
- State-of-the-art Media Centre for conferences.
- Boys Amenities Centre.
- Girls' Amenities Centre.
- Post Office, Bank, ATM, Co-operative Society and Canteen.

Future Plans

- To get ABET accreditation.
- To become one of the leading Deemed Universities.
- To start Centres of Excellence in all the departments.
- To pursue applicable research in the areas of all programmes.
- To establish TBI and encourage start-ups.



Kennedy Guest House



Girls' Amenities Centre



Department of Training & Placement

SIT has a full-fledged Department for Training and Placement. SIT is one of the first few institutions among the affiliated colleges of the Visvesvaraya Technological University to establish a full-fledged **Training and Placement Department** with a Senior Professor as its head. The department caters to the following functions :

1. Contacting industries and inviting them for campus recruitment.
2. Organising personality development, communication skills, analytical skills aptitude test and industrial orientation programmes for students.
3. Industry institution interaction programmes.
4. Assisting for vocational training for students.
5. Assisting various departments in arranging internship for students.

Training Programmes conducted regularly at SIT are as follows :

I/II Semester :

Communicative English Programme :

- From the academic year 2011-12, **Communicative English** has been introduced in the curriculum as a mandatory subject. The syllabus of communicative English for I / II semester students is thoroughly revised and tuned to the present day business requirements. The course content consists of 2 parts namely, Classroom lectures of 24 hours and Lab component of 24 hours of self study with online course developed by Cambridge ESOL of Cambridge University which is made available to all students. It is a credit subject with 2 credits from the academic year 2008-19 onward.

Language Learning Laboratory :

- An exclusive Language Learning Laboratory has been established. The laboratory provides training facility for students to improve their language and communication skills.
- The laboratory is equipped with 80 computer systems with access to web application and self learning English Language Software.
- All first year engineering students undergo 24 hours of practical training in English lab under the guidance of a qualified English Language trainer in addition to 24 hours of interactive class room lectures in Communicative English.

II Semester :

Feel Employable Programme :

- A three-day orientation programme focusing on oral and written communication, public speaking, group discussion, building self esteem, mind skill development, biodata preparation, comprehension using effective criticism, application writing and team building.

V Semester :

Training Programme on Soft-skills :

- From the academic year 2013-14, **Soft Skills** has been introduced as a mandatory subject. It is a 36 hours programme focusing on training students in soft-skills such as interpersonal skills, leadership skills, time management, business etiquette, psychological team building skills, group discussion and personal interview skills. 12 hours are allotted exclusively on Group Discussion and Interview Skills.

VI Semester :

Training Programme on Aptitude Related Analytical Skills :

- **Aptitude Related Analytical Skills** has been a mandatory course from the academic year 2010-11 and it has been made a **CREDIT SUBJECT from 2018-19 academic year**. The expert trainer groups are conducting these classes as per the prescribed syllabus. It is a 36 hours programme focusing on training students in solving logical, quantitative reasoning, general and technical aptitude tests based on companies' requirement. Internal assessment tests and examinations are also conducted.

Training Programme on Advance Technical Training :

- From the academic year 2018-19, **Advance Technical Training** has been introduced for **all VI semester students of Non-IT branches as CREDIT SUBJECT**. The expert trainer groups are conducting these classes as per the prescribed syllabus. It is a 36 hours programme focusing on training students in “C, C++ and Data Structure”.

Training at Industrial Competency Lab (ICL) :

- ICL is an ongoing effort to create the application software development skills and providing industrial environment in the academic institution by imparting competencies and best practices relevant to the current industry.

Aims of Industrial Competency Lab (ICL) :

- ◆ Identifying and driving in-house projects.
- ◆ Identifying projects spanning over different domains.
- ◆ Estimated and scheduled projects.
- ◆ Building customer awareness.
- ◆ Adoption of software development life cycle.
- ◆ Usage of current technologies and tools.
- ◆ Emphasis on system architectures, designs and documentation.
- ◆ Adoption of best practices and industry standards.
- ◆ Review process.
- ◆ Monitor student activities.
- ◆ Timesheet maintenance.

During the past few years, the Training and Placement Department has been successful in getting many reputed industries for campus recruitment.

Placement details for the year 2019 are as follows :

Sl. No.	Name of the Company	No. of students selected	Sl. No.	Name of the Company	No. of students selected
1.	TATA CONSULTANCY SERVICES	187	52.	ZSCALER SOFTECH INDIA PVT. LTD.	3
2.	INFOSYS LTD.	72	53.	Y MEDIA LABS	3
3.	SLK SOFTWARE SERVICES PVT. LTD.	20	54.	THOUGHTFOCUS TECHNOLOGIES	3
4.	ARICENT	18	55.	THERMO FISHER SCIENTIFIC	3
5.	SILVERPEAK GBLOBAL PVT LTD.	16	56.	TCS-DIGITAL WORKFORCE	3
6.	QUEST GLOBAL	16	57.	TALLY SOLUTIONS PVT. LTD.	3
7.	NETCRACKER TECHNOLOGY INDIA PVT. LTD.	15	58.	SIEMENS HEALTHINEERS	3
8.	BYJUS LEARNING	15	59.	PATHPARTNER TECHNOLOGY CONSULTING	3
9.	ERNST AND YOUNG	13	60.	OPEN TEXT	3
10.	MUSIGMA BUSINESS SOLUTIONS PVT. LTD.	12	61.	ONE TRUST PRIVACY MANAGEMENT SOFTWARE	3
11.	SOCIETE GENERALE	10	62.	MPHASIS LIMITED	3
12.	SHRIRAM GROUPS	10	63.	MICROSOFT CORPORATION	3
13.	JP MORGAN CHASE & CO	9	64.	LASTMINUTE.COM (INTERNSHIP)	3
14.	GOKALDAS EXPORTS LIMITED	9	65.	HID INDIA PVT LTD (INTERNSHIP)	3
15.	ACCORD SOFTWARE SYSTEMS PVT. LTD.	9	66.	HASHEDIN TECHNOLOGIES	3
16.	TATA ELXSI (INDIA) LTD.	8	67.	FLSMIDTH PRIVATE LIMITED	3
17.	SHELL INDIA MARKETS PVT. LTD., SBO	8	68.	CISCO SYSTEMS (I) PVT LTD.	3
18.	MYLAN LABORATORIES LIMITED	8	69.	CAPILLARY TECHNOLOGIES	3
19.	WIPRO TECHNOLOGIES LTD.	7	70.	AVANTI FELLOWS	3
20.	VALUE LABS	7	71.	ARVIND INTERNET	3
21.	SIEMENS LTD.	7	72.	ALLGO EMBEDDED SYSTEMS PVT LTD.	3
22.	SCIENTIFIC GAMES	7	73.	ZS ASSOCIATES	2
23.	REDBUS IN IBIBO GROUP	7	74.	TAJ HOTELS	2
24.	NINJACART	7	75.	ONEDIRECT	2
25.	INCTURE TECHNOLOGIES	7	76.	NIKHIL ANALYTICS	2
26.	CGI INFORMATION SYSTEMS	7	77.	MICROPACK PVT LTD	2
27.	TARGET CORPORATION	6	78.	MERCEDES-BENZ R AND D INDIA PVT. LTD.	2
28.	SONY INDIA SOFTWARE CENTRE	6	79.	INFORMATICA	2
29.	SHAHI EXPORTS PVT. LTD	6	80.	DYNAPAC ROAD CONSTRUCTION	2
30.	NTT DATA GLOBAL DELIVERY SERVICES	6	81.	BHARAT FORGE LTD.	2
31.	MISTRAL SOLUTIONS PVT. LTD.	6	82.	ARRIS GROUP INDIA PVT LTD	2
32.	MIQ DIGITAL INDIA PVT LTD.	6	83.	ALTIMETRIK INDIA PRIVATE LIMITED	2
33.	MINDTREE CONSULTING PVT LTD.	6	84.	MERCEDES-BENZ R AND D INDIA PVT. LTD.	2
34.	LOWE'S INDIA (INTERNSHIP)	6	85.	FLOW SERVE	2
35.	KPIT TECHNOLOGIES LTD.	6	86.	VEONEER INDIA PRIVATE LIMITED	1
36.	ALSTOM GROUP	6	87.	TRIPHASE TECHNOLOGIES (P) LTD.	1
37.	STATE STREET SERVICES INDIA PVT. LTD.	5	88.	TEJAS NETWORKS LIMITED	1
38.	SPERIDIAN TECHNOLOGIES	5	89.	TATA TECHNOLOGIES	1
39.	SABRE CORPORATION	5	90.	SYSTEM CONSULTANT INFORMATION INDIA LTD.	1
40.	OMICS INTERNATIONAL PVT. LTD	5	91.	SIMEIO SOLUTIONS	1
41.	JUNIPER NETWORKS	5	92.	SASKEN COMMUNICATION TECHNOLOGY	1
42.	HEIDELBERG CEMENTS LTD.	5	93.	POWER RESEARCH N DEVELOPMENT CONSULTANTS PVT. LTD.	1
43.	ETHNUS CONSULTANCY SERVICES	5	94.	ORACLE CLOUD SERVICES	1
44.	BRILLIO TECHNOLOGIES	5	95.	NUTANIX	1
45.	MANHATTAN ASSOCIATES, INC.	4	96.	L&T TECHNOLOGY SERVICES	1
46.	INDIA SHELTER	4	97.	GE DIGITAL (INTERN HIRES)	1
47.	IMPACT ANALYTICS INDIA PVT. LTD.	4	98.	EVIVE SOFTWARE ANALYTICS PVT. LTD.	1
48.	GODREJ AGROVET LIMITED	4	99.	ATKINS GLOBAL	1
49.	GLOBAL EDGE	4			
50.	COGNIZANT	4			
51.	ABB THRU IDEAS ENGINEERING	4			
				TOTAL	740

Branch-wise placement details for 2019 outgoing batch students :

Sl. No.	Branch	No. of Offers	Sl. No.	Branch	No. of Offers
1.	UG PROGRAMMES		11.	Civil Engineering	19
2.	Computer Science & Engineering	174	12.	Architecture	01
3.	Information Science & Engineering	76		PG PROGRAMMES	
4.	Electronics & Communication Engineering	128	12.	Master of Computer Application	09
5.	Telecommunication Engineering	39	13.	M.Tech. - Computer Science & Engineering	06
6.	Electronics & Instrumentation Engineering	45	14.	M.Tech - Computer Network Engineering	03
7.	Electrical & Electronics Engineering	43	15.	M.Tech. - Digital Communication Engineering	02
8.	Mechanical Engineering	126	16.	M.Tech. - Power Electronics	03
9.	Industrial Engineering & Management	43	17.	M.Tech. - VLSI Design & Embedded Systems	02
10.	Chemical Engineering	12			
	Biotechnology	09		Total	740



Department of Civil Engineering

Year of Establishment : 1963

Courses Offered :

UG Programme :

B.E. Civil Engineering

PG Programmes :

M. Tech. - Structural Engineering

M. Tech. - Transportation Engg. & Management

M.Sc. Engineering by Research

Ph.D. Programme :

Ph.D. in Civil Engineering

Vision of the Department :

To become a premier Civil Engineering Department offering excellent engineering education in design methods and advanced technologies to the students, to pursue research in thrust areas and to offer professional services to the society.

Mission of the Department :

The Department is committed to develop competent professionals by offering need based curriculum in Civil Engineering areas, promoting research and innovation to prepare the students for higher study, life-long learning and societal responsibility. The department is also committed to provide good learning environment to develop professional ethics and skills in our students and to provide engineering services to the society.

Programme Educational Objectives (PEOs) :

UG B.E. Civil Engineering :

PEO#1. Graduates of the programme will practice Engineering profession as competent professionals using state-of-the-art knowledge and technical skills [Theme: Practice Engineering profession as competent professionals]

PEO#2. Graduates of the programme will excel in higher education and pursue life-long learning. [Theme: Higher education and life-long learning]

PEO#3. Graduates of the programme will exhibit leadership qualities, communication skills and team spirit [Theme: Communication and team work]

PEO#4. Graduates of the programme will practice their profession with social and ethical responsibilities. [Theme: Initiated to Society and ethical practice]

PG M.Tech. Structural Engineering :

PEO#1. Graduates of the programme will serve as executives or senior managers in structural design firms, construction and rehabilitation organizations.

PEO#2. Graduates of the programme will pursue teaching as career.

PG M.Tech. Transportation Engg. & Management :

PEO#1. Graduates of the programme will pursue career as executives/managers in highway construction, highway and transportation planning and management agencies, design agencies engaged in pavement mix and design, traffic planning and regulatory organizations.

PEO#2. Graduates of the programme will pursue teaching as career.

Short Range Goals :

- ♦ To ensure the academic success of every student and to prepare them for careers in Industry and Academia and to ensure placements for all students.
- ♦ To undertake joint ventures with the Industry, Institutes of higher learning, R&D organizations and other stakeholders.
- ♦ To organize faculty development programmes for improving the knowledge base of faculty members.
- ♦ To ensure that all the faculty members pursue fundamental/applied research and publish at least one publication per faculty every year in International / National Journals.
- ♦ To promote industry-institute and professional society activities.
- ♦ To obtain NBA accreditation of UG and PG programmes.
- ♦ To continuously upgrade the physical and laboratory infrastructure.

Long Range Goals :

- ♦ To establish an advanced centre in Earthquake Engineering area.
- ♦ To establish Skill Development Centre to train students and unemployed youths.
- ♦ To obtain NABL Accreditation for selected laboratories.
- ♦ To start a Continuing Education Centre for working professionals.

Facilities :

Experimental Facilities :

- ♦ Cyclic Triaxial Testing Facility
- ♦ Repeated Load Test Facility (RLT)
- ♦ Seismic Cone Penetrometer (SCPT)
- ♦ Field Cone Penetrometer Test facility
- ♦ Rapid Chloride Permeability Test (RCPT) apparatus
- ♦ Accelerated Electro-Chemical Corrosion Test facility
- ♦ High Speed Data Acquisition system
- ♦ 250 kg capacity pan mixer
- ♦ Dynamic Shear Rheometer

- ◆ Bump integrator
- ◆ Model tank for foundation and pavement studies
- ◆ Large scale flume for erosion and scour studies
- ◆ Total Stations - 10 Nos.
- ◆ UTM's - 2 Nos.
- ◆ Mini Shake table and data acquisition system
- ◆ Geotextile and geosynthetics test facilities

Computational Facilities :

- ◆ Two full fledged computer laboratories with 40 PCs in each laboratory
- ◆ Licensed version of the following software with multiple user options.
 - SAP
 - E-tabs
 - Stad Pro
 - PFC 2D
 - Geo Studio
 - FLAC 3D
 - Mx Roads
 - Primavera

Laboratory Facilities :

The Department has excellent facilities for teaching, research and consultancy activities in various laboratories. The laboratories in the department are as follows.

- ◆ **Structural Engineering Laboratories :**
 - Building Materials Laboratory - I
 - Building Materials Laboratory - II
 - Structures Laboratory
 - Dynamics Laboratory
- ◆ **Geotechnical Engineering Laboratories :**
 - Geotechnical Laboratory
 - Advanced Geotechnical Laboratory
- ◆ **Fluid Mechanics Laboratory**
- ◆ **Transportation Engineering Laboratories :**
 - Highway Materials Laboratory
 - Pavement Evaluation Laboratory
- ◆ **Environmental Engineering Laboratory**
- ◆ **Survey Laboratory**

Research Activities :

Areas of Research :

- Geotechnical Earthquake Engineering (Liquefaction studies, Dynamic properties, Seismic vulnerability and Ground response analysis)

- Numerical modeling of materials
- Cement replacement materials
- Alternative binder systems for concrete
- Ground improvement and Soil pollutant Interaction
- Pavements: Materials, testing, evaluation and design
- Sediment Transport and erosion studies

Sponsored Research Projects :

Completed :

1. "Evaluation of liquefaction potential based on cone penetration resistance and shear wave velocity"
 Amount : Rs. 31.67 lakhs
 Funding Institution : Ministry of Earth Sciences, Govt. of India
 Principal Investigator : Prof. S.V. Dinesh, Professor & Head, Dept. of Civil Engg., S.I.T.
 Co-Principal Investigator : Prof. T.G. Sitharam, Professor, Dept. of Civil Engg., IISc, Bangalore.
 Project Period : Sept. 2006 - Sept. 2011
2. Investigation on repair and retrofitting of concrete structures using advanced concretes, such as self compacting concrete and geo-polymer concrete.
 Amount : Rs. 6.50 lakhs
 Funding Institution : VTU, Belgaum
 Principal Investigator : Prof. K.P. Shivananda
 Co-Principal Investigator : Prof. S.V. Dinesh
 Project Period : 3 years (2012-2015)
3. Liquefaction potential of Sand-clay Mixtures.
 Amount : Rs. 5.00 lakhs
 Funding Institution : AICTE
 Principal Investigator : Prof. S.V. Dinesh
 Co-Principal Investigator : Sri Muttanna S. Balreddy
 Project Period : 3 years (2013-2016)

Ongoing :

1. Feasibility study on the development of Technology to treat Fluoride contaminated water for drinking in parts of Tumkur District of Karnataka.
 Amount : Rs. 44.10 lakhs
 Funding Institution : DST
 Principal Investigator : Dr. V. Udayakumar
 Co-Principal Investigator : Dr. Nandeeshha
 Project Period : 2 years
2. An Assessment of Aquifer Characteristics and Hydrochemistry of Ground Water using Isotopes techniques in Pavagada Taluk of Tumkur Dist., Karnataka.
 Amount : Rs. 20.00 lakhs
 Funding Institution : VGST
 Principal Investigator : Dr. Nandeeshha
 Project Period : 2 years

No. of Ph.Ds. produced	: 10
No. of M.Sc. (Engg.) produced	: 01
No. of Research Scholars Ph.D.	: 06
M.Sc. (Engg.)	: 02



Bump Integrator and Merlin Equipment

Research Publications (2010-11 onwards) :

National Conference	: 77
International Conference	: 101
National Refereed Journal	: 10
International Refereed Journal	: 28

Consultancy and Testing :

The department is actively involved in consultancy and testing in the following areas :

Testing Services :

- Testing of Geomaterials, concrete, steel, building blocks, pavers and highway materials
- Water quality analysis
- Land surveying

Consultancy Services :

- Seismic safety analysis of slopes and dams
- Quality auditing of bridges using non-destructive and semi-destructive tests
- Testing and evaluation of building blocks and pavers
- Concrete mix design studies
- Verification of structural design and load testing of structural members
- Pavement : Material characterization, evaluation and design
- QA and QC of Civil Works

MoUs :

The Department has MoUs with the following institutes / industries.

1. Nashanto, Bangalore
2. Ultra Tech Cement Ltd, Bangalore
3. Chetana Engineering Services Pvt. Ltd, Bangalore
4. MEDINI, Bengaluru (an authorized training and certification centre for Autodesk)
5. Sarathy Geotech and Engineering, Bangalore

Awards and Accolades (Faculty & Students) :

Faculty :

- ♦ **Muttana S Balreddy**, Assistant Professor received **International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) Foundation Award**, City University, Northampton Square London, EC1V0HB, UK for the year 2015.
- ♦ **Dr. S.V. Dinesh & Muttana S Balreddy**, received **"ISET V.H. Joshi" Best Paper Award** for the journal paper from Indian Society for Earthquake Technology, Roorkee during December 2018.

Students :

Best M. Tech. Project Award :

1. **Mr. K.N. Ashwin** (Structural Engg.) received **"Sundaram Merit Award"** for best M.Tech Dissertation titled **"Static and Vibration of Skew Slab Bridge Decks"** by Association of Consulting Civil Engineers (India), Bangalore during 2011 - 12.
2. **Mr. Ajith Kumar. R.**, (Structural Engg.) received **"Sundaram Merit Award"** for best M.Tech Dissertation titled **"Study on the effect of construction scheme on structural behaviour of a typical single cell post tensioned concrete box girder bridge"**, for the year 2015.

Student Merit Award :

1. **Mr. Sunil Kumar. B.N.** B.E. Civil Engg., received **"Student Merit Award"** from Association of Consulting Civil Engineers (India), Bangalore during 2012 13.
2. **Mr. Vikas. S.R.**, B.E. Civil Engg., received **"Student Merit Award"** from Association of Consulting Civil Engineers (India), Bangalore during 2013-14.
3. **Ms. Bhagyalakshmi. H.**, B.E.Civil Engg., received **"Student Merit Award"** from Association of Consulting Civil Engg (India), Bengaluru for the year 2015.
4. **Mr. Sharanagouda**, B.E.Civil Engg., received **"Student Merit Award"** from Association of Consulting Civil Engg (India), Bengaluru for the year 2017.

Best Project of the Year (2010-11)

Gurudath. N (1SI07CV019), Madhu. M.S (1SI07CV026), Suhas. S (1SI07CV052) and Vijaya Kumar. R (1SI07CV058) of VIII sem. B.E. got **Best Project of the Year (Seminar)** for the project titled **"Measurement and Control of Flow through Box Culvert as Canal Outlet"** from Karnataka State Council for Science and Technology (KSCST), IISc., Bangalore on 20th August 2011.



Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Prof. K.P. Shivananda , M.E., Ph.D. Professor and Principal	Construction Technology
2.	Prof. S.V. Dinesh , M.E., Ph.D. Professor & Head	Geo-Technical Engg.
3.	Prof. N.M. Thipperudrappa , M.Tech., Ph.D. Professor	Water Resources
4.	Prof. Nandeesh , M.Sc., Ph.D. Professor	Geology
5.	S.M. Maheswarappa , M.E. Associate Professor	Structural Engg.
6.	M.N. Shivakumar , M.E. Associate Professor	Highway Engg.
7.	S. Suresh , M.E. Associate Professor	Pre-Stressed Concrete
8.	Mallikarjuna Hiremath , M.Tech. Associate Professor	Transportation Engg.
9.	Dr. G. Veerappa Devaru , M.E., Ph.D. Associate Professor	Water Resources
10.	Dr. T.S. Umesha , M.E., Ph.D. Associate Professor	Geo Envi. Engg.
11.	Dr. B.G. Shivaprakash , M.E., Ph.D. Associate Professor	Geo-Technical Engg.
12.	K.M. Mallesha , M.E., Associate Professor (Pursuing Ph.D.)	Highway Engg.
13.	G.S. Shashidhara , M.E. Associate Professor	Construction Technology
14.	H. Devasharma , M.Tech. Assistant Professor	Environmental Engg.
15.	Dr. Muttana S. Balreddy , M.E., Ph.D. Assistant Professor	Foundation Engg.
16.	M.S. Ravikumar , M.Tech. Assistant Professor	Structural Engg.
17.	Dr. Siddesha. H. , M.Tech., Ph.D. Assistant Professor	Structural Engg.
18.	K.N. Ashwin , M.Tech. Assistant Professor (Pursuing Ph.D.)	Structural Engg.
19.	Dr. K.H. Mamatha , M.Tech., Ph.D. Assistant Professor	Transportation Engg.

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Sep. 07-14, 1991	Engineering Mechanics
2.	June 14-19, 1993	Strength of Materials
3.	Aug. 16-21, 1993	Computer Oriented Numerical Techniques
4.	Jan.17-22, 1994	Fluid Mechanics
5.	July 02-09, 1994	Environmental Engineering
6.	Mar. 01-09, 1995	Finite Element Method
7.	Sep. 04-09, 1995	Finite Element Method and its Applications
8.	Mar. 04-09, 1996	Special Concretes
9.	July 08-13, 1996	Geo-technical Engineering
10.	Jan. 06-11, 1997	Transportation Engineering - I
11.	Aug. 03-09, 1997	Transportation Engineering - II
12.	Mar.09-14, 1998	Computer Aided Civil Engineering Design
13.	Aug. 17-22, 1998	Computer Aided Drawings for Civil Engineers
14.	Feb. 08-13, 1999	Modern Methods in Construction Management
15.	Sept. 14-19, 1999	Recent Trends in Design of REE and PSC Structures
16.	Apr. 13-15, 2001	Internet Technology
17.	Aug. 26-31, 2002	Applications of remote sensing and GIS
18.	Feb. 23-28, 2003	Earthquake response of ground and structures
19.	Aug. 21-27, 2003	Methodologies and codal provisions for testing of Civil Engg. Materials.
20.	Jan 16-18, and Feb. 05-07, 2004	FEA based application to Civil Engg. NISA & STAAD
21.	Aug.23-28,2004	HYDRO SCIENCE
22.	Feb. 27-Mar 04, 2005	Computer aided drafting
23.	Aug. 17-23, 2005	Probability Theory
24.	Feb. 06-11, 2006	Software application in structural engineering
25.	Aug. 07-12, 2006	Recent Developments in Steel Structures
26.	Jan 29-Feb. 03, 2007	Inhouse professional Development Programme
27.	Aug. 05-11, 2007	Academic Autonomy
28.	Jan 28-Feb. 02, 2008	Geoinformatics
29.	Aug. 01-07, 2008	Geoinformatics - Total Station
30.	Jan. 19-24, 2009	AutoCAD and Total Station
31.	Jan. 24-27, 2010	Modern Trends in Civil Engg.
32.	Jan. 20-27, 2011	Modern Trends in Surveying using Total Station
33.	June 25, 2011	Curriculum Dev. by Dr. N.J. Rao
34.	June 27-29, 2011 June 27, 2011	Pedagogy Research Initiatives & Accreditation Process by Sri Brahmam
	June 30, 2011	Microteaching
35.	June 25-30, 2012	Statistical Application in Civil Engg.
36.	Jan. 02-07, 2013	Advance Surveying using Total Station and GPS
37.	Nov. 24-27, 2015	Building information and Modeling (Phase-I)
38.	July 14-19, 2016	Building information and Modeling (Phase-II)
39.	Dec. 21-26, 2016	ICT for Teaching
40.	July 24-29, 2017	Project Management
41.	April 21-26, 2018	AutoCAD Civil3D
42.	April 22-27, 2019	Repair & Rehabilitation of Structures

Advisory Board

An advisory board with the following experts is constituted to guide the department in research and other developmental activities.

- Chairman** : **Prof. S.V. Dinesh**
Prof. & Head
Dept. of Civil Engineering, S.I.T., Tumkur.
- Convener** : **Prof. N.M. Thipperudrappa**
Professor
Dept. of Civil Engineering, S.I.T., Tumkur.

Members :

1. **Dr. M. Manjuprasad**
Chief Scientist, Structures Division
NAL, Bengaluru
2. **Prof. R.V. Ranganath**
Professor, Dept. of Civil Engineering
BMSCE, Bengaluru
3. **Prof. L. Govindaraju**
Professor, Dept. of Civil Engineering
UVCE, Bengaluru
4. **Sri T.R. Lokesh**
Director
Infra Support Engineering Consultants Pvt. Ltd., Bengaluru
5. **Sri S.M. Maheswarappa**
Associate Professor
Dept. of Civil Engineering, S.I.T., Tumkur.
6. **Sri M.N. Shivakumar**
Associate Professor
Dept. of Civil Engineering, S.I.T., Tumkur.



Survey Practice



Advanced Geotechnical Engineering Lab



Hydraulic & Hydraulic Machineries Laboratory



Department of Mechanical Engineering

Year of Establishment : 1963

Courses Offered :

UG Programme :

B.E. Mechanical Engineering

PG Programmes :

M.Tech. - Thermal Power Engineering

M.Tech. - Manufacturing Science & Engineering

Ph.D. Programme :

Department is recognized as Research Centre by Visvesvaraya Technological University for offering M.Sc.(Engg.) and Ph.D. programmes.

Mission :

To offer quality education to our students in the fundamentals and emerging areas of mechanical engineering so that they emerge as competent engineers and support technological development and innovation to meet the societal needs.

Short Range Goals :

- ◆ Starting new PG courses
- ◆ Improving Ph.D. guidance
- ◆ Improving the Industry-Institute-Interaction and placement
- ◆ Curriculum up-gradation as per the industry requirements
- ◆ Motivate the students to take up competitive exams
- ◆ Actively participate in professional body activities
- ◆ Conduct National and International Conferences
- ◆ Organize certification courses, technical talks & FDPs.

Long Range Goals :

- ◆ To establish Centre of Excellence (CoE) in the areas of Advanced Materials and Bio-fuels
- ◆ Improvement of existing R & D facilities
- ◆ Securing sponsored research projects with a grant of at least 10.00 crore in 5 years.
- ◆ Undertaking consultancy and R & D projects
- ◆ Upgrade the department to the NIT level

Facilities :

1. Optical Microscopes Magnification upto 2000X
2. Zwick Micro Hardness Testing Machine.
3. Zwick Rockwell Hardness Testing Machine.
4. Zwick Brinell Hardness Testing Machine.
5. Resistance Furnaces.
6. Induction Furnace upto 2000°C Maximum
7. Four Stroke 4 Cylinder Diesel Engine with Computer Interface.
8. Corrosion Analysis Potentiometer [ACGill', UK]
9. Four Stroke Single Cylinder Petrol Engine with Computer Interface.
10. Four Stroke Three Cylinder Petrol Engine with Computer Interface.
11. Composite preparation furnace with stirrer attachment.
12. CNC Lathes.
13. 6 axis articulate Robot.
14. Latest Analysis Softwares like ANSYS, CATIA, ANSA etc.

Research Projects : Completed / Ongoing

1. "Corrosion Behavior of Turbine Blade Materials"

Amount : Rs. 9.35 lakhs
 Funding Institution : GTRE
 Principal Investigator : Dr. U.S. Mallikarjun
 Professor, Dept. of Mechanical Engg.



CAED Lab



Engines Lab

2. "Synthesis and Characterization of Cu-Al-Mn Shape Memory Alloys for Damping Characteristics in Super elastic range"

Funding Institution : VTU, Belgaum
Amount : Rs. 12.00 Lakhs
Principal Investigator : Dr. U.S. Mallikarjun
Co-principal Investigator : Dr. K.V. Sreenivasa Rao

3. "Production & Applications of Bio fuel"

Funding Institution : Karnataka State Bioenergy Development Board (KSBDB)
Amount : Rs. 31.65 Lakhs
Principal Investigator : Dr. R. Suresh

4. "Karnataka Fund for Improvement of Science and Technology Infrastructure (K-FIST) in Higher Educational Institutions"

Funding Institution : VGST, Govt. of Karnataka
Amount : Rs. 20.00 Lakhs
Principal Investigator : Dr. U.S. Mallikarjun
Co-principal Investigator : Dr. K.V. Sreenivasa Rao

5. "High Temperature Superconducting Energy Storage technique for use in Distributed Generation System (Flywheel Energy Storage System)"

Funding Institution : CPRI, New Delhi
Amount : Rs. 9.50 Lakhs
Principal Investigator : Dr. K.V. Sreenivasa Rao
Co-principal Investigator : Dr. U.S. Mallikarjun

6. "Modernization and Removal of Obsolescence Scheme (MODROBS)"

Funding Institution : AICTE, New Delhi
Amount : Rs. 8.00 Lakhs
Principal Investigator : Dr. U.S. Mallikarjun
Co-principal Investigator : Sri S. Prashanth

7. "To develop innovative products solutions for common problems faced by common man (up-gradation of R&D Centre, Dept. of Mechanical Engg., SIT Tumkur)"

Funding Institution : KCTU, Govt. of Karnataka
Amount : Rs. 38.00 Lakhs
Principal Investigator : Dr. U.S. Mallikarjun

8. "Development of Low sag Nano Composite core for High temperature power transmission"

Funding Institution : CPRI, Bangalore
Amount : Rs. 28.00 Lakhs
Principal Investigator : Dr. G.S. Shivashankar

9. "Studies on Development of 6061Al alloy reinforced with B4C particulate composites for use in small turbofan compressor modules"

Funding Institution : AR&DB, DRDO
Amount : Rs. 9.74 Lakhs
Principal Investigator : Dr. Virupaxi Auradi

10. "Modernization and Removal of Obsolescence Scheme (MODROBS)"

Funding Institution : AICTE, New Delhi
Amount : Rs. 6.25 Lakhs
Principal Investigator : Dr. K.S. Shashishekar

11. "Solar and Wind Energy Lab (MODROBS)"

Funding Institution : AICTE, New Delhi
Amount : Rs. 14.16 Lakhs
Principal Investigator : Dr. K.S. Shashishekar

12. "Effect of Silver addition on stress corrosion cracking resistance of aluminum alloy AA7085"

Funding Institution : DRDO, Govt. of India
Amount : Rs. 71.14 Lakhs
Principal Investigator : Dr. Kishore T Kashyap

Research Activities :

Areas of Research being carried out

- Synthesis and characterization of Advanced Materials, Smart Materials, Nano Materials, Composite Materials, High Temperature Materials.
- Non Conventional Energy Sources, I.C. Engines, Alternate Fuels, Nano and Smart Polymers, Fuel Cells.

Sponsored Research Projects (Ongoing) : 06
No. of Ph.Ds awarded (from the centre) : 09
No. of Research Scholars : 49

Machine Shop



Research Publications :

National Conferences	:	86
International conference	:	116
National Refereed Journals	:	14
International Refereed Journals	:	182
Patents Filed	:	18

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. U.S. Mallikarjun, M.E., Ph.D. (IIT-M), MIIM, MISSS Professor	Manufacturing Science and Engg., Smart Materials and Shape Memory Alloys
2.	Dr. G.S. Shivashankar, Professor M.Tech., Ph.D.	Production Engg. & Production System Techniques, Composite Structured Design
3.	Dr. K.S. Shashishekar Professor & Head M.Tech., Ph.D.	Thermal Engineering
4.	Dr. H.R. Purushotham Professor M.Tech., Ph.D.	IC Engines
5.	Dr. G.R. Bharath Sai Kumar Professor M.E., Ph.D.	Design Engineering
6.	Dr. R. Suresh, M.E., Ph.D. Professor	Production Management
7.	Dr. Kishore T. Kashyap, Ph.D. Professor M.E., Ph.D.	Physical Metallurgy & Nanotechnology
8.	T.C. Narendrababu, M.E. Associate Professor	Metal Casting
9.	T.S. Suresh Kumar, M.S. Associate Professor	Software Systems
10.	Dr. N.S. Ventakesh Gupta, M.Tech., Ph.D. Associate Professor	Advanced Manufacturing Engineering
11.	Dr. M. Shivashankar, Associate Professor M.E., Ph.D.	Software Systems
12.	Dr. K. Chandrappa, Associate Professor M.Tech., Ph.D.	Production Engg. & System
13.	R.S. Vijaykumar, M.Tech. Associate Professor	Heat Power Engineering
14.	Dr. C. Shashishekar, M.Tech., Ph.D. Associate Professor	PEST
15.	Dr. B. Vasudeva, M.E., Ph.D. Associate Professor	Advanced Manufacturing Engineering

Sl. No.	Name and Designation	Field of Interest/ Specialisation
16.	B.C. Suresh, M.Tech. Associate Professor	Thermal Power Engineering
17.	Dr. H.S. Shivashankar, M.E., Ph.D. Associate Professor	Design Engineering
18.	Dr. Virupaxi Auradi, M.Tech., Ph.D. Associate Professor	Composite Materials
19.	Dr. C.P. Lohith, M.E., Ph.D. Assistant Professor	Product Design and Engineering Strategy and Innovation, Entrepreneurship, Total Quality Mgmt.
20.	Dr. Nagaraju, M.E., Ph.D. Assistant Professor	Manufacturing Science & Engg.
21.	Dr. Manjunath. H., M.Tech., Ph.D. Assistant Professor	Thermal Power Engg., Alternate Fuels for IC Engines, Heat Transfer
22.	Dr. N. Shanmuga Priya, Assistant Professor M.Tech., Ph.D.	Thermal Power Engineering
23.	Dr. Prashantha. S, M.Tech., Ph.D. Assistant Professor	Machine Design, Smart Materials, SMAs
24.	Dr. Tharakeshwar. T.K, Assistant Professor M.Tech., Ph.D.	Thermal Power Engineering
25.	Sriharsha Kumar, M.Tech. Assistant Professor	Thermal Power Engineering
26.	Dr. Shivasiddaramaiah. A.G, M.Tech., Ph.D. Assistant Professor	Advanced Materials, Shape Memory Alloys, Tool Engg.
27.	Dr. Madhu. H.C., M.Tech., Ph.D. Assistant Professor	Production Engg.
28.	Dr. Gautham. M.G., M.Tech., Ph.D. Assistant Professor	Thermal Power Engineering
29.	Manjunath. C.T., M.Tech. Assistant Professor (Pursuing Ph.D.)	Production Engg.
30.	Adarsha. S.H., M.Tech. Assistant Professor (Pursuing Ph.D.)	Production Engg.
31.	Poornima. C., M.Tech. Assistant Professor (Pursuing Ph.D.)	Mechanical Engg.
32.	Dr. Arun. S.B., M.Tech., Ph.D. Assistant Professor	Thermal Power Engineering, Bio Diesel (Alternate fuel for C.I. & I.C. Engines)
33.	Dr. Vijaykumar Hiremath M.Tech., Ph.D. Assistant Professor	Machine Design / Six Sigma / Machining of Metal Matrix Composites

Sl. No.	Name and Designation	Field of Interest/ Specialisation
34.	Guruchannabasavaiah. N.G., M.Tech. Design Engineering Assistant Professor (Pursuing Ph.D.)	
35.	Omkaresh. B.R., M.Tech. Assistant Professor (Pursuing Ph.D.)	Thermal Power Engg. Bio Diesel (Alternate fuel for C.I. & I.C. Engines)
36.	Ekanthappa. J., M.Tech. Assistant Professor (Pursuing Ph.D.)	Design & Analysis (FEA) of Automobile / Aircraft Structures
37.	Bharath. H.S., M.Tech. Assistant Professor	Manufacturing Process, Material Science, Metal Cutting Tools
38.	Vineeth Kumar. T.V., M.Tech. Assistant Professor (Pursuing Ph.D.)	Machine Design, Mechanical Vibration, Finite Element Analysis
39.	Sudeepkumar. T., M.Tech. Assistant Professor (Pursuing Ph.D.)	Manufacturing Process, Tool Engg. Computer Aided Engg. Drawing
40.	Jatadhara. G.S., M.E. Assistant Professor (Pursuing Ph.D.)	Basic & Applied Thermodynamics, Heat Transfer, I.C. Engines
41.	Dr. Nitesh. K.G., Ph.D. (IITM) Assistant Professor	Thermal Engineering
42.	B. Vishwash, M.Tech. Assistant Professor	Design Engineering
43.	Sunil. B., M.Tech. Assistant Professor (Pursuing Ph.D.)	Design Engineering
44.	Naresh. H., M.Tech. Assistant Professor (Pursuing Ph.D.)	Design Engineering

2. Structure Property Correlation
3. Use of Bio-fuels in IC Engines
4. Analysis of IC Engines
5. Energy Systems
6. Heat Transfer
7. FEM/CAD/CFD analysis

Any other relevant information :

1. An International Conference on "Advanced Materials, Manufacturing and Thermal Sciences (AMMMT-2019)" will be organised during October 2019.
2. National Seminar - BIOFUEL – Opportunities and Challenges was conducted by Dept. of Mechanical Engineering, SIT, Tumkur on 16 & 17 March 2017. Convener : Dr. R. Suresh
3. The department has organized 19 Entrepreneurship Camps since 2015. Convener : Dr. C. P. Lohith
4. The Department organizes a National Level Students Technical Symposium "MOMENTUM" every year.
5. Grants of Rs. 40.00 Lakhs each to the Bio Diesel and ED Cell is awarded.
6. Training Programmes in Bio Fuels.
7. Rural projects like, Bee Keeping, Tree Plantation, Non-edible Oil Seeds Collection etc., are undertaken under the "Centre for Rural Development" programme.



Consultancy and Testing :

Department has the facilities to undertake the following consultancy activities.

1. Development and Characterization of advanced materials



Faculty Development Programmes

Sl. No.	Date	Subject
1.	Aug. 26-31, 1991	Professional Development Programme
2.	Sep. 07-11, 1992	Engineering graphics
3.	June 14-19, 1993	Control engineering
4.	Aug. 16-22, 1993	Computer oriented numerical control
5.	Jan. 17-22, 1994	Dynamics of machine
6.	July 02-09, 1994	Machine design
7.	Mar. 01-07, 1995	Metrology and quality control
8.	Sept. 04-09, 1995	CAD/CAM and robotics
9.	Mar. 04-09, 1996	Operations research
10.	July 08-13, 1996	Thermodynamics and heat transfer
11.	Jan. 06-11, 1997	Production & operations management
12.	Oct. 03-09, 1997	Material science and metallurgy
13.	Mar. 09-14, 1998	Database management systems
14.	Aug. 17-22, 1998	Programming in 'C' (Part I)
15.	Feb. 08-13, 1999	Programming in 'C' (Part II)
16.	Sep. 8-13, 1999	Autocad
17.	April 13-16, 2001	Object oriented programming using C++
18.	Sept. 3-8, 2001	Oracle-8
19.	Feb. 25-Mar. 2, 2002	Finite element methods
20.	Aug. 26-31, 2002	Mechatronics
21.	Feb. 3-8, 2003	Total quality management
22.	Jan. 24, 2003	Total quality initiative at SIT
23.	Aug. 21-27, 2003	Professional communication
24.	Jan. 16-18, 2004 & Feb. 5-7, 2004	Mechanics of Materials
25.	Aug. 23-28, 2004	Nano Technology & Applications
26.	Feb. 27-Mar. 4, 2005	Six Sigma & Design of Experiments
27.	Aug. 16-21, 2005	Mechatronics & MEMs
28.	Feb. 6-11, 2006	Finite Element Techniques
29.	Aug. 4-12, 2006	Computer Aided Engg. Drawing
30.	Jan. 29-Feb. 03, 2007	Professional Development Programme
31.	Aug. 06-11, 2007	Academic Autonomy
32.	Jan. 28-Feb. 02, 2008	Computer Aided Machine Drawing
33.	Aug. 01-07, 2008	CAED, CAMD using Smart Board and Foundry Metallurgy
34.	Jan. 19-24, 2009	Computer Concepts & Office Tools
35.	June 08-13, 2009	Advanced Materials and Materials Processing
36.	Dec. 14-18, 2009	Materials and Processing
37.	Jan. 24-30, 2010	Advance in IC Engine Technology
38.	June 25-30, 2010	P.C. Hardware & Maintenance
39.	Jan. 20-27, 2011	Nano Materials
40.	July 20, 2011	The World Today & Tomorrow - The Energy Challenge
41.	June 2012	CATIA & Hypermesh
42.	June 24-29, 2013	MATLAB
43.	Aug. 20-24, 2013	Industrial Tribology
44.	Nov. 23-28, 2015	Computational Fluid Dynamics
45.	June 17-19, 2015	Modeling & Simulation of Manufacturing Systems
46.	Sept. 23-24, 2016	AMMMT-2016
47.	Dec. 21-25, 2016	Lab View & 3-D Modeling using Solid Works
48.	March 06-11, 2017	Latest drifts in Mechanical Engineering
49.	April 21-26, 2018	Industrial Automation & Mechatronics
50.	April 22-27, 2019	NBA Specific Outcome Based Education

MoUs :

Department has MoU with reputed Industries, Academic Institutions and the following R & D Labs.

1. CPRI, Bangalore
2. NITK, Surathkal
3. VIT, Vellore
4. Shanthala Foundries, Shimoga
5. M/S Fitwel Tools & Forgings Pvt. Ltd., Tumkur
6. Foreman Training Institute, Bangalore
7. Vishnu Forge Industries Ltd., Bangalore
8. Avasarala Technologies Ltd., Bangalore
9. Bangalore Integrated System Solutions, Bangalore
10. Megamiles Bearing Cups Pvt. Ltd., Bangalore
11. Kshema Technologies Ltd., Bangalore
12. Winyasa Technologies, Tumkur
13. Centura Watch Cases Pvt. Ltd., Tumkur
14. CMTI, Bangalore

Advisory Board

Chairman :

Dr. K.S. Shashishekar

Head of the Department, Mechanical Engg., SIT, Tumkur.

Experts from Industries :

Dr. H. Sundaramurthy

MD, FENFE Metallurgicals, Bangalore (VTU Nominee)

Dr. Shivamurthy

Scientist, GE, Bangalore

Experts from Academic Institutions :

Dr. Jagadeesh

Dept. of Aeronautical Engg., IISc, Bangalore

Dr. V. Sampath

Dept. of Metallurgical & Materials Engg., IITMadras, Chennai

Dr. Mohan Kumar G C

Professor, Dept. of Mechanical Engg., NITK, Surathkal

Dr. Prabhuswamy

Professor, Dept. of Mechanical Engg., SJCE, Mysore

Dr. B. M. Nandeeshah

Principal, Kalpatharu Institute of Technology, Tiptur

Dr. S. Sreenivas

Professor, Dept. of Mechanical Engg., BMSCE, Bangalore

Dr. Seetharamu

Former Director, CPRI, Bangalore

Dr. Kishorekumar

Former Additional Director, Scientist G, GTRE, DRDO Bangalore

Internal Members :

Dr. U.S. Mallikarjun (Convener)

Dr. G.S. Shivashankar

Dr. R. Suresh

Dr. H.R. Purushotham

Dr. G.R. Bharath Sai Kumar

Dr. B. Vasudeva

CAD / CAM Laboratory





Department of Electrical & Electronics Engg.

Year of Establishment : 1963

Courses Offered :

UG Programme :

B.E. - Electrical & Electronics Engineering

PG Programme :

M.Tech. - Power Electronics

M.Sc. (Engg.) by Research & Ph.D. Programmes :

Department is recognized as Research Centre by Visvesvaraya Technological University for offering M.Sc. (Engg.) by Research & Ph.D. programmes.

Mission :

To respond to the technical needs of the students and society in the field of Electrical Engineering by providing an effective teaching-learning environment designed to enhance professional competence and personal skills.

Short Range Goals :

- ◆ To train students as competent Electrical & Electronics Engineers to meet the requirements of the industries.
- ◆ To improve placement of students.
- ◆ To enhance interaction with industries.
- ◆ To strengthen the alumni linkage for mutual benefit.
- ◆ To organize bridge courses in areas relevant to industries.
- ◆ To motivate the faculty to undertake research work.
- ◆ To depute the faculty and students for inplant training to industries during vacation.
- ◆ To train the supporting technical staff.

Long Range Goals :

- ◆ To create a research base.
- ◆ To enhance institute - industry interaction.
- ◆ To augment the expertise in cutting-edge technologies.
- ◆ To have at least 75% of faculty with Ph.D by 2022.

Facilities :

Basic Electrical Laboratory :

- Three phase Induction Motor modules - 2 Nos.
- D.C. Shunt Motor modules - 2 Nos.
- Single phase Transformer modules - 2 Nos.
- Two way & Three way control modules - 2 Nos.

- Star-Delta connection modules - 2 Nos.
- KVL-KCL verification modules - 2 Nos.
- Impedance calculation modules - 2 Nos.

Electrical Machines Laboratory :

It has 23 rotating machines which include AC Motors/ DC Motors, generators and special machines, seven transformers.

Power Electronics Laboratory :

It is well equipped with different models for the study of speed control of motors using converters, choppers, inverters etc. The laboratory covers experiments on different types of commutation circuits. These are supplemented by apparatus for the study of the characteristics of SCR, FET, MOSFET, IGBT.

Control Systems & DSP Laboratory :

It is well equipped to conduct experiments on closed loop speed control of AC and DC motors. Facilities are available to study the performance of PID controllers, Phase lag and lead controllers. Scilab software is used for DSP applications.

Digital Electronics Laboratory :

The trainer kits have been procured to facilitate effective conduction of the laboratory as per the curriculum and Verilog is introduced to make students to learn hardware description language.

Analog Electronics Laboratory :

It is well equipped with CROs, Power Supplies, Signal Generator etc. to conduct experiments related to Analog Electronics and Linear Integrated Circuits.

Power System Simulation Laboratory :

It is equipped with 26 computers and Mi-power software simulation tool. Simulation studies are carried out on load flow studies, short circuit studies, optimal operation of power systems, relay co-ordination, stability studies etc. Internet facility to all the computers through 250 Mbps leased line is provided.

Relay and High Voltage Laboratory : It has

- Electromechanical relays, Directional over current relay, under voltage relay and earth fault relay.
- Microprocessor based under voltage & over voltage relay.

- Differential protection of transformer using numeric relay.
- Over current and directional over current, under voltage, reverse power, numeric relays.
- Feeder protection panels.
- Facility for generating 100 kV AC/140kV DC / 140 kV (peak) impulse.

Computer Laboratory :

- No. of Computers - 36
- HP Laser Printers - 05
- HP Laptop - 03
- LCD Projectors - 04
- dSpace Kit - 01
- Licensed Softwares :
Mipower Package (6 user license), AutoCAD Electrical 2008 (30 user license), Altium-10, ORCAD PSPICE (Student Version), PSIM (10 user License), PSCAD, JMAG.

Renewable Energy Laboratory :

It has “Solar Training Module” provides the performance evaluation of Solar PVcell under different environmental conditions.

Power Electronics Controller Laboratory (PG) :

- Single phase PWM Inverter module
- Three phase PWM Inverter module
- Single phase Bridge Rectifier module
- Three phase Bridge Rectifier module
- Four-Quadrant Converter module
- IGBT/MOSFET based speed control of separately excited DC motor

Research Activities :

Areas of Research being carried out

Application of nano composites.

Sponsored Research Projects (Ongoing)	: 01
No. of Research Scholars	: 03

Research Publications :

National Conferences	: 09
International conference	: 30
National Refereed Journals	: 05
International Refereed Journals	: 25

Consultancy and Testing :

- 1) Third party inspection of electrical installations in respect of Government works.
- 2) Induction Motor Rotor Testing.
- 3) Transformer Oil Testing.

MoUs :

- CPRI, Bengaluru
- Pragna Micro Designs, Bengaluru
- Universal Power Controls, Tumakuru

Awards and Accolades (Faculty & Students) :

Faculty :

- B.A. Sridhara, Associate Professor, has secured Gold (Topper) in the online course "Principles of Signals and Systems", conducted by NPTEL, during 2018.
- Rajesh Uppara, Assistant Professor, has completed online course “Design of Photovoltaics”, conducted by NPTEL during 2017.
- Rajeev B.R., Assistant Professor, has completed online course “Introduction to Smart Grid”, conducted by NPTEL during 2018.
- Rajesh Uppara & Priya S carried out a project, “Standalone Solar Powered Water Purifier for Rural Development”, under Centre for Rural Development during 2018-19.

Students :

- Divya B.H., Chitra T.N., Divyashree D. and Ramyashree M. have received financial assistance and elected for the project Exhibition under KSCST (2018-19) titled “Standalone Solar Powered Water Purifier for Rural Development” under the guidance of Rajesh Uppara and Priya S.
- Sushmitha T.V., Nesara Naik and Nuthan B.G. of M.Tech. have selected for internship and got placed at KPIT Technologies, Bengaluru during 2018-19.
- Noor Fathima, Amara Nayaka and Vasantha of M.Tech. have selected for internship at KPIT Technologies, Bengaluru during 2019-20.



Electrical Machines Laboratory



Solar Training Module



Faculty Development Programmes

Sl. No.	Date	Subject
1.	Sept. 07 - 11, 1992	Electronic Devices & Circuits
2.	June, 14 - 19, 1993	Electronic Circuits
3.	Aug. 16 - 22, 1993	Computer Oriented Numerical Analysis
4.	Jan. 17 - 22, 1994	Power Electronics
5.	July 02 - 09, 1994	Integrated Circuits & Applications
6.	March 01 - 07, 1995	Electric Circuits
7.	Sept. 04 - 09, 1995	Microprocessors - I
8.	March 04 - 09, 1996	Microprocessors - II
9.	July 08 - 13, 1996	Advanced Microprocessors
10.	Jan. 06 - 11, 1997	Power Systems
11.	Oct. 03 - 09, 1997	Power System Simulation
12.	March 09 - 14, 1998	Programming in "C"
13.	Aug. 17 - 22, 1998	Computer Application with "C"
14.	Feb. 08 - 13, 1999	Programming in C++
15.	Sept. 14 - 19, 1999	Signals and Systems
16.	April 13 - 16, 2001	MATLAB
17.	Sept. 3 - 8, 2001	Computer Communication Networks
18.	Feb. 25-Marc.3, 2002	Fuzzy Engineering
19.	Aug 26-31, 2002	Mechatronics
20.	Feb. 23-28, 2003	English & Communication Skills
21.	Aug. 21-27, 2003	DSP - 1
22.	Jan.16-18, 2004 & Feb. 05-07, 2004	Field Theory
23.	Feb.27-Mar.05, 2005	Computer Aided Electrical Drawing
24.	Aug. 17-23, 2005	MATLAB
25.	Sept. 02, 2005	Modern Control Theory
26.	Feb. 06-11, 2006	Virtual Instrumentation
27.	Aug. 07-12, 2006	Field Theory
28.	Jan. 29-Feb. 03, 2007	Professional Development Programme
29.	Aug. 06-11, 2007	Academic Autonomy
30.	Jan. 28-Feb. 02, 2008	8051 Microcontroller
31.	Aug. 28-Sep. 07, 2008	Computational Methods in Electrical Engg.
32.	Jan. 19-24, 2009	Neural Networks & Fuzzy
33.	Jan. 24-31, 2010	Analog Electronic Circuits and Linear Integrated Circuits
34.	June 25-30, 2010	Electrical AutoCAD
35.	Jan. 20-27, 2011	C Programming & MATLAB
36.	June 25-30, 2012	Embedded Systems & PCB Design
37.	June 24-29, 2013	Power Electronics & Drives
38.	July 17-20, 2015	ARM Processors
39.	Nov. 23-28, 2015	Digital Signal Controllers & PSCAD
40.	May 2016	Microcontroller & its Application
41.	July 13-19, 2016	Power Electronics Controllers, Design and Implementation
42.	December 2016	High Voltage Transmission and Distribution
43.	January 2017	Issues & Challenges in Solar and Wind Power Generation & Utilization
44.	July 23-28, 2017	ISTE STTP Electric Power Systems
45.	April 20-26, 2018	Soft Computing Applications to Electric Engineering
46.	April 22-27, 2019	Electric Drives & its Applications

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. Rashmi , M.Sc. (Engg.), Ph.D. Professor & Head	Performance evaluation of Epoxy-oMMT, Epoxy-TiO ₂ and Vinyl ester-oMMT Nanodielectrics for Electrical Applications
2.	Dr. V. Shivaprasad , M.Tech., Ph.D. Professor	Voltage Stability Assessment, Improvement and Detection of Bus Vulnerability in Electric Power Systems
3.	Dr. K.P.Shivamurthy , M.E., Ph.D. Professor	Stability of Electromagnetic Waves in Chiral Materials
4.	K.M. Chandrasekhara Swamy , M.E. Associate Professor (Pursuing Ph.D.)	Electrical Machines
5.	B.A. Sridhara , M.E. Associate Professor	Electrical Engg. (High Voltage)
6.	K.C. Rupesh , M.Tech. Assistant Professor	Computer Application in Industrial Drives
7.	S.B. Naveenkumar , M.Tech. Assistant Professor (Pursuing Ph.D.)	Computer Application in Industrial Drives
8.	Madhu B.M. , M.Tech. Assistant Professor (Pursuing Ph.D.)	VLSI Design & Embedded Systems
9.	P.K. Chandrasekhar , M.Tech. Assistant Professor (Pursuing Ph.D.)	Power Systems
10.	Dr. H.S. Sridhar , M.Tech., Ph.D. Assistant Professor	Smart Grid Applications
11.	Vinayaka. K.U. , M.Tech. Assistant Professor	Power Electronics
12.	Rajesh Uppara , M.Tech. Assistant Professor	Power Systems and Drives
13.	Manish Kumar M.Tech. Assistant Professor (Pursuing Ph.D.)	Power Electronics
14.	Narendra Babu. Y. , M.Tech. Assistant Professor (Pursuing Ph.D.)	Power Electronics
15.	Rajeev. B.R. , M.Tech. Assistant Professor	Power Systems
16.	Priya. S. , M.Tech. Assistant Professor	Power Electronics



Advisory Board

Chairman : **Dr. Rashmi**
Professor & Head
Dept. of Electrical & Electronics Engg.
S.I.T., Tumakuru.

Convener : **Mr. K.M. Chandrasekhara Swamy**
Associate Professor, Dept. of E&E
S.I.T., Tumakuru.

Members :

1. **Prof. Tukaram**
Former Professor
Dept. of Electrical Engg., IISc, Bangalore
2. **Prof. B.G. Fernandes**
Professor
Dept. of Electrical Engg., IIT, Mumbai
3. **Dr. J. Sundara Rajan**
Former Additional Director
R&D Head, CPRI, Bangalore
4. **Dr. P. Balaraman**
Chief General Manager
PRDC Pvt. Ltd., Bangalore
5. **Dr. A. Rama Rao**
Executive Director
APGENCO, Andhra Pradesh
6. **Mr. B.A. Sridhara**
Associate Prof., Dept. of E&E. SIT, Tumakuru
7. **Dr. K.P. Shivamurthy**
Professor, Dept. of E&E. SIT, Tumakuru
8. **Dr. V. Shivaprasad**
Professor, Dept. of E&E. SIT, Tumakuru



Power Electronics Laboratory





Department of Electronics and Communication Engineering

Year of Establishment : 1967

Course Offered :

UG Programme :

Electronics & Communication Engineering

PG Programme :

M. Tech. - Signal Processing

Ph.D. Programme :

Ph.D. in Electronics & Communication Engg.
(Recognised as Research Centre by VTU)

Mission of the Department :

To provide a congenial environment for superior learning experience and offer high quality education relevant to the current and future needs of the society and careers of students in the field of Electronics and Communication Engineering.

Short Range Goals :

- ◆ To arrange special lectures from experts on regular basis.
- ◆ To arrange industrial visits.
- ◆ To depute faculty for Ph.D to institutes of higher learning.
- ◆ To strengthen interaction with alumni.
- ◆ To give in-plant training to students and faculty.
- ◆ To augment submission of project proposals to funding agencies.

Long Range Goals :

- ◆ To create a research base.
- ◆ To enhance institute- industry interaction.
- ◆ To augment the expertise in cutting-edge technology.
- ◆ To establish centres of excellence in the areas of VLSI, DSP and Communication.
- ◆ To have at least 75% faculty with Ph.D by 2022.

Facilities :

- ◆ Well equipped laboratories to cater to the needs of the curriculum.
- ◆ Adequate computing facility.
- ◆ Adequate class rooms with LCD projectors.
- ◆ Seminar halls with multimedia.
- ◆ Project Lab.
- ◆ e - Classroom for experiential learning.

J.C. Bose Computer Center :

Microcontroller Laboratory :

Verilog Laboratory :

Hardware :

- ESA MCB51 Programmable Microcontroller kits
- Texas Instruments DSP kits
- Universal Multivendor VHDL kits

Software :

Xilinx & Mentor graphics for VHDL Applications
MATLAB for DSP Application
Cadence for VLSI Application
Proteus VSM for Circuit Simulation
VLSI Synopsis Tools
195 computers connected by LAN and 250 Mbps leased line.

Electronics Devices & Circuit Laboratory :

This laboratory is equipped with oscilloscopes, Signal / Function generators, Power supplies, Digital Storage Oscilloscopes and Analog Discovery Kits

Linear Integrated Circuits and Communication Laboratory :

This Laboratory is stacked with LED-and-switch modules, IC testers, Oscilloscopes, signal and Function generators, Ni-myDAQ Kits.

Advanced Communication Laboratory :

This laboratory is equipped with oscilloscopes, IC Testers, Function Generators, Communication Lab Trainers, Optical Fiber Kits, Microwave Benches, Advanced Antenna Trainer Kits. 250MHz Digital Storage Oscilloscopes, TDM Kits, and Microwave Office Software for Microwave Simulation.

Wireless Communication Laboratory :

This laboratory is equipped with Wave guru SDR kits, RF SMA cables, 300-2500 MHz splitters, FM and 2500 MHz antennas, and attenuators, GNU Radio.

P.G. Computer Centre :

ARM Processor Boards, Virtex-II PRO FPGA Kits, Desktop Computers, Image Processing and Audio Daughter Boards, Floating Point DSP Kits, MSP Kits, Z-boards.

Research Activities :

Areas of Research :

- Signal Processing
- Communication Networks
- RF and Microwave Circuits Design
- Microelectronics
- Artificial Intelligence
- Cryptography

Sponsored Research Projects :

Completed : 05

Ongoing :

1. "Improving Intelligibility of dysarthric Speech".
Funding Institution : Science and Engineering Research Board (SERB), DST, Govt. of India.
Amount : Rs. 15.16 Lakhs
Principal Investigator : Dr. Veena Karjigi
2. "Speaker separation in multi-speaker environment".
Funding Institution : Women Scientist Scheme-A (WOS-A) DST
Amount : Rs. 17.75 Lakhs
Principal Investigator : R. Hemavathi
Mentor : Dr. R. Kumaraswamy

No. of Ph.D. awarded (from the centre) : 06

No. of Research Scholars : 14

Research Publications :

National Conference : 106

International Conference : 142

International Refereed Journals : 79

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Sept. 09-12, 1992	Electronic Devices & Circuits
2.	June 14-19, 1993	Electronic Circuits
3.	July 02-09, 1994	ICs & Applications
4.	Mar. 03-07, 1995	Power Electronics
5.	Sept. 04-10, 1995	Analog & Digital Communication
6.	Mar. 04-09, 1996	VLSI Design
7.	July 08-13, 1996	Advanced Microprocessors-I
8.	Jan. 06-11, 1997	Signal Processing – I
9.	Oct. 03-09, 1997	Signal Processing – II
10.	Mar. 09-14, 1998	Programming in C
11.	Aug. 17-22, 1998	Computer Application with C
12.	Feb. 08-13, 1999	Programming in C++
13.	Sept. 14-1, 1999	Signals & Systems
14.	2000	Embedded System Design
15.	2000	Computer Networks \
16.	Apr. 13-16, 2001	Digital Image Processing
17.	Sept. 03-08, 2001	Computer Communication Network
18.	Feb.25-Mar.02, 2002	VHDL
19.	Aug. 26-31, 2002	Linear Algebra
20.	Feb. 23-28, 2003	Probability & Random Process
21.	Aug. 21-27, 2003	Interactive DSP
22.	Jan. 16-18, 2004	Power Electronics
	Feb. 05-07, 2004	(Theory & Practice)
23.	Aug. 23-28, 2004	Nano Technology
24.	Feb.28-Mar.04, 2005	DSP Processors & Applications
25.	Aug. 17-23, 2005	Microcontroller & VLSI Design Lab
26.	Aug. 07-12, 2006	Basic Electronics
27.	Sept. 26-27, 2006	Software Testing
28.	Jan. 29-Feb.03, 2007	Professional Development Programme
29.	Aug. 06-11, 2007	Academic Autonomy
30.	Jan.28-Feb.02, 2008	VHDL
31.	Aug. 01-07, 2008	Signal Processing
32.	Jan. 19-24, 2009	Personality Development
33.	Aug. 27-28, 2009	CMOS VLSI & ASCII Designs
34.	Jan. 27-30, 2010	Arm Processors
35.	Mar. 20-24, 2010	Speech & Image Processing
36.	Jan. 20-27, 2011	Computational Methods E&C Engg.
37.	June 24-30, 2011	Modern Teaching Pedagogy for 21st century generation
38.	June 25-30, 2012	PCB Design, Embedded System & Neural Network
39.	June 24-29, 2013	FPGAs for signal and image processing
40.	Dec. 13, 2013	Antennas & Wave Propagation
41.	Dec. 14, 2013	Transmission Lines & waveguides
42.	Jan. 22-25, 2014	Recent Trends in Communication Engg.

43.	Mar. 21, 2014	INTEL atom processor Kits
44.	June 23-28, 2014	Recent Trends in Microwave Engg.
45.	July 17-19, 2015	Recent Trends in Wireless Communication
46.	Nov. 23-28, 2015	Portable Lab In Micro Electronics
47.	July 13-19, 2016	i) Hands on training on Analog discovery and Ni-My DAQ kits (ii) Hands on training on Wireless communication
48.	July 23-28, 2017	i) Advances in wireless communication & Networking ii) Image processing with NI-Software iii) DSP Lab with Scilab (Open Source)
49.	April 20-26, 2018	i) Virtual Lab ii) Project Management
50.	April 22-27, 2019	IOT and Machine Learning

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. R. Srikantaswamy, M.Tech, Ph.D Professor	Signal Processing
2.	Dr. K.V. Suresh, M.Tech., Ph.D. Professor & Head	Signal Processing
3.	Dr. R. Kumaraswamy, M.E., Ph.D. Professor	Signal Processing
4.	T.C. Mahalingesh, M.E. Associate Professor	Communication
5.	G. Shubha, M.S. Associate Professor	Communication
6.	A.N. Mukunda Rao, M.Tech. Associate Professor	Signal Processing, Embedded Systems
7.	Dr. B.N. Shashikala, M.E., Ph.D. Associate Professor	Microelectronics
8.	T.O. Geetha Rani, M.E. Associate Professor	VLSI Design
9.	Shobha S Goudar, M.S. Associate Professor	Microelectronics
10.	Dr. Veena Karjigi, M.Tech., Ph.D. Associate Professor	Signal Processing
11.	T.R. Sateesh Kumar, M.Tech. Assistant Professor	Industrial Electronics
12.	Dr. B.C. Mallikarjun, M.E., Ph.D. Assistant Professor	Computer Networking
13.	Y. Harshalatha, M.Tech. Assistant Professor (Pursuing Ph.D.)	Signal Processing
14.	Dr. V.M. Aparanji, M.Sc. Engg., Ph.D. Assistant Professor	Embedded System
15.	Dr. Seema B Hegde, M.Tech., Ph.D. Assistant Professor	Computer Networking
16.	S. Mala, M.Tech. Assistant Professor (Pursuing Ph.D.)	Digital Electronics
17.	Dr. B.T. Venkatesh Murthy, Assistant Professor M.Tech., Ph.D.	Communication
18.	P.S. Shilpashree, M.Tech. Assistant Professor (Pursuing Ph.D.)	Signal Processing
19.	Dr. S.J. Sheela, M.Tech., Ph.D. Assistant Professor	Chaotic Communication
20.	Sujatha. H.M., M.Tech. Assistant Professor	Digital Electronics
21.	Dhruva Kumar. T, M.Tech. Assistant Professor (Pursuing Ph.D.)	Communication, Data Compression
22.	S. Raveesh, M.Tech. Assistant Professor (Pursuing Ph.D.)	VLSI Design
23.	Vinaya. S.J., M.Tech. Assistant Professor	VLSI Design
24.	H.S. Pradeep, M.Tech. Assistant Professor	Communication
25.	K.V. Jyothi Prakash, M.Tech. Assistant Professor (Pursuing Ph.D.)	VLSI Design
26.	T.L. Purushottama, M.Tech. Assistant Professor (Pursuing Ph.D.)	Communication
27.	Roopa. S., M.Tech. Assistant Professor (Pursuing Ph.D.)	Signal Processing

Advisory Board

Chairman :

Dr. K V Suresh

Professor & Head, Dept. of ECE, S.I.T., Tumakuru

Experts from outside Institute :

Dr. Muralidhar M Kulkarni

Prof. & Head, Dept. of ECE, NITK, Surathkal

Dr. Somashekar Bhat

Prof. & Head, Dept. of ECE, M.I.T., Manipal

Experts from Industry :

Dr. Sarat Chandra Babu N

Executive Director, CDAC, Bengaluru

Dr. Lokesh Boregowda

Principal Engineer, Samsung R&D Institute India (SRI-B), Bengaluru

Mr. Upendra Revuri

Engineering Services, Robert Bosch Engineering and Business Solutions Ltd., Bengaluru

Internal Members :

Dr. R Srikantaswamy

Professor, Dept. of ECE, S.I.T., Tumakuru

Dr. R. Kumaraswamy

Professor, Dept. of ECE, S.I.T., Tumakuru

Convener :

Dr. Veena Karjigi

Associate Professor, Dept. of ECE, S.I.T., Tumakuru

International Conference

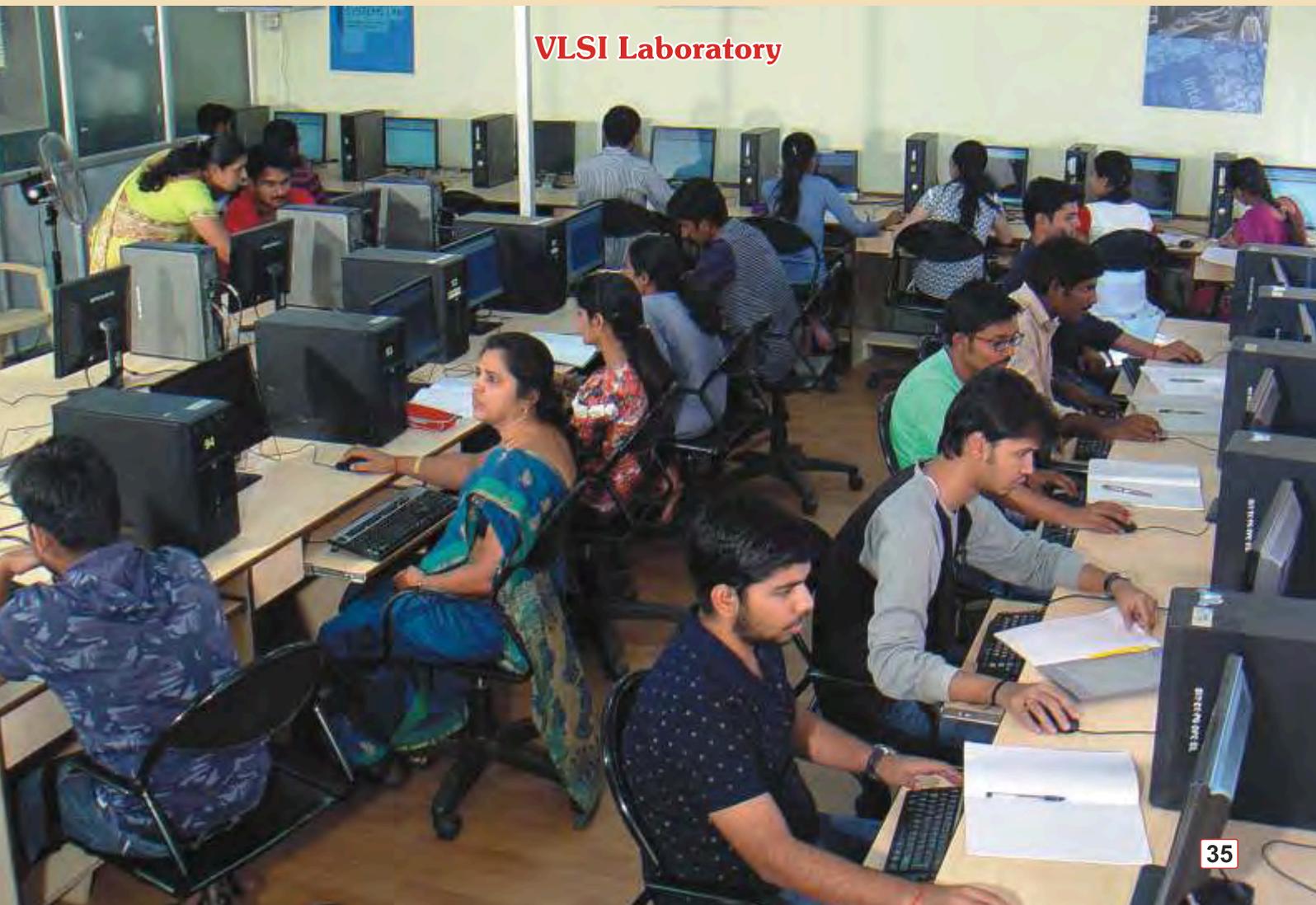
To commemorate the golden jubilee of our Institute, the departments of Electronics and Communication Engg. and Telecommunication Engg. jointly organized an **International Conference on Communication, VLSI and Signal Processing - ICCVSP 2013** from 20th February to 22nd February 2013.

National Conference

National Conference on "Recent Trends in Electrical Sciences (NCRTES-18)" was held on 3rd March 2018.

MoUs :

1. Intel Technology India Pvt. Ltd., Bengaluru
2. Tata Consultancy Services
3. Rajiv Gandhi Institute of Technology, Kottayam, Kerala
4. University of Agriculture Science, Dharwad
5. IIIT, Bengaluru
6. Shanthala Power Ltd., Hubli
7. NITK, Surathkal, Karnataka
8. Osmania University, Hyderabad
9. Titan Industries Ltd., Tamilnadu India
10. International Institute of Information Technology, Hyderabad (AP) Deemed
11. VIT University, Vellore (Tamil Nadu)
12. RMIT, University
13. Encore Software Ltd., Bengaluru
14. Aspire Business Solutions, Tumakuru



Awards and Accolades :

Students

- VTU ranks in 1985-86, 1990-91, 1997-98, 2002-03, 2008-09, 2009-10
- I Rank in 2008-09 with 6 gold medals (Shomith.B.K)
- Papers presented by the students were awarded as best papers on several occasions
- Students have won many prizes in paper presentation, robotics competition, and hobby project exhibitions conducted by SIT and other institutions
- Student projects sponsored by KSCST have won best project award consecutively in 2008-09 2009-10, 2011-12
- The UG project titled “Smart farmer assistant” (Guide: Mr. T R Sateesh Kumar) was awarded the best KSCST project of the year 2011-12 under seminar category at SDMIT, Ujire
- The UG project titled “Automatic License plate recognition system for video sequence with motion deblur algorithm (Guide : Dr. R Srikantaswamy) was awarded special KSCST project Prize for the year 2011-12 at SDMIT, Ujire
- The UG project titled “E-ration management system” (Guide: Mrs. Mala S. and Mrs. Seema B Hegde) was awarded the best KSCST project of the year 2011-12 under exhibition category at SDMIT, Ujire
- IEEE-SIT student branch has been awarded as the best chapter in 2005 and 2008.
- One of the final year projects has been awarded Best project for the year 2007 by TCS, Bangalore
- Ms. Ranjitha.Y.P of 2007 autonomous batch secured highest CGPA (College topper of the institute)
- Ms. Shruthi.H.N. of 2008 autonomous batch secured I Rank and won SIT Gold medal & Shekar B Chandrashekar Gold medal
- Md. Ismayil of 2008 autonomous batch has secured S. Viswanathan Gold medal for scoring highest marks in network theory.
- Ms. Nagalla Lakshmi Swetha of 2009-11 autonomous batch (PG-Signal Processing) secured I Rank and won SIT Gold medal
- Mr. Jayanth Athreya (2008 batch) was selected for ABB India Student Intern from 1st July 2011 to 30th June 2012 with a stipend of 20000.00 INR.
- Mr. Jayanth Atreya (2008 batch) has won **best student of the year** award instituted by TCS, Bangalore.
- Prasad.C.L. Pradeep M.P, Praveen Kumar & Vinay T.P and Sai Girish Krishna of VI sem E&C students have won 1st place in Robotic Competition: Line follower in Technical symposium “PIONEER-14” at PESCE Mandya from 25th to 26th April 2014.
- Shreyas M R has participated in Microsoft student partners (MSP) Annual Summit at Gyan Ganga Institute of Technology & Management, Bhopal on 9th & 10th November 2014.
- Shreyas M.R. has been selected to become a Microsoft Student Associate (MSA).
- Chandan B.A, Avinash,P, Gokul.K and Eashwara Murthy.C.M VIII sem E&C students for having secured the Best Paper Award in DSP domain for the paper titled “Real Time People Counting Using Image processing” in the “National Conference on Advanced Communication, VLSI Design & Signal Processing” (NCCVS-15) held at K. S. School of Engineering & Management on 29th April 2015.
- Yashaswini.S, Sahana. M.P, Ranjani.R and Pooja. L, VIII sem E&C students have secured I place in paper presented a paper titled “Oil Debris Monitoring” in “AAVISHKAAR-15” (National level Inter-collegiate Tech Fest of IEEE-MSRIT) conducted by M.S.Ramaiah Institute of Technology, Bangalore, on 26th, 27th & 28th March 2015.
- Sindu.B.V, Roopa.R.S and Shilpa.S VIII sem E&C students for having secured second position in national level student project competition “PRATIRA-2015” on 6th May 2015 for the project “SMART BUS STATION” held at Sambhram Institute of Technology, Department of Electronics and Communication Engineering.
- Prasad C.L, Pradeep M.P, Praveen Kumar and Vinay T.P VIII sem E&C students have secured II place in LINE FOLLOWER event at National Round of “INDO-US ROBO LEAGUE-2015” conducted by Technophilia Systems and Robotics and Computer Applications Institute of USA, held at IIT Bombay during Aavriti 2015 (organized by EESA IIT Bombay), on 28th & 29th March 2015.
- Vignesh.K.S and Shreyas.M.R VIII sem E&C students have participated in LINE FOLLOWER event at National Round of “INDO-US ROBO LEAGUE-2015” conducted by Technophilia Systems and Robotics and Computer Applications Institute of USA, held at IIT Bombay during Aavriti 2015 (organized by EESA IIT Bombay), on 28th & 29th March 2015.
- The following Students have won the I Place in Hobby Project Exhibition of Annual Fest. Technisium 2016, 1) Parash Mani Shah 2) Swetha Bhattarai. 3) Bickey Shah, held on 2nd March 2016. Project Title “Acceleration based hand Gesture controlled Robot”
- Mr. Vishal Naik B and Praveen V Sindgi have actively participated in 3rd Indian Student Forum on the theme “Engineering Education without Borders” Held at College of Engineering Pune, from 8th to 10th Jan 2016.
- VII Sem BE E&C Students, Neeraj Kumar, Pradhan, Pavan A Ranganath N P, under the Guidance of Prof. D N Jayaram, have won a Best Project Award under Wipro Mission 10X, PRAKALPA-Regional Project Competition conducted at BMS College of Engineering, Bangalore on 18th January 2016. Project Title: Cruiser Alert System For Motor Vehicles.
- Sindu.B.V, Roopa.R.S and Shilpa.S VIII sem E&C students for have secured second position in national level student project competition “PRATIRA-2015” on 6th May 2015 for the project “SMART BUS STATION” held at Sambhram Institute of Technology, Department of Electronics and Communication Engineering.
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- Mallikarjun. B.S, Anil. M.S, Meghana. R.V and Bindushree M.S, students of VIII sem E&C have won outstanding projects awards for the year 2016-17 in the Student Project Programme (SPP) (40th Series) by KSCST, Bangalore for the project entitled “IOT Based Smart Public Distribution System” under the guidance of Mrs. S. Mala.
- The article titled "Brinkmanship in the Korean Peninsula" written by Mr. Ayush Sinha, III Year ECE is published in Indian Military Review, Volume 8, May 2017 magazine.
- The Students of VII E&C Mr. Bharath. G.B. and Rakesh. K.J. have secured First place in Technical Fest "Symphony" organised by National Institute of Technology Karnataka, Surathkal.
- Aakash Binu, IV sem E & C student has been awarded II position in the Business Analytics Case Study Competition of the Sports Tech Summit 2019 at IIT Madras.
- Sushmitha S, Sneha T, Sarvini T and Sukanya Gowthami G. S., students of VIII sem E & C have won Best Mathworks award in 6th National Level Technical Project Exhibition and Competition for the project titled “ASTRA” (Guide: Dr. R. Kumaraswamy) in SRISHTI 2019 held at Saintgits College of Engineering, Kottayam, Kerala on 18th & 19th Feb. 2019.
- Madhukar D and Sridhar Savadatti, VI sem E &C student have won II prize in the event project Expo for the project titled “ Anti Piracy screening system” in SAAMARTHYA organized by SSIT-IEEE on 15th February 2019.
- Harshitha S has been qualified in DST & Texas Instruments India Innovation Challenge Design Contest 2018, anchored by IIM, Bangalore.
- Pankaj M Thakur is awarded for an outstanding performance in Prelims round of IOT challenge 2019 event conducted by i3indya Technologies on 21st -22nd November 2018 at Chirst (Deemed to be University), Kengeri, Bangalore.
- Mr. Rishikesh Jha (2010-14 batch) has secured All India Ranking 217, in GATE 2018.
- P. S. Shilpashree, Asst. Professor is honored with Sree Sree Shivakumara Swamiji **Gold Medal** for securing First Rank in M.Tech., Dec 2010
- Dr. R Kumaraswamy, Professor has won **Best Paper Award in 2011**
- Dr. R Kumaraswamy has received **Transaction Paper Award** from IEEE Bangalore section
- Dr. R. Srikantaswamy has won **Best Paper Award in 2012**
- Prof. T. O. Geetharani has won **Gold Medal** for securing I- Rank in ME, Bangalore university
- Dr. R. Kumaraswamy has been Elevated to the grade of Senior Member of the IEEE
- Dr. K.V. Suresh has been Elevated to the grade of Senior Member of the IEEE
- Dr. R. Kumaraswamy has successfully completed a free online offering of the following course provided by **Stanford University** through COURSEERA.INC “**Machine Learning**”
- Dr. K.V.Suresh, Professor has successfully completed an online non-credit course offered by Duke University on image processing
- Dr. K.V. Suresh, Professor has completed NPTEL Online Certification with a score of 80% for the subject Probability and Random Variables for Wireless Communication.
- Pradeep. H.S. has successfully completed the short term course on “Design and Simulation of Antennas & Microwave Devices” conducted by Department of Electronics & Communication Engineering NIT Rourkela.
- Pradeep. H.S has successfully completed the NPTEL Online Certification course on “Antennas” conducted by IIT Bombay.
- Dr. Mallikarjun B. C. has been awarded as “**Best Paper Presenter**” for the paper titled, “Smart Jacket-An IOT approach for Women Security” in the 3rd IEEE international conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT-2018) in association with IEEE Bangalore section organized by GSSS Institute of Engineering and Technology for Women, Mysuru on 14th & 15th Dec. 2018.
- Dr. B. T. Venkatesh Murthy has been appointed as **Editorial Board Member** of Journal of Atomspheric Science Research ISSN: 2630-5119 (online) from 29th April 2019 to 28th April 2020.

Faculty

- **Best Thesis Award** of the year 2008 by Board of IT education (BITES) to the PhD thesis submitted to IIT Madras by Dr. K.V. Suresh, Professor and Head



Electronics Devices & Circuit Lab



Wireless Communication Lab



Department of Chemical Engineering

Year of Establishment : 1974

Courses Offered :

UG Programme :

B.E. Chemical Engineering

PG Programme :

M.Sc. (Engg.) - Chemical Engineering

Ph.D. Programme :

Ph.D. in Chemical Engineering

Vision of the Department :

To be an internationally renowned department for Chemical Engineering education and research meeting the aspirations of society.

Mission of the Department :

- ◆ To impart quality education in Chemical Engineering at all levels.
- ◆ To foster cutting edge Research & Development in Chemical Engineering.
- ◆ To produce responsible and ethical engineers to serve society.

Short Range Goals :

- ◆ Training the students to develop technological capabilities, team spirit, and leadership qualities.
- ◆ Coaching students for competitive examinations like GATE, GRE, and CAT.
- ◆ Improving placements through industry-institute interaction.
- ◆ Maintaining academic excellence by incorporating latest teaching aids.
- ◆ Establishing research and innovation culture among students.
- ◆ Assist slow learners to enhance their learning skills and provide co-curricular and extra-curricular guidance through proctored system to all students to enable them to excel.
- ◆ Improving alumni network for mutual benefit.

Long Range Goals :

- ◆ To elevate the department to the level of premier national institutions.
- ◆ To upgrade the facilities in the department to meet the technology and R & D needs of surrounding industries.

- ◆ To apply and obtain funds from various agencies like AICTE, UGC, DST, DBT, BARC, SERB, ISRO, SDB, KSPCB, Welcome Trust-DBT and others.
- ◆ To develop new sustainable processes technologies.
- ◆ To establish Industry-Institute collaborative activities and international student exchange programmes.

Facilities :

The department has well-established facilities for students, faculty and staff.

Class Rooms :

UG class rooms are well furnished and are provided with LCD Projectors, Internet connection.

Laboratories :

The laboratories are well equipped to provide practical training for UG programme. To enhance the research interest, the department has the following additional laboratories and equipment :

PG/Research Laboratory :

ICP-MS, TOC, High Pressure Liquid Chromatography (HPLC), UV visible Spectrophotometer, Flame Photometer, Photo Bioreactor.

Bio-Invent Laboratory :

Zeta Sizer, Rotary evaporator, Optical microscope, Centrifuge, Orbital shaker, Cyclomixer, Tissue homogenizer, Spot flurometer, Cell culture facility, Lipid mini extruder, Nitrogen Storage Vessel, Real Time-PCR, Western Blotter, Electrophoresis unit, CO₂ incubator, Biological Safety Cabinet, Autoclave, UV Transilluminator, Freeze Drier, Ice Flaker, COMSOL Multiphysics Software.

Project Laboratory :

Deep Freezer, Spray Drier, Ultracentrifuge, Rotary Disc Contactor, Packed Distillation Column.



Srinivasa Ramanujan Computer Centre :

- Design II for process analysis and simulation,
- COMSOL 5.3 Multiphysics software to provide training on design of process equipment and their performance evaluation
- MATLAB 7.0

Seminar Hall :

The Department has an air conditioned seminar hall with state-of-the art audio and visual facility with the seating capacity of 200, to carry out the co-curricular and extra-curricular activities of the department.

Dr. Y. J. Rao Department Library :

The Department library has about 1400 textbooks and nearly 200 various back volumes of national and international journals and periodicals covering both chemical engineering and allied sciences.

The journals available include :

Weekly : Chemical Weekly

Monthly : Chemical Industry Digest Chemical Business, Chemical Engineering World, Chemical Product Finder, Indian Journal of Bio-Technology and Nandini Chemical Journal.

Bimonthly : Indian Journal of Chemical Technology, Journal of Bio-Sciences, Proceedings of the Indian Academy of Sciences and Chemical Sciences.

Quarterly : Indian Chemical Engineer

Placement Activity :

The department is actively functioning in coordination with the Department of Placement and Training through department placement co-ordinator for better interaction with chemical industries to promote our students for training and placement. Many of our students are placed in Jubilant Organosys, Grasim Industries Ltd, Desmet Ballestra, Mangalore Chemicals & Fertilizers Ltd, Tata Consultancy Services, Wipro Technologies, Jindal Steel, Bellary, Caritor Technologies, Sami Labs, PJ Margo, L&T Valdel Engineering etc.

Research Activities :

Areas of Research :

The faculty and research scholars are actively engaged in research in the areas of current importance and of social relevance viz.,

- Studies on Lipid Productivity & Carbon Dioxide Sequestration Ability of Microalgae in Photo bioreactor.
- Thermodynamic Properties of Binary and Ternary Mixtures.
- Super Critical Extractions.
- Conversion of waste plastic to fuel and waste food to useful products by Fermentation
- Removal of fluoride and heavy metals from water and wastewater.
- Development of Acoustic Paints.

- Production of Bio active compounds from coffee industry waste.
- Synthesis and Characterization of TiO₂ Nano particles, films and membranes for environmental applications.
- Biodiesel production.
- Ocular drug delivery
- Development of biosensors

No. of Ph.D.s Awarded	: 08
No. of Research Scholars	: 08

Research Publications :

National Publications	: 08
International Publications	: 43
National Refereed Journals	: 15
International Refereed Journals	: 61

Consultancy, Testing & Entrepreneurial Activities :

- The Department has state-of-the-art facility to carryout testing of water and waste water samples to meet the quality standards of Govt. / Private industries at reasonable prices.
- Dr. Sudhir Ranganath, has established a new startup "Tvastra InnoTech Solutions Pvt Ltd" which provides pharma research solutions in API manufacturing for pharma industries.

MoUs :

MoUs have been signed with :

1. **University of Agricultural Sciences**
GKVK, Bengaluru - 560 065
2. **Poornaprajna Institute of Scientific Research**
City Campus: No.4, 16th Cross
Sadashivanagar, Bengaluru - 560 080
3. **Tadimety Aromatics Private Limited**
#25A, KIADB, Hirehally Industrial Area,
Tumakuru - 572 168.
4. **M/s. Liveon Biolabs Pvt. Ltd.**
46, & 47, KIADB Industrial Area, Phase-II,
Antharasanahalli, Tumakuru - 572 106.
5. **M/s. Vsix Analytical Labs Pvt. Ltd.**
#77, 21st 'D' Cross, Sunkadakatte, Bengaluru - 91
6. **M/s. Jubilant Organosys Ltd.**
#56, Industrial Area, Nanjanagudu - 571 302

Mechanical Operations Lab



Sponsored Research Projects :

Completed :

Production and Purification of Estreases from Microorganisms.

Funding Institution : AICTE, New Delhi
Amount : Rs. 10.00 Lakhs
Principal Investigator : Dr. B.S. Gowrishankar

Feasibility of biodiesel production using algae oils.

Funding Institution : VTU, Belagavi
Amount : Rs. 7.98 Lakhs
Principal Investigator : Dr. P Nirguna Babu
Co-principal Investigator : Prakash Binnal

Understanding the biophysical properties of cell membrane-derived nanocarriers for the rational design of targeted drug delivery systems.

Funding Institution : CEFIPRA, New Delhi
Amount : Rs. 1.69 Lakhs
Principal Investigator : Dr. Sudhir H Ranganath

Nanoparticles-assisted non-genetic transient engineering of stem cells.

Funding Institution : SSES / TEQIP-II
Amount : Rs. 9.50 Lakhs
Principal Investigator : Dr. Sudhir H Ranganath

On-going :

Centre for Water and Wastewater management of MSM Enterprises.

Funding Institution : KCTU, Bangalore & SSES, Tumkur
Amount : Rs. 135.50 Lakhs
Principal Investigator : Dr. Thomas Theodore
Co-principal Investigator : Dr. Poornima G Hiremath

Nano particle based Prophylactic Drug Delivery to the Corneal Endothelium.

Funding Institution : SERB-EMR
Amount : Rs. 38.00 Lakhs
Principal Investigator : Dr. Sudhir H Ranganath

Mesenchymal stem cell-derived Nanovesicles loaded with ¹⁷⁷Lu for targeted cancer therapy.

Funding Institution : BRNS-RTAC (DAE)
Amount : Rs. 28.80 Lakhs
Principal Investigator : Dr. Sudhir H Ranganath

Ocular Drug Delivery.

Funding Institution : SSES, Sree Siddaganga Math
Amount : Rs. 47.00 Lakhs
Principal Investigator : Dr. Sudhir H Ranganath

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Sep. 7 - 12, 1992	Chemical Process Calculations
2.	June 14 - 19, 1993	Momentum Transfer
3.	Jan. 17 - 22, 1994	Heat Transfer
4.	July 2 - 9, 1994	Mass Transfer
5.	March 1 - 7, 1995	Separation Processes
6.	Sep. 4 - 9, 1995	Chemical Reaction Engineering
7.	March 4 - 9, 1996	Reactor Design
8.	July 8 - 13, 1996	Process Control
9.	Jan. 6 - 11, 1997	Thermodynamics
10.	Oct. 3 - 9, 1997	Chemical Equipment Design
11.	March 9-14, 1998	Advanced Computer Application in Chemical Engineering
12.	Aug. 17 - 22, 1998	Computer Aided Design in Chemical Engg.
13.	Feb. 8 - 13, 1999	Biotechnology
14.	Sep. 14 - 19, 1999	Food and Polymer Technology
15.	Apr. 13 - 15, 2001	MS-Office2000 & Internet Browsing
16.	Sept. 3 - 10, 2001	Oracle - 8
17.	Feb. 25-Mar.02,2002	Biotechnology
18.	Aug.26-31, 2002	Organisational behaviour
19.	Feb.23 - 28, 2003	Process Simulation of Chemical Equipments
20.	Jan.16-18, Feb. 05-07, 2004	Pharma Technology
21.	Aug. 27-28, 2004	Instrumental Methods of Analysis of Molecular Spectroscopy
22.	Feb.27-Mar.4, 2005	E-Business and quality concept in Chemical Engineering
23.	Aug. 17-23, 2005	Recent Trends in Bio-Technology Process (TEQIP)
24.	Feb. 06-11, 2006	Transport Phenomena & Modelling (TEQIP)
25.	Aug. 07-12, 2006	Novel Separation Techniques
26.	Jan. 29 - Feb. 3, 2007	Professional Development Programme
27.	Aug. 06-11, 2007	Academic Autonomy
28.	Jan.28 - Feb.02, 2008	Biosensors & Bioinstrumentation
29.	Aug. 01-07, 2008	Research Areas on Bacteriorhodopsin, Nanoparticles & Computer Applications
30.	Jan. 19-24, 2009	Research Areas on Bacteriorhodopsin, Nanoparticles, Microfluids and Wealth from Waste
31.	Aug. 22, 2009	Curriculum Development
32.	Jan. 24-30, 2010	Applications of SuperPro, ASPEN, HYSYS & Fermentation Technology
33.	June 25-30, 2010	Chemical Engineering Applications and Characterization of Materials
34.	Jan. 20-27, 2011 Jan. 20-27, 2011	Piping Design, Simulation & Modelling Nanomaterials (Catalysts and its applications) ASPEN, Bio Surfactant, Bio Remediation
35.	June 24-30, 2011	Curriculum Development, Pedagogy, Research Initiative
36.	Jan 15-20, 2012	Content Upgradation
37.	Jan. 21-23, 2012	Management Capacity Dev. for HODs
38.	June 21-26, 2012	Content Upgradation
39.	June 25-30, 2102	Recent Advances in Chemical Engineering and Biotechnology
40.	June 24-29, 2013	Advances in Chemical Engineering
41.	Feb. 14-15, 2014	Two Day International Conference on "Green and Clean Technologies in Chemical Engg. and Biotechnology"
42.	Aug.11-13, 2014	UNISIM A Simulation Software for Chemical Equipment Design
43.	Nov. 23-28, 2015	Electrical, Magnetic and Catalytic properties of Nano- materials
44.	March 19, 2016	National Conference on Disaster Mgmt. and Environmental Applications
45.	July 15-19, 2016	Synthesis, Characterization of Nanomaterials & their Engineering Applications
46.	Dec. 30, 2016	Seminar on Industrial Safety
47.	March 10-11, 2017	Seminar on Industrial Flow Measurement
48.	July 23-28, 2017	Environmental Pollution & Remediation
49.	April 23-28, 2018	Novel Materials for Engineering and Environmental Applications
50.	April 22-27, 2019	Computer Aided Machine Drawing

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. S. Murthy Shekhar M.Tech., Ph.D. Professor & Head	CFD, Momentum Transfer, Multiphase Flow
2.	K.R. Shadakshara Murthy M.Tech., Associate Professor	Reaction Engineering, Energy Engineering and Computer Aided Equipment Drawing
3.	Dr. Vinayak M. Hegde M.Tech., Ph.D. Associate Professor	Computer Aided Design, Process Economics, TQM and Biomass Conversion
4.	Dr. Thomas Theodore, Ph.D. Associate Professor	Bioprocess Engg. Biopharmaceutical Engineering and Industrial Safety
5.	Dr. G.R. Suma B.E., M.Sc. (Engg.), Ph.D. Assistant Professor	Chemical Technology, Petroleum Engg. Polymer Composites & Material Science
6.	Dr. S. Rajashekhara M.Tech., Ph.D. Assistant Professor	Separation Processes, Fluidization, Computer Applications & Biochemical Engg.
7.	Dr. Harish Phattepur M.Tech., Ph.D. Assistant Professor	Transport Phenomena Nano Films
8.	Dr. Poornima G. Hiremath M.Tech., Ph.D. Assistant Professor	Mass Transfer, Computer Modelling & Simulation, Water and Waste Water Mgmt.
9.	Suman Pawar, M.Tech. Asst. Professor (Pursuing Ph.D.)	Thermodynamics, Design, Transport Phenomena
10.	Dr. Prakash Binnal M.Tech., Ph.D. Assistant Professor	Computer Aided Process & Equipment Design, Algal biofuels
11.	Manjunath. S.P., M.Tech. Assistant Professor	Indl. Pollution Control, Ceramic Membranes and Design, Chemical Process Integration
12.	Jayaprasanna Kumar.D, M.Tech. Asst. Professor (Pursuing Ph.D.)	Process Dynamics and Control
13.	Dr. Sudhir H. Ranganath M.S., Ph.D. Assistant Professor	Bio Materials for Drug Delivery, Nanomedicine, Stem Cell Bioengineering, Modelling of Drug Transport in Biological Systems

Awards & Accolades : (Faculty & Students)

Faculty :

2019

- Mr. Harish Phattepur, presented a poster entitled "Fabrication of cellulose acetate TiO₂ composite for the degradation of methylene blue", at NIT, Warangal during 15-16 Feb. 2019, in an International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2019) and secured first prize.

2018

- Mr. Prakash Binnal, was awarded by Ph.D. degree for his thesis on "Studies on Lipid Productivity & Carbon Dioxide Sequestration Ability of Microalgae in Photobioreactor", from VTU, Belagavi
- Smt. Suma G R, Asst. Prof., was awarded Ph.D. degree for her thesis on "Synthesis, Characterization, Optimization and Applications of PVA-Nano metal Oxide Composites", from Jawaharlal Nehru Technological University, Ananthapur, AP.
- Dr. Sudhir H Ranganath, presented a poster at COMSOL Conference, held in Bengaluru and won Best Poster Award for his work entitled Simulation of measurement of corneal permeability of multi-drop method using COMSOL Multiphysics.

Students :

2019

- Mr. Puttur Sujith Karanth, Ms. Tejaswini Patil and Mr. Amul Goge's major project is among "Top 40 Innovations" in the IIGP 2.0, 2019 University Challenge category from more than 1000 applications nationwide, and will be competing for a spot among "Top 10 Innovations" and Rs.10 lakh research grant at IIT Bombay.
- Mr. Sadashiv Patil, II year B.E. student has secured the highly prestigious Indian Academy of Science (IAS) summer fellowship 2019 to work at I.I.Sc. Bengaluru.
- Mr. Rakshith Raikar, II year B.E. students, has secured highly prestigious Indian Academy of Science (IAS) summer fellowship 2019 to work at ICT, Mumbai.
- Ms. Tejaswini A Deshpande, II year B.E. student has secured highly prestigious Indian Academy of Science (IAS) summer fellowship 2019 to work at NIT, Warangal.
- Mr. M Nitin Rajendra and Ms. Sahithya B students of VI semester have been selected for summer internship offered by Dept. of Chemical Engineering, I.I.Sc. Bengaluru.
- Ms. Badigi Vinusha student of VI semester has been selected for summer internship at Poornapragna Institute of Scientific Research, Bengaluru.
- Mr. Hemanth P, III year students has passed the two NPTEL online courses, viz., Mechanical Operations from IIT, Roorkee and Mass Transfer, Momentum Transfer and Heat Transfer from IIT, Kanpur.
- Mr. P Hemanth, bagged the first prize in the mini project exhibition organised by ISTE student chapter of SIT, held on 22nd April, 2019.
- Ms. Tejaswini, Mr. Amul Goge and Mr. Sujith S S, bagged the third prize in the major project exhibition organised by ISTE student chapter of SIT, held on 22nd April, 2019.
- Ms. Tejaswini, Mr. Amul Goge and Mr. Sujith S S, have won first prize at the IICHE-BRC, best UG project award-2019 event, held at Ramaiah Institute of Technology [RIT], Bengaluru on 18th May 2019
- Mr. Rohan Anil Shet, IV sem student has won first prize in paper presentation, conducted by CHEMPLUS'19 during March 15-19, 2019 at IIT, Madras.
- Mr. Puttur Sujith Karanth, Ms. Tejaswini Patil and Mr. Amul Goge have won first prize in "Affiche (poster presentation) competition", at Azeotropy 16th & 17th March, 2019, IIT Bombay.
- Ms. Shlagha Srivastava, Ms. Ankita Sharma and Mr. Navaneeth K N, have won second prize in "Nano-Invento competition", at Azeotropy 16th & 17th March 2019, IIT Bombay.

- Mr. Puttur Sujith Karanth, Ms. Tejaswini Patil and Mr. Amul Goge have bagged third prize in the “Nano-Invento competition”, at Azeotropy 16th & 17th March 2019, IIT Bombay.
- Ms. Tanusha K N and Ms. Kavitha B C, VIII sem student has won first prize in poster presentation, conducted by CHEMPLUS'19 during March 15-17, 2019 at IIT, Madras.

2018

- Ms. Rea Johl, has secured Research Associate position at Kansa University, USA, to work in the area of Stem Cell Bioengineering, under the guidance of Dr. Arghya Paul, Kansas University, USA, and Dr. Sudhir H Ranganath, SIT, Tumakuru.
- Mr. Abdul Bais Kadli, Ms. Sheril Varghese and Mr. Vishnu V Bhaskar, have won best oral paper presentation award for paper entitled “Optimization and modelling of Defluoridation of water using biological waste by RSM and ANN”, at International Conference on Desalination (InDACON-2018) organised by NIT, Trichy, and Dr. Poornima G Hiremath on 20th & 21st April, 2018.
- Mr. M Nitin Rajendra, has won, the “Koun Banega Udyogpathi”, contest for his business plan” Converting Area Solid Waste into Value Added Products” held at SIT, Tumakuru on 6th April 2018.
- Ms. Rea Johl, Ms. H N Bhagya Shree and Mr. Sri Hari K, have bagged FIRST prize in oral presentation at REFLUX 2018 in the Polymer Science category, held on 28th Sept. 2018 at IIT Guwahati.
- Miss. Shlagha S, Mr. Navaneeth K N and Ms. Ankita Sharma, have bagged FIRST prize in oral presentation in the Biochemical Engineering category, held on 28th Sept. 2018 at IIT Guwahati.
- Mr. CSN Harshavardhan, Mr. Mohd Danish Ahmed and Mr. T G Shashank Bharadhwaj, have bagged “Best Poster award”, for poster entitled “Simulation of measurement of corneal permeability of multi-drop method using COMSOL Multiphysics”, held on 28th Sept. 2018 at the IIT, Guwahati.
- Ms. Thanuja, Research Scholar and Ms. Tejaswini, bagged FIRST prize', for the poster presentation at the American Institute of Chemical Engineering's (AIChE) India, Regional Conference held at VIT Vellore, on 11th Aug. 2018.

Awards and accolades received by our students in other technical fests:

2019

- 3rd prize in Chen-o-phia, held during REACT-2019, at RVCE, B'luuon 30th March 2019.
- 2nd prize in REACT-2019, held at RVCE, Bengaluru on 30th March 2019, oral presentation.
- 2nd prize in “ALCHEMIST-2019”, held at KLE college of Engineering and Technology, Belagavi on 20th March 2019, paper presentation.
- 3rd prize in “ALCHEMIST-2019”, held at KLE college of Engineering and Technology, Belagavi on 20th March 2019, paper presentation.
- 1st prize in CHEMEXCEL 2019, held at BIE, Davanagere, on 22nd March 2019, poster presentation.

- 1st prize in CHEMEXCEL 2019, held at BIE, Davanagere, on 22nd March 2019, paper presentation.
- 3rd prize in ALCHEMIST-2019, held at KLE college of Engineering & Technology, on 20th March 2019, paper presentation.
- 2nd prize in ALCHEMIST-2019, held at KLE college of Engineering & Technology, on 20th March 2019, poster presentation.

2018

- 1st prize in Chemignite-2018”, organised by Dept. of Chemical Engineering, MIT, Manipal, held on 29th and 30th Oct. 2018, paper presentation.
- 2nd prize in Chemignite-2018”, organised by Dept. of Chemical Engineering, MIT, Manipal, held on 29th and 30th Oct. 2018, paper presentation.
- 3rd prize in Chemignite-2018”, organised by Dept. of Chemical Engineering, MIT, Manipal, held on 29th and 30th Oct. 2018, paper presentation.
- “Popular Choice Poster” at COMSOL International Conference.
- 1st prize in “ALCHEMIST-2018”, held at KLE, Belagavi, on 14th March 2018 for paper presentation.

Advisory Board

Chairman : Dr. Murthy Shekhar

Prof. & Head, Dept. of Chemical Engg.,
S.I.T., Tumakuru.

Convener : Dr. Sudhir H Ranganath

Assistant Professor, Dept. of Chemical Engg.,
S.I.T., Tumakuru.

Members from Other Institutions :

1. **Dr. M.A.L. Antony Raj**
Professor, Dept. of Chemical Engg.,
R.V. College of Engineering, Bengaluru - 560 059
2. **Dr. Samita Maitra**
Professor, Dept. of Chemical Engg.,
B.M.S. College of Engineering, Bengaluru - 560 019

Members from Industry :

3. **Mr. Raghuram M**
Chief Operating Officer
Desmet Ballestra India Pvt. Ltd., Bengaluru - 560 052

Internal Members :

4. **Dr. Thomas Theodore**
Associate Professor, Dept. of Chemical Engg.,
S.I.T., Tumakuru.
5. **Dr. S. Rajashekhar**
Asst. Prof., Dept. of Chemical Engg, SIT, Tumakuru.

Momentum Transfer Laboratory





Department of Electronics & Instrumentation Engineering

Year of Establishment : 1979

Courses Offered :

UG Programme :

B.E. Electronics & Instrumentation Engineering

PG Programme :

M.Tech. VLSI Design & Embedded Systems

Ph.D. Programme :

Ph.D. in Electronics & Instrumentation Engg.

Mission of the Department :

The department is committed to develop competent professionals by offering need based curriculum in Electronics and Instrumentation Engineering areas, promoting research and innovation to prepare the students for higher study, life-long learning and societal responsibility. The department is bound to provide good learning environment to develop professional ethics and skills in students to offer engineering service to the society.

Short Range Goals :

- ◆ Improving the acceptance of our students by Industries.
- ◆ Updating knowledge of our students through invited lectures and workshops.
- ◆ Training students in emerging areas through bridge courses.
- ◆ Enhancing the knowledge level of faculty and staff.
- ◆ Updating the curriculum to suit the requirements of Industries and higher learning institutes.
- ◆ To undertake demand driven research projects.
- ◆ To achieve 100% result & placement,

Long Range Goal :

- ◆ To have at least 75% of faculty with Ph.D. qualification.
- ◆ To Establish :
 - Consultancy Cell.
 - Calibration Centre.

Facilities :

The department laboratories are well equipped with the most advanced equipment.

Brahma Gupta Computer Centre :

This centre has 76 computers with internet. Audio & Visual facilities. Currently this lab is being used for conducting Embedded systems lab, Digital Signal Processing Lab, Virtual Instrumentation Lab and Digital design Lab in addition to Awareness to Computer concepts lab and browsing facility. This lab has a unique feature of training 80 students at a time by using the Audio and Visual facilities.

Analog & Digital Electronics Lab :

This lab is equipped with Digital storage Oscilloscopes, Analog Oscilloscopes, Function generator and Power supply units of various ranges along with the other necessary equipment in which 60 students can work simultaneously.

Embedded Systems Laboratory :

This lab is equipped with 8086 Kits, 8051 kits, PIC microcontroller kits, ARM Processor kits etc. Also, a range of computer controlled instruments, Microprocessor and Microcontroller development systems.



Digital Signal Processing / Virtual Instrumentation Laboratory :

This lab is equipped with LabVIEW 7.1 and 8.1 software and National Instruments I/O cards are installed in these machines to carry out the hardware interfacing experiments and projects. DSP kits and other software enable students to conduct various types of experiments pertaining to instrumentation. The facility of this lab are currently being used for carrying out students projects in addition to the regular class work.

Facilities Available :

- Educational Laboratory Virtual Instrumentation (ELVIS)
- Data acquisition (DAQ) and Signal Conditioning Connector Block (SCXI)
- USB DAQ (Data acquisition)
- Distributed DAQ
- Compact RIO (Real Time Controller)
- Mission & Vision Card
- Vibration Card
- Black fin DSP kITS
- Tiger Shark DSP kITS
- TMS320C6713 Texas Instrument DSP kits.
- CG Signal Acquisition and QRS Detection Module
- Peripheral Pulse Rate Measurement Module
- Measurement of Heart Sound - Phonocardiogram Module
- Acquisition and Display of EMG, EOG and EEG Signals Module
- Measurement of Respiration Rate Module
- Demand type Pacemaker Module
- Blood Pressure measurement instruments
- Blood flow measuring instrument by ultrasound Doppler shift method
- EEG Analyzer

Process Instrumentation and Control Laboratory :

The Department has a well-equipped Process Instrumentation & Control Lab consisting of all the basic transducers and signal conditioning accessories. The lab is also equipped with Programmable Logic Controllers and modern table top Process control loops to conduct various process control experiments. The list of some of the major equipment available in the lab is shown below :

Facilities Available :

- Temperature Control Loop / trainer (SCADA)
- Flow Control Loop / trainer (SCADA)
- Level Control Loop / trainer (SCADA)

- Pressure Control Loop / trainer (SCADA)
- Multi Process trainer
- Flapper Nozzle System
- SCADA software
- SIEMENS PLC-S5
- SIEMENS PLC-S7
- Control Valve Characteristics Setup
- Electro Pneumatic converter Trainer
- Distributed Control Systems Trainer
- Bottle filling system
- Pick & Place robotic system
- Personal Computers

Project Laboratory :

This laboratory is equipped with 15 No. of Personal Computers with internet facility and general electronic equipment which are being used by the students of the final year & pre final year students to carry out their project works. This lab has a unique facility of Design and development of Printed circuit boards. The fabrication machine -Eleven Lab has a support of Altium Designer Software. Currently the facilities of this lab are being used by the students of Electronics & Instrumentation Engineering, Electronics & Communication, Telecommunication Engineering, Electrical & Electronics for the fabrication of the PCBs of their Project works.

Research Centre :

The R and D Centre in the Department of Electronics & Instrumentation Engineering was established in the year 2006 and is recognized by Visvesvaraya Technological University, Belagavi. The centre aims at carrying out research in the area of development of thin film sensors and Cognitive Nuero science. The centre also provides support to the students of UG and PG for carrying out their project works.



Facilities Available :

- Sputtering system with DC Magnetron & RF power supply
- Cold water circulation system
- Temperature controlled oven
- Spin coater
- E-Beam evaporating System
- Nano Voltmeter (2182)
- AC DC Current Source (6221)
- Programmable Function Generator
- Atomic Force Microscope (AFM)

Research Activities :

The department has a well established Research centre.

Areas of Research being carried out :

Thin Film Sensors and Cognitive Neuro Science

Sponsored Research Projects :

Completed :

1. Development of Thin Film Sensors Lab..
Funding Institution : VGST, Govt. of Karnataka
Amount : Rs.30.00 Lakhs

On going :

1. **Design & development of thin film Platinum RTD sensor for the online detection and measurement of engine inlet temperature on a Gas Turbine engine.**
Funding Institution : GTRE, DRDO
Amount : Rs. 8.76 Lakhs
Principal Investigator : Dr. V. Siddeswara Prasad Professor
Co-Investigators : Dr. H.M. Kalpana Professor & Head
Dr. Latha. H KE Associate Professor
2. **Design & development of Indium Thin Oxide Thin Film Strain Gauge Pressure Sensor.**
Funding Institution : VGST, Govt. of Karnataka
Amount : Rs. 30.00 Lakhs
Principal Investigator : Dr. Latha. H KE Associate Professor

No. of Ph.D.s Awarded : 02

No. of Research Scholars : 08

Research Publications :

National Conferences : 16
International Conferences : 11
National Refereed Journals : 13
International Refereed Journals : 21

Awards & Accolades (Faculty & Students) :

1. Aravinda Rao & Ajitha Mishra have won 2nd place in "PATRIKA" organized by PESCE, Mandya on 4th Mar. 2011.
2. Mohan Raj. T.N., Pradeep. J, Vaishali. K.S., Kavya. M.C. have won Auma Annual Challenge – 2010 "Best Project Award" by Auma India Pvt. Ltd., Bangalore on 22nd July 2011.
3. Mohan Raj. T.N., Pradeep. J, Vaishali. K.S., Kavya. M.C. have won "KSCST Project of the Year Award" at PES Institute of Technology Shimoga on 19-20 August 2011.
4. Kiran. B.K., has won First Prize in "ROBO-GP" held at GraVITas, VIT, Vellore on 16-18 September 2011.
5. Kiran. B.K., has won "Best Design Award" in "CRIK-O-BOTT" held at GraVITas, VIT, Vellore on 16-18 Sept. 2011.
6. Kiran. B.K., has won First Prize in "ROBO-MATRIX" held at GraVITas, VIT, Vellore on 16-18 September 2011.
7. Sudhindra Padithaya, Chandan. S.S. and Dhananjaya. H, have won First Prize in "ANGRYBOTS LAKSHMANAREKHA" held at IDEEAS-11 held at SIT, Tumkur on 2nd November 2011.
8. Chandan. S.S. & Kiran. B.K. have won First Prize in Technisium-12 - Line Follower Competition held at SIT, Tumkur on 17th April 2012.
9. Kiran. B.K., has won 2nd Prize in Technisium-12 - ROBORALLY Competition held at SIT, Tumkur on 17th April 2012.
10. Shayan Hasan & Anirban Chakraborty has won first place in "Savishkar-iFAST-2015 held at Maulana Azad National Institute of Technology, Bhopal on 26 - 28 Feb. 2015.
11. Kiran. B.K., Chandan. S.S., Meghana. S. and Sudheendra Padithaya. K., have won a cash prize of Rs. 50,000/- in a National Level Project Exhibition "Quest Ingenium" held at Bangalore.
12. Mr. Mithun Kumar G K Alumni of Electronics and Instrumentation Engineering has secured 130th rank in UPSC-2016.
13. Mr. Nikhil Kumar, Head of Developer Ecosystem, Alumni of Electronics and Instrumentation Engineering has developed BHIM app.
14. Mr. Shayan Hasan S of 8th semester Electronics and Instrumentation Engineering, SIT, Tumakuru has been selected to participate in the event "International Games-2017", hosted by SAIT Polytechnic, Calgary, Canada
15. Mr. Kumar Shubham has published a paper on the Project titled "Gesture Controlled Wheelchair with Object Detection" in the National journal of Instrumentation Society of India, under the guidance of Dr. H KE Latha.
16. The project: "Remote Patient Monitoring System using IOT" guided by Mr. Basavaraju K S, Assistant Professor, Dept. of E & IE, has bagged TCS Best project Award for the year 2016-17.
17. Chethan Shandilya has participated in the Annual Techfest - "iACT-2017" conducted by MIT Manipal on 4th & 5th March 2017 and bagged 2nd Prize.
18. Ritesh Sharma was finalist in "1st TNNLS Inter-Varsity Parliamentary Debate-18" held at Tamilnadu National Law School, Tiruchirappalli on 9-11 February 2018.
19. Sandhya. M, Shivani. R.S., Yashaswini. D.S. & Sneha. S, have won 3rd Place in "Tech Expo-2018" - A National Level Technical Exhibition held at SIT, Tumkur on 6th Oct. 2018.

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. V. Siddeswara Prasad, M.Tech., Ph.D. Professor	Electrical Contacts
2.	Dr. H.M. Kalpana M.Tech., Ph.D. Professor and Head	Thin Film Sensors
3.	P.P. Venkataramaiah, M.Tech. Professor	Electronics and Instrumentation
4.	Dr. G.R. Kiranmayi M.Tech., Ph.D. Associate Professor	Biomedical Signal Processing
5.	Dr. H.K.E. Latha, M.E., Ph.D. Associate Professor	Thin Film Sensors
6.	Dr. G.N. Keshava Murthy. M.E., Ph.D. Assistant Professor	Cognitive Neuro Science
7.	H.K. Ravi, M.Tech. Asst. Professor (Pursuing Ph.D.)	VLSI Design
8.	D. Savitha, M.Tech. Assistant Professor	Digital Electronics
9.	Chaitra. C, M.Tech. Assistant Professor	Power Electronics
10.	Rajeshwari. B.S, M.Tech. Assistant Professor	Signal Processing
11.	Basavaraju. K.S, M.Tech. Assistant Professor	Biomedical Signal Processing
12.	Kishore. C., M.Tech. Assistant Professor	VLSI Design and Embedded Systems
13.	Deepa, M.Tech. Assistant Professor	VLSI Design
14.	Ashwini. K.B., M.Tech. Assistant Professor	Digital Electronics

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Sep. 07-11, 1992	Electronic Devices & Circuits
2.	June 14-19, 1993	Electronic Circuits
3.	Aug. 16-22, 1993	Computer Oriented Numerical Analysis
4.	Jan. 17-22, 1994	Power Electronics
5.	July 02-09, 1994	Integrated Circuits and Applications
6.	Mar. 01-07, 1995	Electric Circuits
7.	Sept. 04-09, 1995	Microprocessors - I
8.	Mar. 04-09, 1996	Microprocessors - II
9.	July 08-13, 1996	Advanced Microprocessors - I
10.	Jan. 06-11, 1997	Signal Processing - I
11.	Oct. 03-09, 1997	Signal Processing - II (DSP)
12.	Mar. 09-14, 1998	Programming in "C

Sl. No.	Date	Subject
13.	Aug. 19-22, 1998	Computer Application in C
14.	Feb. 08-13, 1999	Programming in C++
15.	Sep. 14-18, 1999	Signals & Systems
16.	April 13-16, 2001	MATLAB
17.	Sept. 3-8, 2001	Digital Signal Processing
18.	Feb.25 - Mar.2, 2002	Digital Filters
19.	Aug. 26-31, 2002	Linear Algebra
20.	Feb. 23-28, 2003	Probability & Random Process
21.	Aug. 21-27, 2003	PC based data acquisition monitoring and control
22.	Jan. 6 to 07 Feb 2004	Power Electronics/Field Theory
23.	Aug. 23 to 28 2004	Flow measurement.
24.	Aug. 17 to 23 2005	Process Instrumentation Lab
25.	Feb.06 to Mar.05,2005	DSP/multimedia Communication
26.	Feb. 06 to 11, 2006	Virtual Instrumentation
27.	Aug. 08 to 12, 2006	Analog Electronics Lab and Process Instrumentation Lab
28.	Jan.29 to Feb.03, 2007	Virtual Instrumentation as Tool in Engg. Education
29.	Aug. 05 to 11, 2007	Academic Autonomy
30.	Jan.29 to Feb.02, 2008	VHDL
31.	August 1-7,2008	Computational methods in Electrical Engg.
32.	Jan 19 th to 24 th , 2009	Fuzzy logic & neural networks
33.	Aug, 4 th -10 th 2009	Teacher as a resonating role model
34.	24 th to 30 th Jan'2010	DSP on TMS Kits & VHDL
35.	25 th to 30 th June 2010	Challenges in Micro/Nano Electronics
36.	20 th to 27 th Jan'2011	Linear Algebra / Computational Methods
37.	24 th to 30 th June 2011	Curriculum Design, Multi Core Architecture / Pedagogy
38.	15 th to 20 th June 2012	Embedded Systems and PCB Design
39.	24 th to 29 th June 2013	FPGAS for Signal and Image Processing
40.	23 rd to 27 th June 2014	Advanced Digital Design using VHDL
41.	13 th to 19 th July 2016	Microcontrollers and its Applications
41.	21 st to 26 th Dec. 2016	Things to Analytics
42.	23 rd to 28 th July 2017	Industrial Process Automation
43.	20 th to 26 th April 2018	Automation & Mechatronics
44.	22 nd to 27 th April 2019	Bio Sensors, Smart Sensors and its applications

MoUs :

1. Agraj Automation, Bangalore
2. CDAC, Bangalore
3. SM Electronics, Bangalore.

Bridge courses conducted for students :

- 1 Industrial Automation**
Students : V sem. E & IE
Resource Persons : Agraj Automation, Bangalore
Duration : 6 days, 21-26th Dec. 2016
- 2 Python Programming & Raspberry Pi**
Students : VI Sem. E & IE
Resource Persons : Data Strat Pvt., Ltd., Bangalore
Duration : 3 days, 10-12th Feb. 2017
- 3 ARDUINO Microcontrollers**
Students : IV Sem. E & IE
Resource Persons : Sun Softronic Systems, Bangalore
Duration : 2 days, 16-17th Feb. 2017
- 4 Practical Applications of Raspberry Pi using Python**
Students : V sem. E & IE
Resource Persons : Data Strat Pvt., Ltd., Bangalore
Duration : 2 days, 12th to 14th Aug. 2017
- 5 ARDUINO Programming**
Students : IV Sem. E & IE
Resource Persons : Technofly Solutions, Bangalore
Duration : 2 days, 17th -18th Feb. 2018
- 6 Machine Learning**
Students : VI Sem. E & IE
Resource Persons : Honeywell, Bangalore
Duration : 2 days, 9th -10th Feb. 2018
- 7 Python Programming**
Students : V Sem. E & IE
Resource Persons : Cranes Software Solutions, Bangalore
Duration : 4 days, 9th -12th Oct. 2018
- 8 ARDUINO Microcontrollers**
Students : IV Sem. E & IE
Resource Persons : Cranes Software Solutions, Bangalore
Duration : 4 days, 6th -10th March 2019
- 9 Workshop on Technical Writing, Publishing and Grant Winning**
Students : VIII Sem. E & IE & M.Tech
Resource Persons : Mr. Abishek. A, Asst. Prof.,
BMSCE, Bangalore
Duration : 27th March 2019

Advisory Board

Chairman :

1. Dr. H.M. Kalpana

Professor & Head
Dept. of Electronics & Instrumentation Engg., S.I.T., Tumkur

Convener :

2. Dr. G.R. Kiranmayi

Associate Professor, Dept. of E&IE,, S.I.T., Tumkur

Internal Members :

3. Dr. V. Siddeswara Prasad

Professor, Dept. of E&IE,, S.I.T., Tumkur

4. Dr. H.K.E. Latha

Associate Professor, Dept. of E&IE,, S.I.T., Tumkur

5. Dr. G.N. Keshava Murthy

Assistant Professor, Dept. of E&IE,, S.I.T., Tumkur

Members from other Academic Institution :

6. Dr. Jayadevappa. D.

Professor & Head, Dept. of Electronics & Inst. Engg.
JSSATE, Bengaluru

Members from Industries :

7. Dr. Kishore Kumar

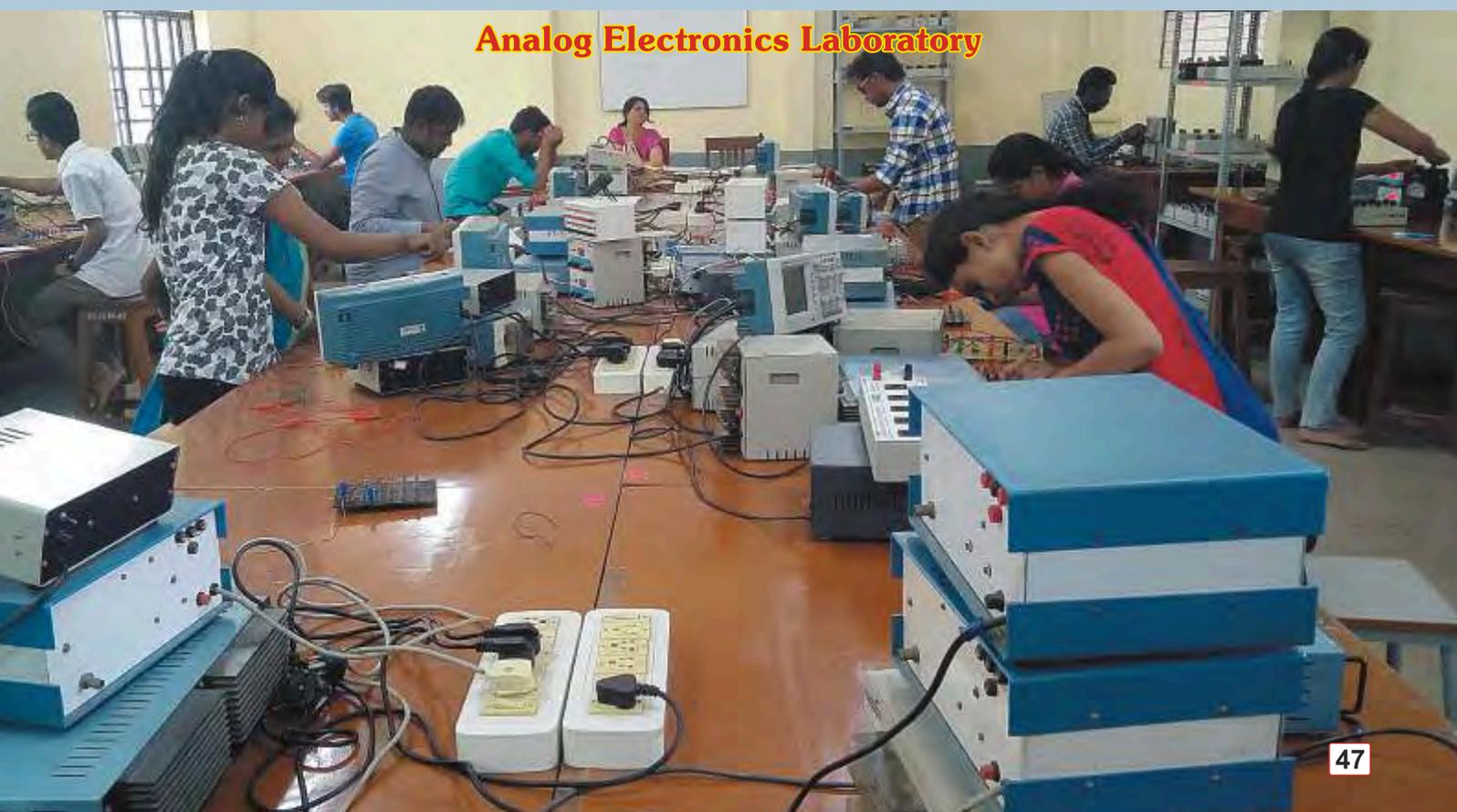
Senior Technical Specialist
Philips Electronics India Ltd., Bengaluru

8. Sri. Venkatakrishna

Director - Engineering
PiiTech Systems Pvt. Ltd., Bengaluru

9. Dr. Sridhar. K.N.

Associate General Manager
NEC Technologies India Ltd., Bengaluru.





Department of Industrial Engg. & Management

Year of Establishment : 1986

Courses Offered :

UG Programme :

B.E. Industrial Engineering & Management

PG Programmes :

M.Sc. (Engg.) by Research

Ph.D. Programme :

Ph.D. in Industrial Engineering & Management

Mission of the Department :

- ♦ To practice the philosophy of learning-teaching-learning and adopt the latest tools and techniques for the effective dissemination of knowledge in the field of Industrial Engineering and Management. .
- ♦ To collaborate with academic institutions, industry and research organizations to establish Centers of Excellence (COE) in emerging areas and promote research and consultancy.
- ♦ To impart training for the overall development of students and inculcate commitment for social responsibility.

Short Range Goals :

- ♦ Developing FMS and Rapid Prototyping Laboratory.
- ♦ Starting new PG course in Product Design and Manufacturing.
- ♦ Revenue generation by conducting training program for Industry people in areas like 5s, Kaizen, TPM, TQM, Lean, Six-Sigma and SPC.
- ♦ Obtaining funded projects from any of the funding agencies like VTU, DST, AICTE and UGC.
- ♦ Strengthening the industry- institute interaction.

Long Range Goals :

- ♦ Doing consultancy for local industries.
- ♦ Enhancing the research activity by encouraging the faculty to pursue their PhD and actively involving in research activities.
- ♦ To establish global reputation as a world-class research and education institution.

Facilities :

Department laboratories are well equipped to carry out the prescribed experiments. The department has *Material Testing and Foundry Laboratory* : students

carry out various test for testing engineering materials and foundry sand, *Work Study and Ergonomics Laboratory* : students carry out methods analysis and develop improved methods of doing operations, estimate time standards for the jobs, *Metrology and Measurement Lab* : students carryout various kind of measurement and calibration of equipment, *Quality Engineering Laboratory* : students perform statistical experiments like checking the goodness of fit for the observed data, plotting the appropriate control charts for the given situation, designing acceptance sampling procedures, uses MiniTab software for all statistical and quality analysis purposes. *Computer Center* : Provides hardware and software facilities for conducting Computer Aided Drawing, Computer Aided Manufacturing (CAM), Simulation Modeling and Analysis, Enterprise resource planning Laboratory, Finite Element Analysis (FEM). The department has 60 computers connected to 250mbps LAN and access to internet. The computer laboratory has many software and these software are part of various laboratory courses in B.E. Department has a separate research centre for research scholars pursuing Ph.D.

Material Testing and Foundry Laboratory :

Students conducts experiment to test tensile, shear, compression, torsion and bending tests, impact test, Rockwell, Brinel hardness and Vickers hardness test on materials. Non-destructive test Ultrasonic flaw detector, Magnetic crack detector, Dye penetration testing, Tensile strength of core sand, Compression strength & Shear strength, permeability, core and mould hardness, Graininess number clay content of molding sand. The facilities include :

Muffle Furnace, Sand Rammer, Sieve Shaker with Sieve Set, Rapid Moisture Meter, Permeability Meter, Universal Strength M/C Hydraulic, with attachments, Core and Mould Hardness Tester, Clay Washer, Electronic Balance, Carbon Dioxide Cylinder, Transverse Cone Box, Tensile Core Box.

Mechanical Measurement & Metrology Laboratory :

Provides facilities to students to carryout calibration of equipments, measurement of linear such as straightness, flatness and angular dimensions, elements of threads, gears and angular, surface roughness and roundness and non physical parameters temperature, displacement, load, force, strain. The facilities includes :

Slip Gauge Sets, Sine Bar and sine centre, Micrometers, Thread Micrometer with anvils, Floating Carriage, Gear tooth Micrometer, gear Tooth Vernier, Profile Projector,

Autocollimator, Mechanical and Pneumatic Comparator, Vibration sensors, Load Cell, Dead weight pressure gauge, stroboscope, Cathode Ray Oscilloscope, Two and Three wire sets, Dial Gauges and spirit levels, surface plate.

Computer Center / Research Centre :

The department computer centre is well equipped with latest hardware, local area network and software to impart computer skill to all the students in the area of Industrial Engineering & Management. The following are the facilities available in the department.

Hardware Facilities :

- Work Station HPXW 6400 Work station (Intel 5000X Chipset)
- Personnel Computers with latest configuration - 65 Nos.

Software Facilities :

- SYSTEM SOFTWARE: Windows XP, Windows 7 Operating Systems
- MS Office Word Processing, Analysis, presentation and reporting software
- ARENA Simulation modeling& Analysis Software
- SIXTH SENSE Enterprise resource planning software
- MINITAB Statistical Analysis and Modeling Software
- EXTEND Millennium manufacturing modeling& simulation software
- OPTIMIZATION SOFTWARE : STORM, MICROMODEL, QSA, TORA, Optimization software (operation research)
- CAD SOFTWARES : AUTOCAD, SOLID EDGE, SOLID WORKS - Computer aided Drafting, Modeling and analysis software
- CAM SOFTWARES CADEM CAPS Turn CAPS Mill NXCAM SIM CIM, Manufacturing Modeling and Simulation software

Work Study and Ergonomics Laboratory :

- Peg Board assembly Gadget To demonstrate rating and standard time estimation and principles of motion economy.
- Bolt Nut washer Assembly Gadget To demonstrate principle of motion economy.
- Multi-parameter Monitor to demonstrate the measurement of body parameter such as blood pressure, heart rate, oxygen consumption, co2 exhaled under different working in the industry
- Venky Thread Mill To demonstrate the principle of speed rating using walking simulator
- Electric Ergometer To demonstrate the measurement of effort by estimating oxygen consumption under different load condition of cycling.
- Luxmeter To measure the intensity of light during working condition and its effect on worker.
- Anthropometer - To measure various body parameters of human workers.

Quality Engineering Laboratory :

- Poisson distribution Gadget : To demonstrate the goodness of fit.
- Normal Distribution Gadget : To demonstrate the goodness of fit.
- Binomial Distribution Gadget : To demonstrate the goodness of fit.
- Uniform Distribution Gadget : To demonstrate the goodness of fit.
- Acceptance Sampling Gadget : To demonstrate the design of sampling plan and performance evaluation of acceptance sampling.
- CATAPULT Gadget : To demonstrate the design of experiment and effect of parameters using simulated setup.
- Quincunx Gadget : To demonstrate the variation principle and process control
- Personal Computers with latest Configuration = 10
- MINITAB Quality control software with 15 user license

Research Activities :

- **Areas of Research being carried out :** Composite Materials, Nano Composites, welding modeling and simulation, Manufacturing modeling, simulation and analysis, CAD/CAM, Ergonomics, Quality Engineering, Lean Six Sigma, Total quality Management, Supply Chain Management.

Sponsored Research Projects :

Ongoing :

1. "Modeling and Analysis of Gas Turbine Blade Behaviour to Predict Turbine Blade Resonance Amplitudes".

Funding Institution : GTRE, Bangalore
 Amount : Rs. 9.977 lakhs
 Principal Investigator : Dr. J.P. Ganjigatti

No. of Ph.D.s Awarded : 02

No. of Research Scholars : 10

Research Publications :

National Conferences : 25
 International Conference : 95
 National Refereed Journals : 15
 International Refereed Journals : 126

MoUs :

1. Fitwel Tools and Forgings Pvt. Ltd., Tumkur
2. CADEM Technologies Pvt. Ltd., Bangalore
3. Govt. Tool Room & Training Centre, Bangalore
4. L M Wind Power Blades Pvt. Ltd., Bangalore

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. J.P. Ganjigatti M.Tech., Ph.D. Professor & Head	CAD/CAM Robotics, MIS, Software Engg., Fuzzy Logic, Statistics, SQC, DBMS,
2.	Dr. R.S. Kadadevara Math M.E., Ph.D. Professor	Production Mgmt., MIS Operations Mgmt., Supply Chain Mgmt., Software Engg.
3.	Dr. G.V. Prabhushankar M.E., M.B.A., Ph.D. Professor	Operations Mgmt., Marketing Mgmt., Industrial Engg., Six Sigma & Lean Mfng., Production Management, Six Sigma Black Belt
4.	C.E. Megharaj , M.Tech. Associate Professor (Pursuing Ph.D.)	Manufacturing Process, FAM, Maintenance Engg., TQM, Organizational Behavior
5.	Dr. B. Adaveesh , M.E., Ph.D. Associate Professor	Manufacturing Sc.& Engg. Project Management, Operations Research, SOM, Materials Mgmt., IPE
6.	Dr. B. Latha Shankar M.Sc. (Engg.), Ph.D. Associate Professor	Material Sc. & Metallurgy, Thermodynamics, CIM, Material Science, IPE
7.	T.R. Veena , M.Sc. (Engg.) Assistant Professor (Pursuing Ph.D.)	Material Sc., DBMS, IPE, Materials Management, Engineering Economics, Indl. Engg. Simulation, Mod & Analy.
8.	Dr. K.V. Manjunath , M.Tech., Ph.D. Assistant Professor	Manufacturing Science, Manufacturing Process, Materials Management
9.	K.H. Puneeth , M.Tech. Assistant Professor	Master of Engineering Management
10.	Prashanth. P , M.Tech. Asst. Professor (Pursuing Ph.D.)	Computer Integrated Manufacturing
11.	Nagaraj. P.M. , M.Tech. Asst. Professor (Pursuing Ph.D.)	Machine Design
12.	Vishwas. M , M.Tech. Assistant Professor (Pursuing Ph.D.)	Product Design and Manufacturing
13.	Vijay Kumar , M.Tech. Assistant Professor	Industrial Engineering and Management
14.	Mohan Kumar T.S. , M.Tech. Assistant Professor	Computer Integrated Manufacturing
15.	Anil. K.C. , M.Tech. Asst. Professor (Pursuing Ph.D.)	Production Technology, Composite Materials

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Sep. 07 - 12, 1992	Engineering Graphics
2.	June 14 - 19, 1993	Control Engineering
3.	Aug. 16 - 21, 1993	Computer Oriented Numerical Techniques
4.	Jan. 17 - 22, 1994	Dynamics of Machines
5.	July 02 - 09, 1994	Machine Design
6.	Mar. 01 - 07, 1995	Industrial Metrology and Quality Control
7.	Sept. 04 - 09, 1995	CAD/CAM and Robotics
8.	Mar. 04 - 09, 1996	Operations Research
9.	July 08 - 13, 1996	Thermodynamics & Heat Transfer
10.	Jan. 06 - 11, 1997	Production & Operations Mgmt.
11.	Oct. 03 - 09, 1997	Materials Science & Metallurgy
12.	Mar. 09 - 14, 1998	Database Management Systems
13.	Aug. 17 - 22, 1998	Programming in 'C' (part I)
14.	Feb. 08 - 13, 1999	Programming in 'C' (part II)
15.	July 14 - 19, 1999	Computer Aided Drafting
16.	Apr. 13 - 16, 2001	Simulation Modeling & Analysis Oracle - 8
17.	Sept. 3 - 10, 2001	Supply Chain Management
18.	Feb.25 - Mar.2, 2002	Organisation Behavior
19.	Aug. 26 - 31, 2002	Total Quality Management
20.	Mar. 23 - 28, 2003	Advanced Operation Research
21.	Jan. 16 - 18, 2004 Feb. 05 - 07, 2004	Six Sigma and Design of Experiments
22.	Feb.27- Mar.04, 2005	Mechatronics & MEMs
23.	Aug. 16 - 21, 2005	Finite Element Techniques
24.	Feb. 06 - 11, 2006	CAED
25.	Aug. 04 - 12, 2006	Professional Development Programme
26.	Jan.29-Feb.03, 2007	Academic Autonomy
27.	Aug. 06 - 11, 2007	Computer Aided Machine Drawing
28.	Jan. 28-Feb.02, 2008	CAED, CAMD using Smart Board & Foundry Metallurgy
29.	Aug. 01 - 07, 2008	Modelling, Simulation and Analysis using Arena
30.	Jan. 19 - 24, 2009	Engineering Economics
31.	Jan. 24 - 30, 2010	Applied probability and statistics for Engineers
32.	June 24 - 30, 2010	Software Applications in Indl. Engg.
33.	Jan. 20 - 27, 2011	Training on work study
34.	June 25 - 30, 2012	Professional software and Mini Tab software
35.	June 22 - 27, 2013	Six Sigma Black Belt
36.	May 25 - 30, 2015	Research Methodology - I
37.	Jan. 25 - 30, 2016	Research Methodology - II
38.	July 13 - 19, 2016	Advanced Manufacturing Methods
39.	Dec. 21 - 26, 2016	Lab View & 3D Modelling using Solid Works in Mechanical Engg.
40.	February 19, 2017	Research Literacy : Academic Writing, e-resources & research quality indicator
41.	July 23 - 28, 2017	Project Management
42.	April 20 - 26, 2018	Automation & Mechatronics
43.	April 22 - 27, 2019	Outcome Based Education



Computer Centre



Work Study & Ergonomics Lab

Advisory Board

Chairman :

1. Dr. J.P. Ganjigatti

Professor & Head, Dept. of Industrial Engg. & Mgmt.
S.I.T., Tumkur - 572103

Convenor :

2. Dr. Rajeshwar. S. Kadadevarmath

Professor, Dept. of IEM, SIT, Tumkur

Members from other Academic Institution :

3. Dr. Badarinarayan

Principal, M.S. College of Engineering, Bengaluru

4. Dr. G.N. Mohan Babu

Principal, BMSIT, Bengaluru

Member from Industry :

5. Mr. Swamy M K

Deputy General Manager
Toyota Kirloskar Motor, Bengaluru

6. Mr. P.S. Sridhara Murthy

Sr. General Manager
Stovekraft Pvt. Ltd., Bengaluru

7. Mr. Thej Kumar

Deputy General Manager
TG Kirloskar Automotive Pvt. Ltd., Bengaluru

8. Mr. T. Shivanandam

Director - Thiru Veni Consultants, Bengaluru

Internal Members :

9. Dr. G. V. Prabhushankar

Professor, Dept. of Industrial Engg. & Mgmt., SIT, Tumkur

10. Anbalagan Heroji

Head, Dept. of Training & Placement, SIT, Tumkur

Awards and Accolades (Faculty & Students) :

Dr. J.P. Ganjigatti, Professor & Head, IEM, is a
Editorial Member of Journals :

- Journal of Industrial Safety & Safety Engg. (JISE)
- Intl. Journal of Production Engg. (IJPE)
- Intl. Journal of Industrial & Product Design (IJIEP)
- Intl. Journal of Computer Aided Mfg. (IJCM)

Dr. G.V. Prabhushankar, Professor, IEM, is a referee for :
- African Journal of Business Management

Dr. Rajeshwar. S. Kadadevarmath, Professor, IEM,
Presently working as :

Associate Editor, International Journal of Business and
Systems Research (IJBSR) Inderscience Publishers, UK,
<http://www.inderscience.com/ijbsr>

Editorial Board Member :

- International Journal of Revenue Mgmt. (IJR),
Inderscience Publishers, UK
- Journal of Industrial Engineering and Management
(International) OMICS Publishing Group 5716
Corsa Ave, Suite 110, Westlake, Los Angeles, USA

Shivaswaroop, 8th sem. student has participated in more
than 15 robotics competitions arranged by various
colleges in the country and won :

1. First Prize (50k) in International conference arranged
by VIT, Vellore, Tamil Nadu and
2. First Prize (25k) in International conference arranged
by Anna University Tamil Nadu.

Mr. S. Manjesh, 5th sem. won \$4000 USD for revealing
bugs in Facebook security.

Metrology Laboratory





Department of Computer Science and Engineering

Year of Establishment : 1986

Courses Offered :

UG Programme :

B.E. Computer Science & Engineering

PG Programmes :

M.Tech. - Computer Science & Engineering

M.Tech. - Computer Network Engineering

Ph.D. Programme :

Ph.D. in Computer Science & Engineering

Vision of the Department :

To work towards the vision of the institution by building a strong teaching and research environment that is capable of responding to the challenges of the 21st century.

Mission of the Department :

To prepare under graduate, graduate and research students for productive careers in industry and academia, through comprehensive educational programs, entrepreneurship skills, research in collaboration with industry & government, dissemination by scholarly publications, co-curricular activities and professional society associations.

Short Range Goals :

- ◆ Improve Industry-Institute interactions to get inputs for curriculum development and reduce the gap between industry and academia.
- ◆ Encourage students to take up innovative projects to solve day to day societal problems.
- ◆ Motivate students to take up research activities and publish papers in refereed journals and conferences.
- ◆ Enhance students' internships in industries.
- ◆ Involve industry in evaluating projects and research works of UG and PG students.
- ◆ Increase the faculty interactions with reputed institutions / universities at national and international level.
- ◆ Improve the effectiveness of teaching by inculcating new pedagogical approaches.
- ◆ Organise sponsored workshops and conferences.
- ◆ Utilize professional body membership like IEEE, ACCS, CSI, ACM to organize technical programmes for faculty and students.

Long Range Goals :

- ◆ Establish centers of excellence in some of the cutting edge technologies.
- ◆ Offer consultancy to industry.
- ◆ Promote entrepreneurship skills among students through incubation.

Facilities :

Sl. No.	Laptop / Computer / Server	Quantity
1	Computer	396
2	Laptop	11
3	Server	04
4	Printer	10
5	Switch	15
6	LCD Projector	06

Computer Maintenance Cell / Computer Network Maintenance Cell) – Under CSE Department

1	Server	03
2	Computer	05
3	Switch	08

Laboratory courses conducted with the existing infrastructure :

- **Bhaskara Computer Centre**
C Programming Lab
- **Aryabhata Computer Centre**
Data Structures Lab, Microcontroller Lab, Analog and Digital Circuits Lab
- **Rohini Computer Centre**
Object Oriented Programming with C++ Lab, Java Programming Lab, Analysis & Design of Algorithms Lab, Operating System and Compiler Design Lab
- **Linux Laboratory**
Networks Programming Lab, Cryptography & Network Security Lab, Database Management Lab, Computer Graphics Lab
- **Project Laboratory**
Mini Projects and Major Projects - Innovative ideas implementation in the areas such as Cloud Computing, Data Analytics, Mobile Computing, Network & Information Security, Wireless Sensor Networks etc.
- **M.Tech CSE and CNE Laboratory**
Lab work on Cloud set up, Network Programming, various protocol implementations Advanced Algorithms, Big data, Machine Learning, Distributed Computing etc.
- **Research Laboratory**
Research work on Wireless sensor networks, Cloud Computing, IoT, Security, Neural Networks, Big data etc.

Research Activities :

Areas of research :

Information Security, Computer Networks, Protocol Engineering, Soft Computing Techniques, Sensor Networks, Secure Group Communication, Storage Networks, Adhoc Networks.

Sponsored Research Projects :

Completed :

1. Open Field Experiments for Evaluation of WLAN Performance.

Funding Institution : ABB
Amount : Rs. 1.05 lakhs
Principal Investigator : Dr. B. Sathish Babu
Co-Investigator : Mr. G. Bhaskar

2. Device cyber security : Digital Signatures.

Funding Institution : ABB Group, Bangalore
Amount : Rs. 1.78 lakhs
Principal Investigator : Dr. N.R. Sunitha

3. Design and Performance Evaluation of Algorithms for Key Management and Security of Routing Protocols for Distributed Sensor Networks.

Funding Institution : AICTE, New Delhi
Amount : Rs. 6.78 lakhs
Principal Investigator : Dr. N.R. Sunitha

4. Generic Key Management Infrastructure

Funding Institution : ABB
Amount : Rs. 7.00 lakhs
Principal Investigator : Dr. B. Sathish Babu
Co-Investigator : Dr. N.R. Sunitha

5. Adaptive trust based Security System for ubiquitous networks.

Funding Institution : VTU
Amount : Rs. 5.39 lakhs
Principal Investigator : Dr. B. Sathish Babu
Co-Investigator : Dr. R. Sumathi

6. Techniques for Security on Adhoc Networks.

Funding Institution : DRDO
Amount : Rs. 9.614 lakhs
Principal Investigator : Dr. N.R. Sunitha

7. MHRD project for AKASH.

Funding Institution : IIT Bombay
Amount : Rs. 1.00 lakhs
Principal Investigator : Mr. K.R. Prasanna Kumar

On going :

1. Creating side-channel attacks infrastructure frameworks.

Funding Institution : ABB Global, Bangalore
Amount : Rs. 15.00 lakhs
Principal Investigators : Dr. B. Sathish Babu
Dr. N.R. Sunitha
Dr. R. Aparna
Dr. A.S. Poornima

2. Formal Verification of Security Protocols in Network Devices.

Funding Institution : DRDO, New Delhi
Amount : Rs. 22.31 lakhs
Principal Investigator : Dr. N.R. Sunitha
Co-Investigator : Mr. Ravi. V.

3. Butter Milk Vending Machine.

Funding Institution : KBITS, Govt. of Karnataka
Amount : Rs. 2.00 lakhs
Principal Investigator : Mr. G. Bhaskar

4. Kisan Mitra.

Funding Institution : KBITS, Govt. of Karnataka
Amount : Rs. 60,000/-
Principal Investigator : Mr. C.P. Prabodh

5. Academic Time Table Management Tool under CBCS.

Funding Institution : AICTE, New Delhi
Amount : Rs. 3,00,000/-
Principal Investigator : Mr. C.P. Prabodh

No. of Ph.Ds awarded : 16

No. of Research Scholars : 24

Research Publications :

National Conference : 21

International Conference : 260

International Refereed Journals : 169

No. of Book Chapters : 06

No. of Patents filed : 13

Aryabhata Computer Centre



Faculty Development Programmes

Sl. No.	Date	Subject
1.	June 14-19, 1993	Data Base Management System
2.	Jan. 17-22, 1994	Logic Design
3.	July 02-09, 1994	Unix & C
4.	March 01-07, 1995	System Software
5.	Sept. 04-09, 1995	Oracle 7.0 (RDBMS)
6.	March 04-09, 1996	VLSI Design
7.	July 08-13, 1996	Data Structures using C
8.	Jan. 06-11, 1997	C++(object oriented programming)
9.	Oct. 03-09, 1997	Visual C++
10.	March 09-14, 1998	Windows Programming
11.	August 17-22, 1998	Developer 2000
12.	Feb. 08-13, 1999	JAVA
13.	Sept. 14-19, 1999	Visual Basic 6.0
14.	Apr. 13-16, 2001	Active Server Pages
15.	Sept. 03-08, 2001	Artificial Neural Networks & Engg. Applications
16.	Feb. 25-Mar. 2, 2002	Modern Software Engineering Practices using Rational Rose
17.	Aug. 26-31, 2002	Network Programming
18.	Feb. 23-28, 2003	Wireless & High Speed Networks
19.	Aug. 21-27, 2003	Mathematics of Computation-I (Computational Group Theory)
20.	Jan. 16-18, 2004 Feb. 05-07, 2004	Topics in Algorithms
21.	Aug. 23-28, 2004	Randomized Algorithms
22.	Feb.27-Mar.04, 2005	Multimedia & Communications
23.	Aug. 17-23, 2005	Probability and Computation-I
24.	Feb. 06-11, 2006	.NET Technology
25.	Aug. 07-12, 2006	Data Mining & Distributed Databases
26.	Jan.29-Feb.03, 2007	Professional Development Programme
27.	Aug. 06-11, 2007	Academic Autonomy
28.	Jan. 28-Feb.02, 2008	Advanced Databases & Advanced Software Project Management
29.	Aug. 01-07, 2008	Linux Programming Environment
30.	Jan. 19-24, 2009	Computer Graphics and Visualization
31.	4th to 8th & 10th Aug. 2009	Teacher as "The Resonating Role Model"
32.	Jan. 24-30, 2010	Semantic Web, Nature Inspired Computing and Algorithms
33.	June 25-30, 2010	Embedded Systems
34.	Jan. 20-27, 2011	Software Architecture
35.	June 24-30, 2011	Pedagogy
	June 25-27, 2011	Multicore Architecture
	June 23-24, 2011	Qualnet Simulator
	June 30, 2011	Curriculum Design
36.	June 25-30, 2012	Free Software, Cyber Crime and Ethical Hacking, Neural Networks Research Methodology Faculty Empowerment Programme
37.	June 24-29, 2013	Big data Management & Machine Learning
38.	Jan. 05-07, 2015	PEDAGOGY (IITB)
39.	Jan. 18-20, 2015	PEDAGOGY (IITB)
40.	Jan. 17-19, 2015	PEDAGOGY (SIT)
41.	Nov. 23-28, 2015	Microcontrollers - 8051
42.	July 13-19, 2016	Data Analytics & Machine Learning
43.	Dec. 21-26, 2016	Industry oriented Software Project Management
44.	July 23-28, 2017	R & Python Programming on Data Analytics
45.	April 20-26, 2018	Programming using Python and R-Tool
46.	April 22-27, 2019	Block Chain Technology

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. R. Sathish, M.Tech., MBA, Ph.D. Professor	P2P Networks
2.	Dr. Y.S. Nijagunarya, M.Tech. Ph.D. Professor	Artificial Intelligence, Fuzzy Logic
3.	Dr. N.R. Sunitha, M.S., Ph.D. Professor	Cryptography & Network Security, Storage Area Networks, Big Data Processing Industrial Automation
4.	Dr. R. Sumathi, M.E., Ph.D. Professor & Head	Wireless Sensor Networks, Mobile Adhoc Networks, Cloud Computing, Software defined Networks
5.	Dr. A.S. Poornima, M.Tech., Ph.D. Professor	Cryptography and Network Security, Security in Wireless Sensor Networks, Routing issues in Ad Hoc Wireless Networks, Cloud Security
6.	Dr. K.N. Shreenath, M.E., Ph.D. Associate Professor	Wireless Sensor Networks, Distributed Systems, Theory of Computation
7.	Dr. M.B. Nirmala, M.Tech., Ph.D. Associate Professor	Computer Networks, Cryptography and Network Security, Security in Wireless Sensor Networks
8.	Dr. K.G. Manjunath, M.Tech., Ph.D. Assistant Professor	Cloud computing, ADHOC Networks, Big Data Processing
9.	Shantha Kumara. A.H., M.Tech. Assistant Professor (Pursuing Ph.D.)	Storage Security and applications of Cryptology, Data Mining and Analysis
10.	A.V. Krishna Mohan, M.E. Assistant Professor	Compiler Construction, Theory of Computation, Big Data
11.	Bhaskar. G., M.Tech. Assistant Professor	Peer to Peer Networks, Foundations of Computer Programming, Wireless Sensor Networks
12.	Srinivasa K., M.Tech. Assistant Professor (Pursuing Ph.D.)	Natural Language Processing, Information Retrieval, Programming Language
13.	Raghavendra M., M.E. Assistant Professor	Wireless Sensor Networks, Java Programming
14.	Kavitha M., M.Tech. Assistant Professor	Natural Language Processing, Data Structures & Algorithms, Programming Languages
15.	Prasanna Kumar. K.R., M.Tech. Assistant Professor (Pursuing Ph.D.)	Cryptography, Wireless Sensor Networks
16.	S. Thejaswini, M.Tech. Assistant Professor	Data Structures & Algorithms, Information Security & Big Data
17.	V. Ravi, M.Tech. Assistant Professor	Computer Networks, Cryptography and Network Security, Internet of Things, Formal Methods
18.	S. Nayana, M.Tech. Assistant Professor	Wireless Mobile Networks, Android Mobile Application Development, Data Communication

Sl. No.	Name and Designation	Field of Interest/ Specialisation
19.	Nousheen Taj , M.Tech. Assistant Professor	Cloud Computing, Resource Sharing in SOC , Cloud Sim based Simulations
20.	R.M. Savithramma , M.Tech. Assistant Professor	Programming, Cloud Computing, Data Analysis
21.	Gururaj. S.P , M.Tech. Assistant Professor	Cloud Computing, Data Structures and Algorithms, Programming Languages, Computer Network, Data Analytics
22.	E. Guruprasad , M.Tech. Assistant Professor (Pursuing Ph.D.)	Java, Web Design Technique, Web2.0 and Rich Internet Application Digital and Analog Electronics (VHDL Coding), Software Engineering and Software Testing
23.	H.D. Kallinatha , M.Tech. Assistant Professor (Pursuing Ph.D.)	Network on Chip (NOC), Cloud Computing, SDN and Data Centers, High Performance Computing, ICT based Teaching and Learning, Engineering Pedagogy with a special interest in CSE
24.	Vedamurthy. H.K , M.Tech. Assistant Professor	IOT (Internet of things), Computer Networks, Data Structures and Algorithms
25.	B.P. Ashwini , M.Tech. Assistant Professor	Big Data, Data Analytics, Engineering Education
26.	Chandraprabha , M.Tech. Assistant Professor	Data Mining, Machine Learning, Cloud Computing
27.	Prabodh. C.P. , M.Tech. Assistant Professor	Free & Open Source Softwares and Education Technologies, Security & Cryptography, Big Data
28.	Bhargavi. K. , M.Tech. Assistant Professor (Pursuing Ph.D.)	Application of Cognitive agents in Health Care Application, Machine Learning, High Performance Computing
29.	Thejas. G.S. , M.Tech. Assistant Professor (Pursuing Ph.D.)	Human Computer Interaction, Programming Languages
30.	Shruthi. K. , M.Tech. Assistant Professor	Cloud Computing, Robotics

Awards & Accolades (Faculty & Students) :

Faculty :

- Dr. N R Sunitha - IBM Academic Initiative Mentor Award
- Dr. B. Sathish Babu - Best Ph.D. thesis from BITES - Karnataka, year 2009

Students Achievements :

- Niraj Agarwal participated in National Exhibition on Innovative & Futuristic Approaches in Science & Technology held at Bhopal on 26-28 Feb. 2018 and secured first position for his innovative idea.
- Team consists of Archana S, Rishav Kumar Goswami, Nishank Kumar Pandey, Pathikrit Pal, Rishav Raj and Kushal Nagaraj lead by Mr. Prabodh. C.P., Asst. Prof., secured 3rd place in **Smart India Hackathon-2017** held on April 1st and 2nd at Manipal for developing "**Academic Time Table Management Tool**".
- Team consists of Basavanna H G, Abhishek R and Darshan D S , VIII Semester B.E. students, secured 1st Prize in **SIEMENS Hackathon 2016** at Bangalore.
- Ms. Pooja R, VI Sem. B.E.(CSE) is selected for **Narendra Summer Internship Program 2018**, conducted at the Department of Computer Science and Automation, IISc Bangalore for a period of two months with Rs. 20,000/- stipend.
- Ms. Monisha J V, Mr. RishavGoswami and Ms. Kushal Nagaraj have bagged the **TCS Best Student Award** for the year 2014-15, 2016-17 and 2017-18 respectively.
- Team consists of Mohammed Sadiq, G.V.DivyaRachana, Kumar Vivek, Ritesh Sharma, Mohan Devaraj, Rishav Prabhra lead by Mr Santosh Patil, Assistant Professor secured **KPIT Inspiration Award** along with a cash prize of Rs. 10000/- in Smart India Hackthon 2018 held at Yeshwantrao Chavan College of Engg., Nagpur.
- Dhiraj Kumar Azad secured first place in **Ideathon** at IIIT Vadodara, held during 2-4 March 2019.



MoUs :

MOU with TCS :

- Under the MOU, Professional Elective titled as Enterprise Content Management (ECM) is offered to B.E CSE and ISE VIII semester students. The course is based on Adobe Experience Manager (AEM).

MOU with Navigem Data Inc., Bengaluru:

- Under the MOU, IoT Lab is setup to develop IoT solutions for the institution requirements.

MOU with Manya - The Princeton Review :

- To provide training for students to take up GRE examinations.

MOU with Florida International University (FIU) USA :

- Six students participated in the Research Experience Programme at FIU for a period of two months.
- Mr. Tejas, Assistant Professor pursuing PhD at FIU.

Advisory Board

Chairman :

1. **Dr. R. Sumathi**
Professor & Head, Dept. of CSE, SIT, Tumkur.

Members from other Academic Institutions :

2. **Dr. Narasimha Koulgoud**
Professor, Dept. of CSE, NIE Mysore.
3. **Dr. Chandrashekhar Ramanathan**
Professor, IIIT B, Bangalore.

Members from Industry :

4. **Dr. N. Ramamurthy**
Former Additional Director, Scientist - G DRDO, CAIR, Bangalore.
5. **Mr. Sandeep J Alur**
Enterprise Architect Advisor, Microsoft, Bangalore.
6. **Mr. T.V. Ravi**
Philips Innovation Campus, Bangalore.

Internal Members :

7. **Dr. N.R. Sunitha**
Professor, Dept. of CSE, S.I.T., Tumkur.
8. **Dr. A.S. Poornima**
Professor, Dept. of CSE, S.I.T., Tumkur.

Convener :

9. **Dr. Y.S. Nijagunarya**
Professor, Dept. of CSE, SIT, Tumkur.





Department of Information Science and Engineering

Year of Establishment : 1999

Courses Offered :

UG Programme (1999) :

B.E. - Information Science & Engineering

PG Programme (2015) :

M.Tech. - Cyber Forensics and Information Security

Mission of the Department :

- ◆ To enable students to acquire strong fundamental concepts related to the Information Science and Engineering through experiential learning.
- ◆ To educate students towards state-of-the-technologies and multidisciplinary practices for a successful career by creating learning-teaching-learning ambience.
- ◆ To inculcate life-long learning through innovation and research attitudes among students related to Information Science and Engineering.

Short Range Goals :

- ◆ Soft skills training programs for the students to face the challenging placement scenario.
- ◆ Inculcate Research interest in students.
- ◆ Organizing seminars/workshops/conferences to enhance the knowledge of students and faculty.
- ◆ To keep an eye towards the improvement of academic performance of students every year by counselling and interactions.
- ◆ To equip the department to meet the needs of surrounding industries.

Long Range Goals :

- ◆ Improving student performance in campus selections: To achieve 100% placement by 2020.
- ◆ Promoting research: 80% faculty with Ph.D. by 2020.
- ◆ Enhancing Institute-Industry interaction .
- ◆ To create a research base of information desk.
- ◆ To develop expertise and facilities for conducting training programmes for people from industries and other institutions

Facilities :

Vasudha Computer Centre (Advanced Computing Lab)

Sl.No.	Item	Quantity
1.	Lenova Think Centre M 73 Desktop systems	78
2.	LCD Projectors	02
3.	A4 HP Scanner	01
4.	5 KVA Offline UPS	06
5.	HP Laser Jet Printer	02

Panini Computer Centre

(Project Lab, Microcontroller Lab and Research Lab)

Sl.No.	Item	Quantity
1.	Laptop HP 67305	05
2.	HP IPAQ 612C	02
3.	HP XW6600 Workstation	01
4.	HP 19" LCD Monitor	01
5.	3 KVA UPS	03
6.	Microcontroller Kits	10
7.	Dell Vastra 3669 Desktop	15
8.	Dell Vastra 3470 Desktop	30
9.	Dell 19.5" TFT Monitor	30

Kautilya Computer Centre (M.Tech. - CFIS Lab)

Sl.No.	Item	Quantity
1.	HP 280-G1-i5-4590 Desktop Computers	20
2.	5 KVA UPS	02
3.	LCD Projectors	02

Research Activities :

Areas of research being carried out :

- Speaker recognition in uncontrolled environment.
- Retrieval of images from WWW using content based retrieval techniques and annotations.
- Retrieval of images using combined visual features for multi object images from the databases.
- A trust based context aware authentication and security scheme for ubiquitous network system.

- Multilingual speaker recognition.
- Speech recognition under degraded condition.
- Speaker verification under limited data condition.
- Image tracking in crowd.
- Security in Wireless Sensor Networks & IOT
- Speech Processing and Machine Learning
- Single Image Super Resolution Image Convolution

Sponsored Research Projects :

Completed :

1. Design and Development of Multilingual Speaker Recognition System with the Constraint of Limited Data.

Funding Institution : VTU, Belgaum
 Amount : Rs. 5.92 Lakhs
 Principal Investigator : Dr. H.S. Jayanna
 Professor, Dept. of ISE
 Co-Investigator : Dr. K. Viswanath
 Prof. & Head, Dept. of TE

2. Performance Evaluation of Open Source ASR tools with creation of speech corpus for Indian English and Hindi.

Funding Institution : CAIR - DRDO
 Amount : Rs. 9.90 Lakhs
 Principal Investigator : Dr. H.S. Jayanna
 Professor, Dept. of ISE

3. Speech based Access of Agricultural Commodity prices and weather Information in 12 Indian Languages.

Funding Institution : DeitY, Govt. of India
 Amount : Rs. 42.55 Lakhs
 Principal Investigator : Dr. H.S. Jayanna
 Professor, Dept. of ISE

Student Projects Sponsored by KSCST, Bangalore

1. Heart Beat Rate Monitoring using Smart Phone guided by Dr. H.S. Jayanna.
2. Real Time Annotation of Medical Images guided by Mrs. Sharmila. S.P.
3. Gesture based flying robot for precision agriculture guided by Ms. Shubha. C.
4. Bird Census using digital photography guided by Dr. M.S. Rudramurthy.

Research Publications :

National Conference : 34
 International Conference : 108
 National Refereed Journals : 03
 International Refereed Journals : 78

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Sept. 14-19, 1999	Visual Basic 6.0
2.	Apr. 13-16, 2001	Active Server Pages
3.	Sept. 03-08, 2001	Artificial Neural Networks and Engg. Applications
4.	Feb. 25-Mar. 2, 2002	Modern Software Engineering Practices using Rational Rose
5.	Aug. 26-31, 2002	Network Programming
6.	Feb. 23-28, 2003	Wireless & High Speed Networks
7.	Aug. 21-27, 2003	Mathematics of Computation-I (Computational Group Theory)
8.	Jan.16-18, 2004 Feb. 05-07, 2004	Network Programming - A Practical approach using Java & C
9.	Aug. 2004	Randomized Algorithms
10.	Feb. 2005	Multimedia Communications
11.	Aug. 2005	Logic Design
12.	Feb. 2006	CGI & Network Programming
13.	Aug. 7-12, 2006	File Structures, Embedded Systems and Data Warehouse
14.	Jan.29-Feb.5, 2007	Professional Dev. Programme
15.	Aug. 06-11, 2007	Academic Autonomy
16.	Jan.28-Feb.02, 2008	Advanced Programming & Mobile Switching Concepts
17.	Aug. 01-07, 2008	Soft Computing Tools (Genetic Algorithm/Neural Networks/ Fuzzy)
18.	Jan. 19-24, 2009	Mobile Communications
19.	Jan. 24-30, 2010	Semantic Web, Nature inspired Computing
20.	June 25-30, 2010	Thrust Areas in Computer Science and Applications
21.	Jan. 20-27, 2011	Image Processing : MATLAB Tool Box
22.	June 24-30, 2011	Curriculum Design, Multicore Architecture & Pedagogy
23.	June 25-30, 2012	Free Software, Cyber Crime and Ethical Hacking
24.	June 24-29, 2013	Big Data Management and Machine Learning
25.	August, 2013	Latex for Documentation
26.	August, 2013	Industry Oriented Software Engg.
27.	September , 2013	Machine Learning for computer vision
28.	March, 2014	Data Storage Technology
29.	March , 2014	Software Engineering Practices
30.	September, 2014	Advanced Algorithms & Data Structures - Industry Perspective
31.	October, 2014	JAVA applications Development
32.	April , 2015	Sprucing up Mobile Applications using Android
33.	December, 2016	Introduction to IOT and Python Programming
34.	July, 2017	R & Python programming on Data Analytics
35.	April, 2018	Microcontroller & ARM Processor
36.	April, 2019	Blockchain Technology

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. H.S. Jayanna , M.E., Ph.D. Professor & Head	Speaker Recognition, Speech Processing, Computer organization, Computer Networks, Multimedia communication, Computer Architecture, Operating system, Data Communication
2.	Dr. R. Aparna , M.S., Ph.D. Professor	Analysis and Design of Algorithms, Microprocessors, Cryptography and Networks security, Operating systems, Data structures, System Software, Microcontroller and Wireless Sensor Networks
3.	Dr. M.S. Rudramurthy M.Tech., Ph.D. Associate Professor	Logic Design, Fuzzy Logic, Neural Network, Computer Organization & Architecture, Genetic Algorithms, Speaker Recognition, Non Linear & Non Stationery Signal Analysis using Hilbert-Huang Transform and its Engineering Applications, Microprocessors & Embedded systems
4.	Dr. Purohit Shrinivasacharya M.Tech., Ph.D. Associate Professor	Data Structures, Compiler Design, OOPS, C, Microprocessor and Microcontroller, System Software, Client Server Computing, Principles of User Interface Design, Operating system, Image Processing, Secured Programming, Advanced Cryptography
5.	Dr. H Kavitha , M.Tech., Ph.D. Associate Professor	OOPS, RDBMS, Operating System, Computer Networks , Data Structures, Object Oriented Analysis & Design, Cryptography, Image Processing
6.	Dr. Jagadamba G , M.Tech., Ph.D. Assistant Professor	Operating Systems, Data Communications, Network Management, Data Base Management Systems, File Structures, Computer Networks
7.	Nagarathna. B.C , M.Tech. Asst. Professor (Pursuing Ph.D.)	C, C++, Data structures, Operating system, Unix, File Structures, SAN, DOS, Computer organization, ADA, NLP
8.	Sathisha B. , M.Tech. Asst. Professor (Pursuing Ph.D.)	C, C++, Unix, Operating System, Data structures, Finite Automata & Formal Languages, Computer Networks, Microprocessors, Data mining and warehousing
9.	Sharmila S.P. , M.Tech. Assistant Professor	C, C++, Data structures, Computer Graphics, Computer Networks, Cloud Computing, Data Analytics, Cryptography & Network Security,
10.	Sharath Kumar. S , M.Tech. Asst. Professor (Pursuing Ph.D.)	Computer Networks, Cryptography & Network security, Unix system programming, Network Management, System Software, DOS, Data Analytics, FAFL, Advanced Data Structures, File Structures
11.	Hemavathi , M.Tech. Asst. Professor (Pursuing Ph.D.)	C, C++, OOPS, Data structures, Operating systems, Business intelligence, JAVA, File Structures
12.	Ramu. S. , M.Tech. Assistant Professor	C, C++, Data structures, JAVA, Computer networks, FAFL, Data communication, Business Intelligence, Web Programming
13.	Keerthan Kumar. T.G. , M.Tech. Assistant Professor	C, C++, Java, FAFL, Data Structure, Analysis & Design of Algorithms, Unix & Shell programming, Software Testing, Cloud Computing
14.	Shubha. C. , M.Tech. Assistant Professor	Artificial Intelligence, Android Applications Affective Computing, File Structures System Software, Business Intelligence, Cryptography & Network Security
15.	Sushma. S.A. , M.Tech. Assistant Professor	Speech Processing, Big Data, OOPS, JAVA, File Struxctures



MoUs :

- 1) Intellectual Info Solutions Pvt. Ltd., Bangalore
- 2) EMC², Bangalore
- 3) Infosys, Bangalore
- 4) WIPRO Technologies, Bangalore
- 5) ABB GISL, Bangalore
- 6) TCS, Bangalore
- 7) CDAC, Trivendrum
- 8) NAV Labs, Bangalore
- 9) Speridian, Bangalore

Awards & Accolades (Faculty & Students) :

VTU Rank Holders :

Year	Name	Rank
2003	Samrat Bandopdhyaya	IX
2004	Swaroop K M	I
2005	Narahari M Upadhya	VII

Best Student Award by TCS :

Year	Name
2004	Animesh Jain
2005	Rajesh Ranjan
2007	Arnab Paul
2008	Pallav Rustogi
2010	Umang Kotriwala

Best Student Award by the Institute :

Year	Name
2018	Akash Kumar Srivastava

Department Gold Medalist since Autonomy :

Year	Name
2011	Umang Kotriwala
2012	Aakantha Sinha
2013	Mitesh Kumar
2014	Vanitha H
2015	Deepu H N
2016	Preetham G
2017	Kajol. R
2018	Kavya. P

Advisory Board

Chairman :

1. **Dr. H.S. Jayanna**
Professor & Head, Dept. of I.S.E., S.I.T., Tumkur.

Members from other Academic Institution :

2. **Dr. P. Nagabhushan**
Director
IIIT, Allahabad
3. **Dr. Susheela Devi**
Principal Research Scientist
Dept. of Computer Science & Automation, IISc, Bangalore
4. **Dr. Shashidhar G. Koolagudi**
Assistant Professor
Dept. of Computer Sc. & Engineering, NITK, Surathkal

Members from Industry :

5. **Dr. Gopal Krishna V.**
Board Member & Advisor, Integra Micro Services, Bangalore
6. **Mr. Mallesh Lepakshaiah**
Senior Software Engineer, IBM India Pvt. Ltd.
EGL Business Park, Indiranagar Inner Ring Road, Bangalore
7. **Mr. Devaraj H Patil**
Principal R & D Engineer, Airvana Networks, Bangalore

Members from Alumni :

8. **Mr. Bharat A.**
Senior Consultant
Siemens Technology & Services Pvt. Ltd., Bangalore
9. **Mr. Rajeev G.S.**
Package Solutions Consultant Salesforce, IBM India Pvt. Ltd.
10. **Mr. Raman Kumar D.V.**
Project Manager, CA Technologies Pvt. Ltd., Bangalore

Internal Members :

11. **Dr. R. Aparna**
Professor, Dept. of ISE, SIT, Tumkur
12. **Dr. M.S. Rudramurthy**
Associate Professor, Dept. of ISE, SIT, Tumkur
13. **Dr. Purohit Shrinivasacharya**
Associate Professor, Dept. of ISE, SIT, Tumkur
14. **Dr. Kavitha H.**
Associate Professor, Dept. of ISE, SIT, Tumkur





Department of Electronics and Telecommunication Engineering

Year of Establishment : 2000

Courses Offered :

UG Programme :

B.E. Electronics & Telecommunication Engineering

PG Programme :

M.Tech. - Digital Communication Engineering

Ph.D. Programme :

Ph.D. in Telecommunication Engineering

Mission of the Department :

- ◆ To provide best learning experience for students through excellent curriculum, industry collaboration and innovative teaching learning processes.
- ◆ To create academic ambience for faculty and students by establishing high-quality R & D labs leading to quality research in Telecommunication Engineering and allied disciplines.
- ◆ To produce graduates with technological competence, necessary professional skills and ethics.

Short Range Goals :

- ◆ To develop curriculum relevant to industry.
- ◆ To enable students to achieve better academic performance.
- ◆ To interact with premier institutes like IITs & IISc, R&D centers and Industries.
- ◆ Enhance Research by faculty.

Long Range Goals :

- ◆ To establish high-quality R & D labs and to pursue research in the area of communication.
- ◆ To have 100% of faculty doctoral degrees in the diverse areas by 2025.
- ◆ To strengthen Industry-Institute interaction.

Program Educational Objectives (PEOs) :

The graduates of Electronics & Telecommunication Engineering are able to:

- PEO1 : Build successful careers in industry, R&D Laboratories by applying mathematical, scientific and state-of-the-art Engineering knowledge with multidisciplinary approaches to solve real world problems in the fields of Telecommunication Engineering and allied disciplines.

- PEO2 : Pursue higher education by lifelong learning in the areas of Telecommunication Engineering and allied disciplines.
- PEO3 : Display professional and ethical attitude, spiritual values with effective communication skills and leadership qualities.

Program Specific Outcomes (PSOs) :

A graduate of the Electronics & Telecommunication Engineering program will able to:

- PSO1 : Apply and analyze the concepts of circuits and systems for real time challenges in the areas of Electronic Circuits, Signal Processing and VLSI/Embedded Systems.
- PSO2 : Identify, design and develop solutions for complex engineering problems related to, Communication Systems using analytical techniques, state of the art simulation tools and hardware.

Facilities :

Communication & Microwave Laboratory :

Advanced Antenna Training System	-	01
Cathode Ray Oscilloscope	-	25
Digital Storage Oscilloscope	-	28
Fiber Optic Kits	-	03 sets
Microwave Test Bench	-	08 kits
MIC Trainer kits	-	04 kits
Power supplies	-	67
QPSK/DPSK Kits	-	06
Signal/ Pulse/ Function Generators	-	69
Analog Discovery Kits	-	25
Labview Kits	-	15

Digital Circuits Laboratory :

Audio Signal Generators	-	07
Cathode Ray Oscilloscope 20/30 MHz	-	12
Digit Auto Ranging Digital Multi-meter	-	12
Digital Storage Oscilloscope 40 MHZ	-	10
Function Generators	-	07
Analog & Digital IC Tester	-	01
Power Supplies 0-30V/ 2A	-	12
DC Regulated + 5V/5A Power Supply	-	15

Vikram Sarabhai Computer Center :

Desktop PC HPDX 7380	-	33
FPGA-VHDL Kits	-	08
DSP Starter Kits with Emulator	-	05

ARM7 LPC2148 Boards	-	20
Multivendor Universal FPGA-VHDL Kits	-	08 Nos.
Analog Discovery Ver.2 Kits	-	25

Project Laboratory :

Desktop PC HP 280G2	-	15
Cathode Ray Oscilloscopes	-	10
Digital Storage Oscilloscopes	-	10
USRP Communication Kits	-	02
Analog Discovery Ver.2 Kits	-	10
Labview MyRio Kits	-	10
GSM / GPS	-	10

PG Lab & Research Lab :

HP Pro Computers	-	20
Desktop PC - HPPro3330MT	-	20
RL 78 Development Boards	-	05
Acer Desktop	-	20
Desktop PC HP 280G2	-	05
Mixed Domain Oscilloscope	-	01
NI Communication USRP	-	01 Bundle
IE3D	-	3+1 License
Cadence	-	10 Licenses
Microwave Office	-	20 Licenses

Remote Lab :

Department of TCE developed Remote Lab for conducting Analog experiments by anyone from anywhere at any time. About 20+ experiments with 120+ variations are available for remote access. Department has developed 20 such systems for on line access 24/7, i.e. 20 students can access at a time and perform any available experiment with same feel as that of conventional lab. (Using this remote lab set-up, it aimed to provide experimental learning to students)

Research Activities :

Areas of Research being carried out in :

- Image Processing
- VLSI Design
- RF & Microwave Antenna Design
- Small Satellite subsystem Design

Sponsored Research Projects :

Completed : 02

1. "Image Analysis for preservation and archiving of Indian Cultural Heritage".

Funding Institution	: DST
Amount	: Rs. 23.00 Lakhs
Principal Investigator	: Prof. Jayanta Mukhopadhyay Professor, IIT-Kharagpur
Collaborator	: Dr. K. Viswanath Prof. & Head, Dept. of TE

2. "Design and Development of Multilingual Speaker Recognition System with the Constraint of Limited Data".

Funding Institution	: VTU, Belgaum
Amount	: Rs. 5.82 Lakhs
Principal Investigator	: Dr. H.S. Jayanna Professor, Dept. of ISE
Collaborator	: Dr. K. Viswanath Prof. & Head, Dept. of TE

Ongoing : 01

1. "Creating Side-Channel attacks infrastructure framework for Industrial Security".

Funding Institution	: ABB
Amount	: Rs. 15.00 Lakhs
Investigators	: Dr. K.C. Narasimhamurthy Professor, Dept. of TE Naveenkumar. M Asst. Professor, Dept. of TE

No. of Research Scholars : 05

Research Publications :

National Conferences	: 54
International Conferences	: 52
National Refereed Journals	: 18
International Refereed Journals	: 43



MoUs :

College Level

- The University of Memphis, USA
- RMIT University, Australia
- IIIT, Bangalore
- NITK, Surathkal
- VIT, Vellore, Tamilnadu, UAS-Dharwad
- Shanthala Power Ltd., Hubli

Department Level

- IIT, Kharagpur, West Bengal
- Techno Sphere, Bangalore

Awards & Accolades (Faculty & Students) :

Faculty :

- Dr. K. C Narasimhamurthy has secured "BITES BEST Ph.D. Thesis Award" for the year 2010-11.
- Dr. K. C Narasimhamurthy has been invited by National Instruments for the global meet "NIWEEK-2017" at Austin, TEXAS, USA as a panel member on the topic "GOING BEYOND CURRICULUM".
- Dr. K. Viswanath - Biography listed in World's Whos Who March 2011.
- Mr. M. Naveen Kumar has secured Gold Medal in M.Tech. Digital Electronics from SDMCE, Dharwad during 2011.

Students :

Secured PG/Ph.D. admission to Foreign/other Universities

- Ph.D. Abhilash B, IISc Bangalore, India
- MBA Abhishek Kedia, Indian Institute of Foreign Trade, Delhi, India.
- MBA Akshay Swaraj, Alcorn State University, Mississippi
- MS Amitkumar Virupakshagouda, University of Texas, Austin, USA.
- MS H S Kishore, IOWA State University of Science And Technology
- MBA Manjunath Pai, York University - Schulich School of Business Toronto, Canada.
- MBA Rashmi K R, Keller School of Management, Devry University, USA
- MS Sai Kireet Patri, Technical University, Munich, Bavaria, Germany.
- MS Anoop Kiran, Portland State University, USA
- MS Basavaraj Madiwalar, Technical University, Munich, Bavaria, Germany.
- MS Gagan M, University of South Florida, USA
- MBA Shobhit Shubham, Institute of Management Technology, Dubai.
- Ph.D. Sudhanva Vasistha, The University of Texas Austin, USA
- MS Sumanth Venugopal, Technical University, Darmstadt, Germany.
- MS Deepa. A., UCD University, Dublin.
- MS Bhanushree. T., RWTH Aachen University, Germany.
- MS Bindu. C., Arizona State University, USA.



Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. K. Viswanath M.E., Ph.D. Professor & Head	Signal / Image Processing, Satellite & Mobile Communications, Multimedia Communication
2.	Dr. K.C. Narasimhamurthy Professor M.Tech., Ph.D.	Microelectronics, VLSI
3.	Dr. M.N. Sujatha M.Tech., Ph.D. Associate Professor	Microwaves, Communication, Antennas & RF Circuits, Electromagnetics, Artificial Materials in Electromagnetics
4.	H.M. Chandrashekar , M.Tech. Asst. Professor (Pursuing Ph.D.)	Signal Processing & Coding Theory
5.	R.N. Sathisha , M.Tech. Asst. Professor (Pursuing Ph.D.)	Digital Communication / Mobile Communication
6.	Dr. T.N. Chandrika M.Tech., Ph.D. Assistant Professor	Industrial Electronics, Digital Electronics, Digital Signal Processing, Communication
7.	D.K. Kumuda , M.Tech. Asst. Professor (Pursuing Ph.D.)	Wireless Communication
8.	Naveen Kumar. M. , M.Tech. Asst. Professor (Pursuing Ph.D.)	Digital Electronics, VLSI, Communications
9.	L. Usha , M.Tech. Asst. Professor (Pursuing Ph.D.)	Digital Electronics
10.	Suchitra. V. , M.Tech. Assistant Professor	Communication System
11.	Rakesh. M.B. , M.Tech. Assistant Professor	VLSI Design and Embedded Systems
12.	Puneeth Kumar.T.R. , M.Tech. Asst. Professor (Pursuing Ph.D.)	Antennas and Microwave
13.	Susmita Eswar , M.Tech. Asst. Professor	Digital Communication
14.	Dr. G. Hiregoudar , Ph.D. Adjunct Faculty	
15.	Dr. Lalit Kumar , Ph.D. Distinguished Research Advisor	

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Apr. 2001	Digital image processing
2.	Sept. 2001	Computer Communication Networks
3.	Feb. & Mar. 2002	VHDL



Sl. No.	Date	Subject
4.	Aug. 2002	Linear algebra
5.	Feb. 2003	Probability & random processes
6.	Aug. 2003	Interactive DS
7.	Jan. 16-18, Feb. 2004	Power Electronics, theory and practice
8.	Aug. 2005	Microcontrollers and VLSI Design / Basic Electronics
9.	Feb. 2006	Matlab & VHDL
10.	Aug. 2006	Field Theory / Signal and Systems / Basic Electronics
11.	Feb. 2007	Professional Development Programme / Lab View
12.	Aug. 2007	Academic Autonomy
13.	Jan. 2008	VHDL / Microcontrollers
14.	Aug. 2008	Signal Processing
15.	Feb. 2009	Network Analysis
16.	Jan. 2010	Linear Algebra
17.	June 2010	Challenges in Micro/Nano Electronics
18.	Jan. 2011	Computational Methods in E&C Engg.
19.	Jan. 2012	Mind Ur Mind
20.	Feb. 2012	Outcome Based Education
21.	Mar. 2012	Wireless Technologies
22.	June 2013	Electronic & RF Circuit Simulation Tools
23.	June 2014	Advanced Digital Design using Verilog HDL
24.	June 2014	Recent Trends in Microwave Engg.
25.	July 2015	ARM Processor Technology
26.	Oct. 2015	My DAQ Installation, Demonstration
27.	Nov. 2015	My DAQ Operational training
28.	July 2016	Hands on Training on Arduino& Raspberry- Pi and Analog Discovery Version-2 Kit
29.	Dec. 2016	A review on program outcomes and course outcomes
30.	Dec. 2016	Outcome Based Education workshop
31.	March 2017	Installation and demonstration / training on NI USRP and LABVIEW
32.	April 2018	Experiential Learning through Virtual / Remote Lab
33.	April 2019	Computer Networks and Integrated Optics

Advisory Board

Chairman :

- Dr. K Viswanath**
Professor & Head, Dept. of TCE, SIT, Tumkur

Convener :

- Dr. K C Narasimhamurthy**
Professor, Dept. of TCE, SIT, Tumkur

Members from other Academic Institutions :

- Dr. M. Manjunatha**
Associate Professor, SMST, IIT Kharagpur
- Dr. Siddarama Patil**
Prof. & Head, Dept. of ECE, PDACE, Gulbarga
- Prof. Dr. Jharna Majumdar**
Sc. G DRDO (Retd.), Dean, R&D
Prof. & Head, Dept. of CSE (PG), NMIT, Bengaluru
- Dr. B. Kanmani**
Professor & Head, Dept. of TCE, BMSCE, Bengaluru
- Dr. T. Laxminidhi**
Professor & Head, Dept. of ECE, NITK, Surathkal

Members from Industry :

- Mr. Gopal Krishna**
Managing Director, Maxim India Integrated Circuit
Design Pvt. Ltd., Bengaluru
- Dr. Adhipati Reddy**
LG India Pvt. Ltd., Bengaluru
- Mrs. Uma. S.**
Delivery Manager, British Telecom, Bengaluru
- Mr. Manoj. R.**
Team Leader, TEXAS Instruments, Bengaluru

Internal Members :

- Dr. M N Sujatha**
Associate Professor, Dept. of TCE, S IT, Tumkur
- Dr. T.N. Chandrika**
Assistant Professor, Dept. of TCE, S IT, Tumkur



Department of Architecture

Year of Establishment : 1992

Courses Offered :

UG - Architecture

The Department of Architecture came into existence as the 11th under-graduate course in the sprawling S.I.T. Campus during the year 1992. The department is housed in its own building with excellent infrastructure facilities, in a beautiful architectural setting. The intake is 40 seats. The beautiful campus environment and the salubrious climate throughout the year in this part of the country, makes it an ideal place for pursuing architecture studies.

Mission of the Department :

To develop the young minds, to become self confident in generating thoughts to evolve appropriate designs, synthesizing spaces and shelters, where life and culture grows with better understanding of the past, showing concern for the present and having vision for the future for the creation of Eco-friendly environment and to imbibe in them, the professional ethics with societal commitment, to face the challenges that face the world to-day.

Short Range Goals :

- ◆ To provide quality education in architecture in the fields of Architectural Design, Interior Design, Landscape Architecture, Physical Planning and Construction Management.
- ◆ To equip the students with various skills like AutoCAD, 3ds Max, Revit, Photoshop etc., so that they get proficiency and become employable in the industry.
- ◆ To design the curriculum to meet the societal needs.

Long Range Goals :

- ◆ To establish a research and consultancy cell in the department to motivate the faculty and students to take up research projects.

Duration of the course and Employment Opportunities :

The B.Architecture degree course, due to its very wide spectrum of coverage of subjects, is a 5-year

(10 semesters) Programme. Last 2-semester that is 9th & 10th semester are reserved for apprentice training and students work in private or corporate architectural offices, where they get necessary exposure to various practical aspects of the profession and usually many of the students get their employment in this process.

Other Opportunities :

After a B. Architecture degree, a varieties of post-graduate architectural programmes are available in varied fields, such as Regional Planning, Urban Planning, Transportation Planning, Landscape Architecture, Housing, Construction Management, Product design, Environmental Planning, Visual communication and design, Architectural journalism, Conservation studies, structural Engg., Product design and engg. etc., both in India as well as abroad. There is a wide opening in architectural consultancy firms of different scales and there is scope for startups also.

Facilities :

The department has eight large studios cum lecture halls, which are well-lit and ventilated with individual locker facility for every student.

The department has well-established computer laboratory with 40 computers, linked with broadband internet access facility and every teacher is provided with Desktop system. The architectural software for drawing work and for 3D visualizations etc., are also available for student's use.

In addition, the department has A0 Plotter, Inkjet A3 & A4 size colour printers, Dot Matrix printers, Scanners, Xerox machine, a well-equipped Climatology laboratory with light level measuring instruments, sound level measuring instruments and various types of temperature and humidity measuring instruments and wind-speed measuring instruments and rain-gauges, etc, Art Laboratory also furnished with all the requirements which includes Plotter wheels also.

The department has excellent audio-visual LCD projectors and each class is provided with Over-head projector. Department also have a smart classroom facility.

The department is provided with its own reference / reading library with about 5400 volumes of important books and professional magazines and student's thesis projects. In addition, the college main library has more than 2,000 architecture books for lending purposes to the students.

The department has the art and model-making workshop, Building materials museum and an Experimental Construction yard facility etc.

In order to provide a good environment for Student-Teacher interactions the faculty members of the department are encouraged and sent to several quality improvement programmes to improve their quality of teaching, every year.

The sister departments of Civil Engineering, Mechanical Engineering and Electrical Engineering provide supporting services in their respective fields of knowledge related to Building design and execution.

Faculty

Sl. No.	Name and Designation
1.	Prof. K. C. Tanuja , B.Arch., MURP (Pursuing Ph.D.) Professor & Head
2.	Prof. Raghunanda S Aiyangar , B.Arch., MURP Professor (Design Chair) (Pursuing Ph.D.)
3.	Prof. T.M. Chengappa , B.Arch., MLA Professor
4.	Asha. N , B.Arch., M.Arch. (Pursuing Ph.D.) Associate Professor
5.	Madhumathi. P , B.Arch., M.Arch. Associate Professor (Pursuing Ph.D.)
6.	Sagar. T.S. , B.Arch., M.Arch.) Associate Professor (Pursuing Ph.D.)
7.	Naveen Kishore. K. , B.Arch., M.E. Associate Professor (Pursuing Ph.D.)

8. **Senthil Kumar**, B.Arch.
Assistant Professor
9. **Ranganatha. M.N.**, B.Arch., M.Arch.
Assistant Professor
10. **Chandrika. S.M.**, B.Arch.
Assistant Professor
11. **Manjunath. C.N.**, B.Arch.,
Assistant Professor
12. **T. Sahana Prakash**, B.Arch., M.Arch.
Assistant Professor
13. **Vivek. C.G.**, B.Arch.,
Assistant Professor
14. **Vijetha. C.P.**, B.Arch., M.Arch.
Assistant Professor
15. **Bhoomika. U.**, B.Arch.,
Assistant Professor
16. **Ranjan Prabhakar**, B.Arch.,
Assistant Professor

Tenure Faculty Members :

1. H.V. Sreenivas
2. Umesh Nuchin
3. Rajeshwari Gowrishankar
4. Yash Kumar

Allied Faculty Members :

1. Siddesha Gowda
2. Dr. G. Veerappa Devaru
3. Smitha Singh
4. Pradeep Kumar Kallur
5. Rupa Mahesh
6. Abhishek Bhaskar

Visiting Faculty Members :

1. Karthik. P.
2. Pragathi Gurkar
3. Ryan Thomas.
4. Ankur Srivastava
5. Yashas. R.
6. Jayashree Shettar
7. Saikat Ray



Advisory Board

Chairman :

1. **Prof. K.C. Tanuja**
Professor & Head, Dept. of Architecture, S.I.T., Tumkur.

Convener :

2. **Asha. N**
Associate Prof., Dept. of Architecture, S.I.T., Tumkur.

Experts from Industry :

3. **Prof. Jayashree Deshpande**
Director, NIASA, 2nd Floor, Dharmagiri, Pune - 411 008.
4. **Anup Naik**
Managing Director, Space Matrix, Bengaluru

Experts from other Institutions :

5. **Dr. Mamatha P Raj**
Director
BMS College of Architecture, Bengaluru

Internal Members :

6. **Prof. Raghunanda S Aiyangar**
Design Chair, Dept. Architecture, SIT, Tumkur.
7. **Madhumathi P**
Associate Prof., Dept. of Architecture, S.I.T., Tumkur.
8. **Sagar T S**
Associate Prof., Dept. of Architecture, S.I.T., Tumkur.
9. **Senthil Kumar. S R**
Assistant Prof., Dept. of Architecture, S.I.T., Tumkur.

Achievements :

The students of our department have actively participated in various national and international competitions and have won laurels to the college. The final year Thesis Projects have been shortlisted at the Regional Thesis Awards conducted by COA-NIASA many years. Students have been regularly participating in the Transparency National Design Competition hosted by Saint Gobain and Ethos and have bagged citations at regional level and national level too. Our students' works were cited at the ARCASIA International design competition. A3 Foundation has recognized the works of our students almost every year with awards in sustainable and innovative architectural design categories. Faculty of the department is actively involved in research and development activities. The department contributed immensely during the preparation of Smart city Tumkur report. We are proud that the mission statement for Smart City Tumkur was

quoted by our Faculty. Faculty of Architecture have presented their thoughts in various national and international conferences and published their research works. The department enthusiastically completed documentation of almost 100 heritage houses of Anegondi, Heritage village in the UNESCO site of Hampi, Karnataka.

NASA :

Students of our Department actively involve in the activities of National Association of Students of Architecture (NASA) throughout the year. They participate in the Design competitions and trophies every year and have won citations and special mentions at Zonal conventions and Annual conventions every year. This forum also helps the students to represent themselves well by developing leadership qualities and presentation skills among the crowd of architecture students in the nation.

Other Activities :

RACHANA :

The cultural festival organized at the Department level annually helps to develop the interaction between students of all the batches. On the spot events like Formal design oriented, Informal Interactive and personality based and Casual events will be conducted to nurture the over all development of students. Successful Practicing Architect from the field will be the chief guest for the event who shares his professional experience to motivate the students.

Annual Exhibition :

Exhibition of the academic works of students during the previous year is organized at the Department annually. During this event, outstanding works of students are recognized with certificate of appreciation by the Faculty.

University Ranks :

Students of our Department have secured ranks for their academic excellence from Visvesvaraya Technological University.

University Ranks :

Sl. No.	Name of the Candidate	VTU Rank / Autonomous	Year of Passing
1	Devaganga H. M.	7	2003
2	Divya Prabha S. N.	9	2006
3	Soumya Rajagopalan	6	2007
4	Sukanya Bhattacharya	7	2007
5	Chetna Pandey	8	2007
6	Azeez M.	4	2010
7	Melinda Bertilla Albuquerque	10	2010
8	Sahana Prakash. T	Gold Medal	2012
9	Pushpika	Gold Medal	2013
10	Farhan Abdul Rehman Shaikh	Gold Medal	2014
11	Varnitha. T.H.M.	Gold Medal	2015
12	Subhashita. H.N.	Gold Medal	2016
13	Kushal. J.	Gold Medal	2017
14	Jain Saloni Sampat Raj	Gold Medal	2018





Department of Biotechnology

Year of Establishment : 2006

Courses Offered :

UG Programme :

B.E. Biotechnology

Ph.D. Programme :

Ph.D. in Biotechnology

Mission of the Department :

The Department is committed to develop proficient professionals by offering necessitate based curriculum in Biotechnology Engineering areas like plant-, animal-, microbial-, environmental-, industrial biotechnology and computational biology, promoting research and innovation, centre of excellence and to train the students for higher study, life-long learning and societal responsibility. The department is also committed to provide work-ready biotech engineers and entrepreneurs, excellent learning environment to inculcate professional ethics and skills in our students and to provide engineering services to the society.

Short Range Goals :

- ◆ To develop facilities and infrastructure for providing excellent training in the field of plant, animal, microbial, environmental & industrial biotechnology.
- ◆ To provide trained manpower in the field of biotechnology for research and development, scaleup, equipment design, process development and large scale production of products, and bio services.
- ◆ To develop technologies for production of nanoparticles by greener approach for various applications.
- ◆ To develop an efficient microorganisms capable of degrading xenobiotics.

Long Term Goals :

- ◆ To establish technology for nanobased drug delivery system.
- ◆ To provide an incubation facility to promote tiny, small and medium biotech entrepreneurs.

- ◆ To make this institution a center of excellence in Biotechnology.
- ◆ To develop a technology for bioremediation of xenobiotics.

Facilities :

Excellent Lab facilities which includes Fermentor of 20 liters capacity, Preparative HPLC, UV Spectrophotometer, Microscopes, Polymerase Chain Reaction (PCR) etc, Bioinformatics commercial software like Discovery Studio, CLC Genomics ANS Main Workbench, Avadis NGS, ePep, ePrime, e-Litmus and GPU.

Research Activities :

Areas of Research being carried out :

- Proteomic analysis of the human olfactory bulb and olfactory tract.
- Removal of lead compounds from industrial effluents.
- Ocular Pharmacology Fuchs dystrophy.
- Intermediate compounds and enzymes involved in degradation of Reactive Black 5 Dye.
- Drug Design for Parkinson's disease
- Bioremediation of Heavy metals through microbial approach.
- Bioprocessing of Coffee husk.
- Role of bound phospholipids in structural and functional characteristics of cholesteryl ester transfer protein.
- Mutational Studies on cholesteryl ester transfer protein.

No. of Ph.Ds awarded (from the Centre) : 01

No. of Research Scholars : 02

No. of M.Sc. Engg. awarded (from the Centre) : 01

Research Publications :

National Conferences : 01

International Conferences : 02

National Refereed Journals : 01

International Refereed Journals : 07

Consultancy & Testing :

Microbiological Water Testing, Antimicrobiological Activity Testing on Cloth, Preparative HPLC and Fermentor, Bioinformatics Tools Training.

Awards & Accolades :

Faculty :

- Mr. Vivek Chandramohan paper presented at First UAEU Symposium on Biological Sciences, United Arab Emirates University, Dubai on Nov. 13-15, 2016 **with Travel Award.**
- Dr. Roopa K B awarded Ph.D. degree for the thesis entitled "Study on Intermediate Compounds and Enzymes Involved in Degradation of Reactive Black 5 Dye by *Aeromonas Punctata*" from Jain University on 1st September 2018.
- Dr. Prasanna D R awarded Ph.D. degree for the thesis entitled "Structural and Functional Characterization of Cholesteryl Ester Transfer Protein" from Indian Institute of Technology Madras (IITM), Chennai on 20th July 2018.
- Dr. Manjunath Dammalli awarded Ph.D. degree for the thesis entitled "Proteomic analysis of human olfactory bulb olfactory tract using high-resolution mass spectrometry" from VTU, Belagvi on 18th March 2019.
- Prasanna Kumar B C and Manjushree C secured second best oral presentation award at ICCET2017 International Conference on Contemporary Engineering and Technology 2017, Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology (PSCMR), Vijayawada March 31 - April 1, 2017
- Harish R Won Excellent paper award at International Conference on Advances in Biotechnology and Biotherapeutics (ICABBS2017), Sathyabama University, Chennai, 8-10 Mar 2017.
- Ishwarya R Won Excellent paper award at IAARHIES 48th International Conference on Physical & Life Science ICPL-2017, Hotel Suncourt Corporate, New Delhi, 26 - 27 Feb. 2017.
- Vaishnavi. M and Ganavi Rajan Won Excellent paper award at National seminar on Genome Informatics in Cancer and Agri-Bioinformatics, Dept. of Zoology, Mercy College, Palakkad, Kerala. 5th Jan 2017.
- Kavyashree H & Nandini N.C., final year students got "TCS Best Student Project Award-2017-18" for the project entitled "Production of Gamma-Amino Butyric Acid (GABA) from bio-wastes".
- Hitesh Nayak, Indushree R and Aaryak III and IV year students participated in 4th State Level ISTE Student's Annual Convention and 5th National Conference on "Emerging Trends in Engineering, Research & Management (NCETERM-2017)" at GM Institute of Technology, Davanagere on Sept. 8-9, 2017 and won **First Prize** for Oral Presentation.
- Viditha V., IV year student participated in 4th State Level ISTE Student's Annual Convention and 5th National Conference on "Emerging Trends in Engineering, Research & Management (NCETERM-2017)" at GM Institute of Technology, Davanagere on Sept. 8-9, 2017 and won **Second Prize** for Oral Presentation.
- Sneha Bharma & Roopashree K.R., IV year students participated in National Level Biotechnology Symposium "Symbiot-2017", at Manipal Institute of Technology, Manipal on August 11-12, 2017 and won **Excellent Paper Award** for oral Presentation.
- Sneha S Bharma IV year student and Srujana K, II year student participated in International Conference on "Recent trends in Bioengineering (ICRTB 2018)" MIT School of Bioengineering, Sciences & Research

Students :

- Vaishnavi. M Poster presented at First UAEU Symposium on Biological Sciences, United Arab Emirates University, Dubai on Nov. 13-15 2016, **with Travel Award.**
- Srujana. K, Kashish Saxena and Hitesh Kumar Nayak secured second best poster award at Health monitoring for cardiac patients using smartphones and heart monitors, Osmania Medical College, Hyderabad on 07 September 2016.
- Vaishnavi. M secured best poster award. at National conference on recent advances in industrial engineering and applied chemistry, Sri Siddhartha Institute of Technology, Maralur, Tumkur on 21 - 22 October 2016.
- Ganavi Rajan Won Excellent paper award at National conference on recent advances in industrial engineering and applied chemistry, Sri Siddhartha Institute of Technology, Maralur, Tumkur on 21-22 October 2016.

MITADT University, Loni Kalbhor, Pune on 17th Feb. 2018 and won **Second Prize** for Poster Presentation.

- Jayaranga T and Sushma M U secured **Third best oral presentation award** at SYMBIOT-2018, a National level Symposium held on 19th & 20th October 2018 at Manipal Institute of Technology, Manipal.
- Hitesh Kumar Nayak secured **First place** in stand-Up-Comedy event of Halcyon held from 22nd to 24th Feb 2018, SIT, Tumakuru.
- Srujana K secured **Second place** at 1st International Conference on Recent Trends in Bioengineering (ICRTB 2018) held on 17th Feb 2018 at MIT School of Bioengineering Sciences & Research, Pune.
- Yeshwanth M secured **First Place** for Best Business plan in “Kaun Banega Udyogapathi” held at SIT, Tumakuru on 6th April 2018.
- Sushma M U, Jayaranga T & Kuncha S secured **Third best oral presentation award** at Third National Level Technical Symposium ALCHEMIST-2019 held on 20th March 2019 at KLE college of Engineering Technology, Belagavi.
- Yeshwanth M secured **Third Prize in Mini Project Award** for the project title “Insilco Study of Potential inhibitors against drug resistance mutations of HIV” at SIT, Tumakuru during May 2019.
- Kashish Saxena, Sindhoora B U, Sathe Aadya Vinay and Ravi Kiran K secured **First Prize in Major Project Award** for the project entitled “Biowaste degradation to produce enriched compost using microbial consortium” at SIT, Tumakuru during May 2019.

MoUs :

- Indian Academy Degree College Autonomous, Bengaluru
- Reagen Biosciences Pvt. Ltd., Bengaluru
- Quantumzyme LLP, Bengaluru
- Kyvor Genomics Pvt. Ltd, Chennai
- XCode life sciences Pvt. Ltd, Chennai
- Lab P53 Cancer Research Pvt. Ltd, Vellore
- Parker Hanni Fine India Pvt. Ltd., Mumbai

- Bengaluru Genomics Centre Pvt. Ltd., Bengaluru
- Kcat Enzymatic Pvt. Ltd., Bengaluru

Any other relevant information :

BioChESS :

A National Level Technical Symposium conducted on March 12th 2019 in association with Department of Chemical Engineering. Many numbers of students participate from reputed institutes from Karnataka, Mumbai, Chennai and other places of India. Events like Technical Paper (Oral and Paper) Presentation, Technical Quiz, Paper Presentation are conducted. Cash awards are presented for the top two students in all the above events.

Biotechnology Skill Enhancement Programme :

A Post graduate Diploma in Bioinformatics & Big Data Analytics program initiated by Govt. of Karnataka (KBITS) which is one year duration, started during the academic year 2017-18. SIT is one among 16 colleges selected to start BiSEP. The course is of two semesters wherein first semester will be of classroom teaching and the next will emphasize on Industrial Internship. The institution has established MoUs with many reputed biotech industries/companies which have offered to help in improving industry-institution collaboration thus offering good projects to students assist them for getting placements and to design competitive syllabi.

The Karnataka Information Technology Services (KITS) sanctioned a grant of Rs. 10.00 Lakhs per year for a period of 5 years. The students would get Rs. 10,000/- as stipend per month.

Paper Publications by Students :

- Sanjana S, Medha M U, Meghna M R, Shruthi T S, S. P. Srinivas, Harishkumar Madhyasthac, Navya P N, Hemant Kumar Daima. Enzyme immobilization on quercetin capped gold and silver nanoparticles for improved performance. Elsevier, 10, 2019, 9299.
- Sanjana S, Medha M U, Meghna M R, Shruthi T S, Navya P N, Hemant Kumar Daima. Streptomycin functionalization on silver nanoparticles for Improved antibacterial activity, Elsevier, 10, 2019, 815.

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. B.S. Gowrishankar M.Tech., Ph.D. Professor & Head	Biochemical Engg. Biotechnology Design
2.	Dr. K.B. Roopa , M.Sc., Ph.D. Asst. Professor	Microbiology Bio-insecticides
3.	Dr. D.R. Prasanna M.Tech., Ph.D. Assistant Professor	Computational Biophysics, Medicinal Chemistry
4.	Dr. Manjunath Dammalli Asst. Professor M.Tech., Ph.D.	Proteomics Bioinformatics
5.	C. Anupama , M.Sc. Asst. Professor (Pursuing Ph.D.)	Biochemistry Biotechnology
6.	Vivek Chandramohan , M.Sc. Asst. Professor (Pursuing Ph.D.)	Bioinformatics, Cancer Genomics and Metabolomics, Big Data Analytics

Advisory Board

Chairman :

- Dr. B.S. Gowrishankar**
Professor & Head
Dept. of Biotechnology, SIT, Tumkur

Members :

- Dr. V. Krishna Murthy**
Professor & Head,
Dept. of Biotechnology, PES University, Bangalore
- Dr. Kondaiah**
Professor & Head, Dept. of Molecular Genetics
and Developmental Biology, IISc, Bangalore
- Dr. Shahabuddin**
Scientist, C-CAMP, GVKK, Bangalore
- Mr. Shreedhar. K.G.**
Former CEO
Olive Life Sciences Pvt. Ltd., Tumkur.

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Aug. 07-12, 2006	Novel Separation Techniques
2.	Jan. 29 - Feb. 3, 2007	Professional Dev. Programme
3.	Aug. 06-11, 2007	Academic Autonomy
4.	Jan. 28 - Feb.02, 2008	Biosensors & Bioinstrumentation
5.	Aug. 01-07, 2008	Research Areas on Bacteriorhodopsin, Nanoparticles and Computer Applications
6.	Jan. 19-24, 2009	Research Areas on Bacteriorhodopsin, Nanoparticles, Microfluids and Wealth from Waste
7.	Jan. 24-30, 2010	Applications of Superpro ASPEN, HYSIS and Fermentation Technology
9.	June 25-30, 2010	Chemical Engg. Applications and Characterization of Materials
10.	Jan. 20-27, 2011	Piping Design, Simulation and Modelling
11.	June 24-30, 2011	Modern Teaching Pedagogy for 21st Century Generation
12.	Feb. 03-04, 2012	Outcome Based Education
13.	June 25-30, 2012	Recent Advances in Chemical Engineering & Biotechnology
14.	June 24-29, 2013	Advances in Chemical Engineering & Biotechnology
15.	Feb. 14-15, 2014	Day International Conference on "Green and Clean Technologies in Chemical Engg. and Biotechnology"
15.	May 20, 2015	Contemporary Advances in Biotechnology & Allied Sciences
16.	July 17-20, 2015	Recent Advances in Biotechnology and Chemical Engineering
17.	Nov. 23-28, 2015	Electrical, Magnetic and Catalytic Properties of Nanomaterials
18.	July 13 - 19, 2016	Synthesis and characterization of Nanomaterials & their Engineering Applications
19.	July 23-28, 2017	Environmental Pollution Control and Remediation
20.	April 20-26, 2018	Novel Materials for Engineering and Environmental Applications
21.	April 22-27, 2019	Outcome Based Education





Center of Applied Research and Nanotechnology

Year of Establishment : 2014

Vision of the Center :

Supporting Siddaganga Institute of Technology (SIT) to develop technically and spiritually well rounded graduates.

Mission of the Center :

To develop our graduates as wholesome, socially responsible engineers in the leading advanced technology (nanotechnology) industries and as high calibre researchers in leading global universities and R&D institutions.

Service Offered :

Research programme :

PhD in Nanotechnology (Faculty of Engineering).

1-2-month internship, Laboratory hazard and safety training in cleanrooms

Short Range Goals :

- ◆ Develop and build an engineering oriented research program in advanced technology.
- ◆ Develop appropriate curriculum, laboratories, and faculty.

Long Range Goals:

- ◆ Develop nano fabrication facility for the users.

Facilities :

The Center of Applied Research and Nanotechnology consists the following facilities: 2 smart classrooms, one modelling laboratory with 20 PCs, and the Center's advanced cleanroom laboratories are available for the use of the UG, PG, MS (Engg.), and PhD research project. The facility is equipped with wired and wireless internet connection of 1000 Mbps and a network drive accessed by faculty and students to share various learning materials. Also, the department has in-house library with a collection of where about 750 books, and issues from 5 journals. Besides, the student also has access to about

200 e-books available on the network drive. Student amenities such as a furnished research scholar's office, cafeteria, kitchen, and student lockers are also provided.

Research Activities :

Center's research activities as follows:

- Student projects: DI water plant maintenance and water quality testing
- Metal thin film deposition
- Scanning electron microscopy of user's research samples
- Optical microscopic imaging of research sample
- High purity De-ionized water supply to SIT's departments
- Hardness testing of samples
- Thin film's thickness measurement of the sample
- Laboratory hazard and safety training
- Hand-held glucose presence testing in non-invasive samples
- Pesticides detection in food commodities
- Reduced graphene oxide synthesis and application
- Cleanroom facility development

Areas of Research being carried out :

R&D activities in diagnostics (health and environmental) and materials for renewable energy source .

Sponsored Research Activities :

Completed : CoE in nanotechnology

Completed : KCTU Nanomaterials Test Center

MoUs :

- Tumkur University, Tumakuru
- SDM Education Society, Ujire

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. Nirankar Nath Mishra , Ph.D. Professor & In-charge	Nanofabrication, Electro Analytical Chemistry
2.	Dr. Asis Sarkar , Ph.D. Assistant Professor and Facility Manager	Materials Science

Facilities in the Center



Department of Physics

Year of Establishment : 1963

Courses Offered :

Ph.D. Programme : Ph.D. in Physics

Mission of the Department :

- ◆ To promote the Applied Physics knowledge among the students so that they can apply it in the thrust areas of Engineering and Technology.

Short Range Goals :

- ◆ Motivate the students to learn Physics and to apply the knowledge for understanding engineering concepts.

Long Range Goals :

- ◆ Setup an Applied Research Laboratory.
- ◆ To offer UG/PG level students project in different streams.

Facilities :

Two well established Physics Labs for UG students and a research lab with the following facilities:

- LCR Meter
- Polymer Film making Equipment
- Centrifuge
- Flammability Tester
- Probe Type Sonicator
- Crystal Growth Apparatus
- Triple Distilled Water Unit
- Reddy's Shock Tube
- Vacuum Oven
- Ultrasonic Cleaner
- Magnetic Stirrer
- Electronic Balance
- Electrochemical workstation,
- UV-Vis Absorption Spectrophotometer (Solid/ powder/ liquid)
- Glove Box for manipulating-building batteries
- High Temperature Muffle Furnace(1400°C) and Oven (300°C)

Research Activities :

Areas of Research being carried out :

- Cathode Materials for Batteries (Li & Na ion)
- Magnetocaloric Materials

- Oxide based Photocatalytic Materials
- Polymer Hybrid Nanocomposites
- Electromagnetic Interference Shielding
- Supercapacitors
- Thermo-Electric transport properties of low dimensional semiconductors
- Gas / Pressure / Humidity Sensors
- Crystallography
- Fluorescence Energy Transfer
- Structural solution by x-ray/neutron/synchrotron diffraction.

Sponsored Research Projects :

Completed : 01

1. "Thermally stable graphene based polymer nanocomposites for flame retardant applications".

Funding Institution : VGST, Govt. of Karnataka

Amount : Rs. 4.00 Lakhs

Principal Investigator : Dr. S.R. Manohara

Ongoing : 06

1. "Fabricating Novel Sodium metal-oxide cathode materials for rechargeable batteries: A ternary diagram approach".

Funding Institution : DST SERB, New Delhi

Amount : Rs. 28.88Lakhs

Principal Investigator : Dr. Madhu Chennabasappa

2. "Transition metal ion doped semiorganic amino acid crystal for nonlinear optics (NLO) applications: elaborating magneto-optics relations".

Funding Institution : VGST-CISEE, Bengaluru

Amount : Rs. 30.00 Lakhs

Principal Investigator : Dr. Suresh Kumar. H.M.



3. "Development of novel Graphene-polymer hybrid nanocomposites for efficient flame retardant and Electromagnetic Interference Shielding applications".

Funding Institution : VGST-CISEE, Bengaluru
Amount : Rs. 30.00 Lakhs
Principal Investigator : Dr. S.R. Manohara

4. "Addressing the Challenges in Designing the Thermoelectric Materials using new Class 3D Dirac Semimetal System and Boltzmann Transport Theory".

Funding Institution : DST-SERB, New Delhi
Amount : Rs. 16.00 Lakhs
Principal Investigator : Dr. Bhargavi. K.S.

5. "Mixed-oxide spinel composites AM_2O_4 (A=Zn, Mg, Ca; M=3d block, p-block element) thin films by printing and their photocatalytic, photocurrent activities".

Funding Institution : VGST-SMYSR, Bengaluru
Amount : Rs. 5.00 Lakhs
Principal Investigator : Dr. Madhu Chennabasappa

6. "Green synthesis of metal oxides and Natural dyes for dye sensitized solar cells".

Funding Institution : VGST-SMYSR, Bengaluru
Amount : Rs. 5.00 Lakhs
Principal Investigator : Dr. Shridhar P Mundinamani

Number of Ph.D's Awarded : 03

Number of Research Scholars : 11

Research Publication

International Refereed Journals : 78
National Refereed Journals : 08
National Conferences : 15
International Conferences : --

Awards :

- Dr. Shridhar P M has been selected as Visiting Faculty to carryout the research work at Centre for Nano and Soft Matter Sciences, Jalahalli, Bangalore
- Dr. S.R. Manohara has received "Young Scientist Award" from Vision Group on Science and Technology (VGST), Department of Information Technology, Biotechnology & Science and Technology, Bangalore, 2014.
- Dr. Shridhar P M has received Summer Research Fellowship-2017 from IASc-INSA-NASI to work at University of Delhi, Delhi for a period of two months.
- Dr. Madhu Chennabasappa has received Summer Research Fellowship-2017 from IASc-INSA-NASI to work at Jawaharlal Nehru Center for Advanced Scientific Research, Bangalore for a period of two months.

- Dr. Bhargavi K. S. has received Dr. D. C. Pavate post-doctoral fellowship-2016 to work at University of Cambridge, Cambridge, UK for a period of four months.
- Dr. S. R. Manohara has successfully completed Summer Research Fellowship for Teachers 2012 from Indian Academy of Sciences, Bengaluru at National Chemical Laboratory, Pune.
- Biography of Dr. S. R. Manohara has been published in 12th Edition of Marquis Who's Who in Science and Engineering 2016-2017.

Any other relevant information :

- ♦ Dr. Suresh Kumar H.M. has been recognized as potential reviewer for the following international refereed journals :
 - Journal of Molecular Liquids (Elsevier).
 - Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (Elsevier).
 - Journal of Luminescence (Elsevier).
 - Spectroscopy Letters (Taylor and Francis)
 - Canadian Journal of Physics
 - Luminescence : The Journal of Biological and Chemical Luminescence (John Wiley & Sons)
- ♦ Dr. S. R. Manohara has been recognized as a potential reviewer in various leading international publishers in the field of Radiation Physics and Materials Science, namely,
 - Applied Radiation Isotopes (Elsevier)
 - Annals of Nuclear Energy (Elsevier)
 - Journal of Physics and Chemistry of Solids (Elsevier)
 - Physica Medica: European Journal of Medical Physics (Elsevier)
 - Medical Dosimetry (Elsevier)
 - Radiation and Environmental Biophysics (Springer)
 - Radiation Physics and Chemistry (Elsevier)
 - X-ray Spectrometry (Wiley)
 - Vacuum (Elsevier)
- ♦ Dr. Shridhar P M is one of the Editorial Board Members in A R Research Publication & Conference World for the period 2017-2020 and also he has been recognised as a Reviewer to the :
 - First International Symposium on Dielectric Materials and Applications (ISyDMA' 2016), Kenitra-Rabat, Morocco, 2016
 - Materials for Energy Conversion DAE-BRNS 6th Interdisciplinary Symposium on Materials Chemistry (ISMC-2016) during 6-10 Dec 2016.
- ♦ Dr. Madhu Chennabasappa is a reviewer for the Electrochimica Acta (Impact factor= 5.11), Elsevier, ScienceDirect. He is also an Editorial Board Member of the journal, "Scibay International Journal of Science, Engineering, Technology and Management".

Book Published :

Title of the Book : Electricity and Magnetism

Author's Name : S. R. Manohara and Shubha A.

Publisher : S. Chand and Company Limited., New Delhi

Year of Publication : 2018

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. Suresh Kumar. H.M., Professor & Head M.Sc., Ph.D.	Nuclear Physics, Spectroscopy, Crystallography
2.	Dr. S.R. Manohara, M.Sc., Ph.D. Associate Professor	Nuclear Physics, Radiation Physics / Nanotechnology
3.	C.N. Manjunatha, M.Sc. Assistant Professor	Solid State Physics
4.	Dr. K.S. Bhargavi, M.Sc., Ph.D. Assistant Professor	Solid State Physics
5.	Dr. Shridhar P Mundinamani Assistant Professor M.Sc., Ph.D.	Condensed Matter Physics, Molecular Electronics, Supercapacitors
6.	Dr. Madhu Chennabasappa Assistant Professor M.Sc., Ph.D.	Solid State Physics, Energy Materials

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Aug. 06-11, 2007	Academic Autonomy
2.	Jan.28-Feb.02, 2008	Review of Engineering Physics
3.	Aug. 1-7, 2008	Research areas on bacteriorhodopsin, Nano particles and Computer Applications
4.	Jan19-24, 2009	Research areas on bacteriorhodopsin, Nanoparticles, Microfluids and Wealth from waste
5.	Jan. 24-30, 2010	Characterization of Bio-organic and inorganic substance using analytical and spectral techniques
6.	June 25-30, 2010	Chemical Engineering, Applications and Characterisation of materials
7.	Jan. 20-27, 2011	Nanomaterials

Sl. No.	Date	Subject
8.	June 25-30, 2012	Recent trends in Chemical Engineering and Biotechnology
9.	June 24-29, 2013	Nano composites and Introduction to MATLAB-5
10.	July 17-19, 2015	Materials for Future Technology
11.	Nov. 23-28, 2015	Synthesis, Characterization, Electrical, Magnetic Properties and Applications of Nanomaterials
12.	July 13-19, 2016	Synthesis and Characterization of Nanomaterials and their Engineering Applications
13.	July 23-28, 2017	Characterization techniques for the study of Thermo- Electric and Optical properties of Materials
14.	July 20-26, 2018	Novel Materials for Engineering and Environmental Applications
15.	April 22-27, 2019	Hands on training on Microscopy and Thin Film Measurements

Advisory Board

Chairman :

- Dr. Suresh Kumar. H.M.**
Professor & Head
Dept. of Physics, SIT, Tumkur.

External Members from other Institutions :

- Dr. A. P. Gnana Prakash**
Professor, Dept. of Studies in Physics
University of Mysore, Mysore - 570 006
- Dr. H. Nagabhushana**
Associate Professor & Head
Department of Studies & Research in Physics
Tumkur University, Tumkur - 572 103

Internal Members :

- Dr. S.R. Manohara**
Associate Professor, SIT, Tumkur
- Sri C.N. Manjunatha**
Assistant Professor, SIT, Tumkur





Department of Chemistry

Year of Establishment : 1963

Courses Offered :

Ph.D. Programme : Ph.D. in Chemistry

Mission of the Department :

To provide the applied chemistry knowledge and experimental skill to our students who effectively use them to solve engineering problems.

Short Range Goals :

- ◆ To take up more research projects in the applied fields - polymers, nano materials, catalysis, electrocatalysis and peptides with grants from funding institutions.
- ◆ To improve consultancy and testing facilities.
- ◆ To have more interdisciplinary interaction in project and research work.

Long Range Goals :

- ◆ To have 100 % faculty members with Ph.D. degree.
- ◆ To establish a centre of innovation in Materials Chemistry.

Facilities :

- ◆ The department has three well equipped laboratories and a Research Center with facilities for synthetic work on Peptidomimetics, Materials for Battery, Fuel Cells, Water Splitting Reaction, Catalysts, Polymers and Sensor applications with sophisticated instruments which includes X-Ray Diffractometer, Spectrofluorimeter, UV-Vis, High Performance Liquid Chromatography, Spectrophotometer, Battery Testing Unit, Fourier

Transform Infrared Spectrometer, Electrochemical Workstation, Atomic Absorption Spectrometer, Rotoevaporator, Polarimeter and Electrochemical Impedance Analyzer.

- ◆ Each Faculty member has been provided a computer with internet access.

Research Activities :

Areas of Research being carried out :

- ◆ Synthesis of Metal complexes and their applications.
- ◆ Catalysis Supported metal complex catalysts.
- ◆ Polymer Nanocomposites.
- ◆ Peptide and Peptidomimetics.
- ◆ Synthesis and characterization of layered transition metal oxides/sulphides & lithiated transition metal oxides etc, via hydrothermal, solvothermal, ionothermal and combustion method.
- ◆ Lithium ion battery, Hydrogen production, Degradation of organic dye/industrial pollutants.
- ◆ Chemically modified electrodes, Electrochemical Sensors & Biosensors
- ◆ Synthetic Polymers for Fuel Cell Applications

Sponsored Research Projects :

Completed : 06

1. "Synthesis of N-protected amino/peptide Weinreb amides, amino alkyl sulfoxides, sulfones and acylthio/seleno ureas".

Funding Institution : VGST, Govt. of Karnataka

Amount : Rs. 6.00 Lakhs

Principal Investigator : Dr. H.S. Lalithamba

2. "Green Synthesis of pure and doped nano metal oxides, metal oxide-reduced graphene oxide hybrid nanomaterials: Applications to hydrogen generation, lithium battery, energy saving, photo degradation and biological effects".

Funding Institution : DST Nanomission

Govt. of India

Amount : Rs. 154.50 Lakhs

Principal Investigator : Dr. G. Nagaraju



3. "Vanadium oxide based nanostructured materials and its reduced graphene oxide composite: Electrochemical performance in Lithium battery".

Funding Institution : DST-SERB, Govt. of India

Amount : Rs. 18.58 Lakhs

Principal Investigator : Dr. G. Nagaraju

4. "Synthesis of Ta₂O₅ - Reduced Graphene Oxide Hybrid Nanomaterials : Cathode Material for Lithium Battery".

Funding Institution : ISRO-RESPOND,
Trivendrum, Govt. of India

Amount : Rs. 14.86 Lakhs

Principal Investigator : Dr. G. Nagaraju

5. "Oxide/sulphides of Titanium and Molybdenum - Reduced graphene oxide nanostructural hybrid materials: Electro chemical performance in Lithium battery".

Funding Institution : BRNS-DAE, BARC
Bombay, Govt. of India

Amount : Rs. 22.22 Lakhs

Principal Investigator : Dr. G. Nagaraju

6. "Green synthesis of BiVO₄-RGO hybrid nanomaterials: Application to water splitting reaction, lithium battery and photodegradation".

Funding Institution : VGST, Govt. of Karnataka

Amount : Rs. 6.00 Lakhs

Principal Investigator : Dr. G. Nagaraju

Ongoing : 03

1. "Molecular Docking, Biological Screening and Synthesis of Peptides and Peptidomimetics".

Funding Institution : VGST, Govt. of Karnataka

Amount : Rs. 30.00 Lakhs

Principal Investigator : Dr. H.S. Lalithamba

2. "Development of Novel Hydroxyl Functionalized Imidazolium Polymer Electrolyte Membranes for Alkaline Fuel Cell Applications".

Funding Institution : DST-SERB under ECRA
Govt. of India

Amount : Rs. 33.68 Lakhs

Principal Investigator : Dr. H.N. Anil Rao

3. "Feasibility study on the Development of Technology to treat Fluoride contaminated water for drinking in parts of Tumkur Dist. of Karnataka".

Funding Institution : DST-STTP, Govt. of India

Amount : Rs. 44.10 Lakhs

Principal Investigator : Dr. V. Udaya Kumar

No. of Ph.D.s Awarded : 01

No. of Research Scholars : 12

Research Publications :

National Conferences : 126

International Conferences : 78

National Refereed Journals : 08

International Refereed Journals : 177

Consultancy & Testing :

The department carrying out XRD, FTIR analysis of samples from academic institutions/ universities/ industries. The department in association with the department of civil engineering carried out testing of water quality of rural areas of Tumkur district, a world bank aided project. The testing was conducted for about 7000 samples for 14 parameters.

The department has also carried out the analysis of:

- Lead used for the pipe line work of Tumkur municipal water supply.
- Fine aggregate, coarse aggregate and admixture used for Nelamangala - Tumkur National Highway Road Project (NH-4).
- Ore sample supplied by the Tahsildar, Gubbi Taluk, Gubbi.
- Water analysis for Suguna Foods Ltd., Bangalore.
- FT-IR - Material Characterization.

Awards and Accolades (Faculty & Students):

Dr. H S Lalithamba, Associate Professor :

- Has received the distinction of 'Top 10 most downloaded OBC article in January 2010' for publication in Org. Biomol. Chem., 2010, 8, 835840, entitled "New and simple synthesis of acid azides, ureas and carbamates from carboxylic acids: application of peptide coupling agents EDC and HBTU.
- Has received Best Project Award 2013 for the student project entitled 'An efficient protocol for the Synthesis of



$N\alpha$ -Protected β -Amino Alcohols and Peptidyl Alcohols employing EDC/HBTU', organized by Indian Institute of Chemical Engineers on 14th May 2013.

- Has received outstanding Project of the Year 2013' for the student project entitled 'An efficient protocol for the Synthesis of $N\alpha$ -Protected β -Amino Alcohols and Peptidyl Alcohols employing EDC/HBTU', during the Seminar and exhibition held at Angadi Institute of Technology and Management, Belgaum on 30th and 31st August 2013.
- Has received award of seed money to Young Scientist for research' in 2013 by VGST Government of Karnataka.
- Has received outstanding Project of the Year 2014' for the student project entitled 'One-pot synthesis of Fmoc/Cbz-protected β -amino alkyl azides directly from alcohols' during the Seminar and exhibition held at KLE Society's B.V. Bhoomaraddi College of Engg. & Technology, Hubli on 28th and 29th July 2014.
- Has received Best Oral Presentation for the student project entitled 'Transesterification of Pumpkin oil using nano calcium oxide catalyst' in the National Conference on Recent Advances in Industrial Engineering and Applied Chemistry on 21st and 22nd October 2016 at SSIT, Tumkur.
- Has received Best Poster for the project entitled 'Designing, Synthesizing and Biological evaluation of peptides as potential antimicrobial agents using in vitro and in silico studies' in the National Conference on Recent Advances in Industrial Engineering and Applied Chemistry on 21st and 22nd October 2016 at SSIT, Tumkur.
- Has received Second Prize for the project entitled 'Antibacterial and Anti-inflammatory studies of dithiocarbamate-in silico and in vivo' in the 1st International Conference on Recent trends in Bioengineering (ICRTB 2018) at MIT School of Bioengineering, Sciences & Research MITADT University, Loni Kalbhor, Pune on 17th February 2018.

Dr. G. Nagaraju, Assistant Professor

- Has received award of seed money to Young Scientist for research by VGST in 2016, Government of Karnataka.
- Has received Best Oral Presentation award for the article entitled 'Template Free Synthesis of Doped (Ag, Pt) Bismuth Vanadate Nanoparticles and Their Photocatalytic Activity' at UGC sponsored two day National Conference on 'Recent Advancement in nano-Science and Technology (RANST-2017) held at Dept. of Chemistry, Govt. Science College, Chitradurga on 21st & 22nd April 2017.
- Has received Best Oral Presentation award for the article entitled 'Photocatalytic degradation of dye using rare earth metal substituted ferrite nanoparticles and its characterization', at National Conference on Recent Advances in Industrial Engineering and Applied Chemistry held at Dept. of Chemistry and Dept. of IEM, Siddhartha Institute of Technology, Tumakuru on 21st & 22nd Oct. 2016
- Has received Best Oral Presentation award for the article entitled 'Photoluminescence and antibacterial studies of ZnO nanoparticles via solution combustion synthesis', National Conference on 'Recent Advances in Applied Chemistry (RAAC-2015) held at 17th Dec. 2015 at Dayananda Sagar University, Bangalore.
- Has awarded the Faculty Visiting Fellow to work under the Supervision of Prof. Eswaramurthy, JNCASR, Bangalore during the year 2016-17.
- Has awarded the Faculty Visiting Fellow to work under the Supervision of Prof. Eswaramurthy, JNCASR, Bangalore during the year 2016-17.

Dr. V. Udaya Kumar, Professor & Head

- Has awarded "Second Prize" for poster presentation for Effect of Diisocyanates on Shape Memory Properties of

Polyurethanes" POLYCON 17, at 7th National Conference on "Novel Polymeric Materials (NPM)" Sri Jayachamarajendra College of Engineering, JSSS&T University, Mysuru, during 15-16, Sept., 2017.

- Has awarded "Third Prize" for poster presentation "Chemical Synthesis and Enhanced Electrical Properties of PEDOT : PSS-Graphene Nanocomposites", in the "Third International Conference on Nanomaterials: Synthesis, Characterisation and Applications, ICN 2018, during 11th-13th May 2018 organised by International and Inter University Centre for Nanoscience and Nanotechnology (IIUCNN), Mahatma Gandhi University.

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Mar. 14 - 19, 1993	Engineering Chemistry
2.	Oct. 03 - 09, 1997	Basics of Computers
3.	Mar. 09 - 14, 1998	Computer Based Numerical Techniques
4.	Aug. 17 - 22, 1998	Windows'95
5.	Feb. 08 - 13, 1999	Programming in C (Part - I)
6.	Sept. 14 - 19, 1999	Programming in C (Part - II)
7.	Aug. 23 - 30, 2000	Internet Fundamentals and Introduction to Java
8.	Aug. 26-31, 2002	Liquid Crystals
9.	Feb. 23-28, 2003	Chemical aspects of Biotechnology
10.	Aug. 21-27, 2003	Professional Communication
11.	Aug. 23-28, 2004	Instrumental Methods of Analysis and Molecular Spectroscopy
12.	Feb. 27-Mar. 2005	E-Business and Quality concept in Chemical Engg.
13.	Aug. 17-23, 2005	Recent Trends in Biotechnology
14.	Aug. 07-12, 2006	Novel Separation Techniques
15.	Jan.29-Feb.03, 2007	Professional Development
16.	Aug. 06-11, 2007	Academic Autonomy
17.	Jan.28-Feb.02, 2008	Biosensors & Bioinstrumentation
18.	Jan. 19-24, 2009	Wealth from Waste & Pedagogy
19.	Jan. 24-30, 2010	Characterization of Bio-organic and inorganic substances using analytical and spectral techniques
20.	June 25-30, 2010	Chemical Engg. Applications and Characterization of Materials
21.	Jan. 20-27, 2011	Nano Materials
22.	June 25-30, 2012	Recent trends in Chemical Engineering and Biotechnology
23.	June 24-29, 2013	Advances in Chemical Engineering and Biotechnology
24.	Dec. 07-08, 2013	Workshop on Ceramics and Advanced materials for Chemical Engineering applications
25.	July 17-19, 2015	Workshop on Materials for future technology
26.	Nov. 23-28, 2015	Workshop on Synthesis, characterization, electrical, magnetic Properties and applications of nanomaterials
27.	July 13-19, 2016	Workshop on Synthesis and characterization of nanomaterials and their engineering applications
28.	July 23-28, 2017	Workshop on Characterization techniques for the study of Thermo-Electric and Optical properties of Materials
29.	April 20-26, 2018	Workshop on Novel materials for Engineering and Environmental applications
30.	April 22-27, 2019	Hands on training on Microscopy and Thin Film Measurements

Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. V. Udayakumar M.Sc., Ph.D. Professor & Head	Catalysis - supported metal complex catalysts, Electrocatalysis,
2.	Dr. Shivakumaraiah M.Sc., Ph.D. Professor & CEO	Synthesis of Metal complexes and their applications, Catalysis - supported metal metal complex catalysts. Polymer Nanocomposites
3.	G.E. Rudreshappa , M.Sc. Associate Professor (Pursuing Ph.D.)	Synthesis of metal oxide nano-materials and their applications
4.	Dr. H.S. Lalithamba M.Sc., Ph.D. Associate Professor	Synthesis of Peptides and Peptidomimetics
5.	Uma. K. , M.Sc., B.Ed. Assistant Professor (Pursuing Ph.D.)	Synthesis of Peptides and Peptidomimetics
6.	Dr. Raghu. G.K. M.Sc., Ph.D. Assistant Professor	Electrochemistry
7.	Dr. G. Nagaraju M.Sc., Ph.D. Assistant Professor	Materials Chemistry
8.	Dr. Anil Rao. H.N., M.Sc., Ph.D. Assistant Professor	Synthesis of Polymer Membranes for Fuel Cell Applications

Advisory Board

Chairman :

- Dr. V. Udayakumar**
Professor & Head
Dept. of Chemistry, SIT, Tumkur.

Convener :

- G.E. Rudreshappa**
Associate Professor
Dept. of Chemistry, SIT, Tumkur.

External Members from other Institutions :

- Dr. N. Nagaraj**
Professor of Chemistry
St. Joseph's College, Shanthinagar, Bangalore.
- Dr. M. S. Dharmaprakash**
Professor of Chemistry
B.M.S. College of Engineering, Bangalore.
- Dr. Siddaramaiah**
Professor of Polymer Science & Engineering
SJCE, Mysore.

External Member from Industry :

- Dr. Rudresh. H.B.**
Proprietor, Vijaya Metal Finishers, Bangalore.

Internal Members :

- Dr. H.S. Lalithamba**
Associate Prof., Dept. of Chemistry, SIT, Tumkur

Patents :

Dr. Anil Rao H N, Assistant Professor of the Department has owned the following three patents :

- Macromolecular cross-linker block copolymer, cross-linked polymer membrane using the same and method for manufacturing thereof. **Agency:** Korean Patent. **Status:** Awarded.
- Self-aggregating comb-shaped polymers for anion exchange membranes. **Agency:** Korean Patent. **Status:** Awarded.
- Dr. Anil Rao H N, Assistant Professor of the Department has filed a patents "Alkyl bisimidazolium-mediated cross linked anion exchange membranes with comb-shaped structure". **Agency:** Korean Patent.



Department of Mathematics

Year of Establishment : 1963

Courses Offered :

The department of Mathematics offers programs for both graduate and post graduate students, by providing the foundation in mathematics that is crucial to the education of engineering students.

Ph.D. Programme : Ph.D. in Mathematics

Mission of the Department :

To provide every under graduate and post graduate student of SIT, the required mathematical knowledge for their professional career and further study in engineering.

Short Range Goals :

- To achieve excellent results in examinations.
- To create awareness among students in recent trends in mathematics by organizing quizzes and Olympiads.
- To take up sponsored projects from funding agencies such as VTU, AICTE & DST.
- To have more interdisciplinary interaction to pursue applied research.

Long Range Goals :

- To get recognition as a leading department in curriculum development / professional activities at the regional and national level.

Research Activities :

Areas of research being carried out :

- Fluid Dynamics
- Magneto Hydrodynamics
- Graph Theory
- Fuzzy Topology
- Soft Topology
- Finite Element Methods
- Natural Convection Problems
- Heat and Mass Transfer
- Finite difference Method
- Hydrodynamic Lubrication
- Differential Geometry
- Complex Analysis

No. of Ph.D.s Awarded : 08

No. of Research Scholars : 14

Research Publications :

National Conferences : 06

International Conferences : 02

National Refereed Journals : 09

International Refereed Journals : 219



Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. H.P. Patil , M.Sc., Ph.D., PGDCA Professor & Head	Fluid Dynamics
2.	Dr. Prasanna. B.M.R. M.Sc., Ph.D., PGDCA Professor	Finite Element Methods
3.	Dr. P. Usha , M.Sc., M.Phil., Ph.D. Professor	Graph Theory
4.	Dr. S. Suresh Kumar , M.Sc., Ph.D. Professor	Magneto Hydrodynamics
5.	Dr. M. Siddalinga Prasad , M.Sc., Ph.D. Associate Professor	Magneto Hydro Dynamics
6.	Dr. Manjula G.J. , M.Sc., Ph.D. Associate Professor	Magneto Hydro Dynamics
7.	Dr. P.S.K. Reddy , M.Sc., Ph.D., D.Sc. Associate Professor	Discrete Maths. & Real Functions
8.	Dr. N.G. Siddagangamma , M.Sc., Ph.D. Assistant Professor	Bio Mechanics
9.	Dr. P.S. Hemavathi , M.Sc., M.Phil., Ph.D. Assistant Professor	Graph Theory
10.	R. Chethana , M.Sc., M.Phil. Assistant Professor	Mathematical Modelling
11.	Dr. Basavaraj M Ittanagi , M.Sc., Ph.D. Assistant Professor	Topology
12.	G.N. Kavitha , M.Sc., Assistant Professor	Graph Theory
13.	G.P. Vanitha , M.Sc., Assistant Professor	Magneto Hydro Dynamics
14.	Raghu M. Banakar , M.Sc., Assistant Professor	Graph Theory
15.	Dr. R.T. Naveenkumar , M.Sc., Ph.D. Assistant Professor	Differential Geometry
15.	Dr. Tanuja. A. , M.Sc., Ph.D. Assistant Professor	Complex Analysis

Faculty Development Programmes

Sl. No.	Date	Topics
1.	Jun, 14 - 19, 1993	Engineering Mathematics
2.	Aug. 16 - 21, 1993	Computer Oriented Numerical Techniques-I
3.	Jan. 17 - 22, 1994	Computer Oriented Numerical Techniques-II
4.	July 02 - 09, 1994	Advanced Mathematics-I
5.	Mar. 01 - 09, 1995	Finite Element Method
6.	Sep. 04 - 09, 1995	Finite Element Method & Application
7.	Mar. 04 - 09, 1996	Advanced Mathematics-II
8.	July 08 - 13, 1996	Methods of Statistical Analysis
9.	Oct. 03 - 09, 1997	Basics of Computers
10.	Mar. 09 - 14, 1998	Computer Based Numerical Techniques
11.	Aug. 17 - 22, 1998	Windows' 98
12.	Feb. 08 - 13, 1999	Probability, Queuing & Computer Application
13.	Aug. 23 - 30, 2000	Internet Fundamentals and Introduction to JAVA

14.	Apr. 05 - 16, 2001	Oracle
15.	Sept. 17 - 22, 2001	Visual Basic
16.	Feb. 25-Mar.2, 2002	Fuzzy Engineering
17.	Aug. 26-31, 2002	Advanced topics in Applied Mathematics
18.	Feb. 23-28, 2003	Advanced topics in Mathematics
19.	Aug. 23-28, 2004	Advanced Techniques in Applied Mathematics
20.	Feb.27-Mar.04,2005	Advanced Techniques in Mathematics & Statistics
21.	Feb.06-11, 2006	Finite Elements Methods and Applications
22.	Jan.29-Feb.03, 2007	Professional Development Programme
23.	Aug. 06-11, 2007	Academic Autonomy
24.	Jan.27-Feb.02, 2008	Biostatistics & Biomodelling
25.	Jan. 19-24, 2009	Fuzzy Logic and Neural Networks
26.	Jan. 24-31, 2010	Linear Algebra
27.	June 25-30, 2010	Applied Probability & Statistics for Engineers
28.	Jan. 20-27, 2011	Computational Methods in Electronics & Communication Engg.
29.	June 25-30, 2012	Statistical Applications in Civil Engg.
30.	June 24-29, 2013	Algebra and Number Theory
31.	July 17-19, 2015	Introduction to Mathematical Analysis
32.	Nov. 24-28, 2015	Geogebra
33.	July 23-28, 2017	FOSS tools for Engineers & Scientists
34.	April 20-26, 2018	Orienting Mathematics teaching towards Engineering Applications
35.	April 22-27, 2019	Mathematics an essential tool for Engineering Applications

Advisory Board

Chairman :

Dr. M.N.Channabasappa

Director

Siddaganga Institute of Technology, Tumakuru

Co-chairman :

Dr. H.P. Patil

Professor and Head

Dept. of Mathematics, S.I.T, Tumkur

Convener

Dr. S. Suresh Kumar

Professor, Dept. of Mathematics, S.I.T, Tumakuru

Members from other Institutions :

Dr. Pradeep G. Siddheshwar

Professor, Dept. of Mathematics

Bangalore University, Bengaluru

Dr. G.D.V. Gowda

Professor and Dean

Dept. of Mathematics, TIFR, Bengaluru

Internal Members :

Dr. P. Usha

Professor, Dept. of Mathematics, S.I.T, Tumakuru

Dr. B.M.R. Prasanna

Professor, Dept. of Mathematics, S.I.T, Tumakuru



Department of MCA

Year of Establishment : 1994

Courses Offered :

PG Course : Master of Computer Applications

Ph.D. : Ph.D. in Computer Applications

Mission of the Department :

Imparting Quality Education to Students to make them professionals in their domain replete with the IT and computational skills par excellence.

Short Range Goals :

- ◆ Organizing quality improvement programmes for the faculty.
- ◆ Conducting programmes for the benefit of local community and society at large.
- ◆ Developing strong institute industry interaction.
- ◆ Establishing strong linkages with the alumni of the department.
- ◆ Providing a congenial atmosphere for research among both students and the faculty.

Long Range Goals :

- ◆ Integrating new technologies into instructions and curriculum.
- ◆ Developing linkages with regional, national and international organizations.
- ◆ Establishing software development center.

Facilities :

Laboratory Details :

Sl. No.	Equipments	Quantity
1	Intel Core 2 DUO processor optiplex 755, 1 GB RAM, 160 GB Hard Disk, DVD Writer, 17" TFT Monitor, Mouse , Keyboard	65
2	Dell Optiflex 330 Desktop Core 2 Duo, 1 GB RAM, 160 GB Hard Disk, DVD Writer, 17" TFT Monitor, Keyboard, Mouse	12
3	HP pro 3330 Desktop Intelcore I5-2400 CPU, 4GB DDR3-1333 500 GB 7200 RPM SATA, HP USB Keyboard, USB Optical Mouse & HP 18.5" TFT Monitor	12

4	IBM X Server P-IV 2.4 GHz, 256 MB RAM, 36.4 GB Hard Disk, 1.44 MB FDD, Mouse 48 X CD ROM, 15" Color Monitor, Keyboard	01
5	Dell Optiplex 3046 Intel Core I5 6500 Quad Core, 4GB DDR, 500GB HDD, 18.5" LED Monitor	06
5	P-IV 640 Processor 3.4 GHz, 512 MB RAM, 80GB Hard Disk, 15" TFT Monitor, Keyboard, Mouse (HP System) With Stabiliser	13
6	Printer Hp LaserJet Multifunction M1136	01
7	Printer Hp LaserJet M1005 MFP Printer	01
8	Hp Laser Printer 1020	07
9	Hp Laser Printer 1000	01
10	HP Scanner Jet 4850	01
11	LCD Projector Sony VPL Ex4	02
12	Sony VPC LS5	01
13	OHP Projector	02
14	Compaq Perserio Note Book	01
15	HP intel 1.73 Ghz 248 MB RAM with DVD ROM	01
16	Hp intel Core 2 Duo 2.00 Ghz, 2GB RAM, 150 GB HDD, DVD Drive	02
16	Digital IC Trainer Kit	11

Licensed System Software :

Microsoft Wndows NT 4.0, Microsoft Wndows NT 2000, SCO Unix 7.1, RHEL 4 Workstation, Microsoft MASM 6.0, Windows 2003 Server Enterprise Edition (100 Users).

Class Rooms :

All the class rooms are equipped with LCD's, fans and internet facility etc.

Faculty Chambers :

Independent chambers are provided to each faculty. Faculty members are also provided with desktop computer (with internet connection)and furniture.

Department Library :

1617 books are procured for the department Library.

Research Activities :

Areas of Research being pursued :

- Innovative methods and Applications of Soft computing in Ear Biometrics.
- Novel methods and Applications of Soft computing in Image Analysis and Intelligent Systems for retinopathy.

- Applications of Soft Computing Techniques in Software Effort Estimation.
- Medical Data Mining with Special reference Thyroid Diagnosis.
- Recognition and classification of Bulk Grain Samples using Soft Computing assisted Machine Learning.
- Development of Etheral Applicator for calibrated nutrient delivery to pineapple flowers.
- Mobile Value-Added Services to Citizens.
- IFRT-Innvoative Fertilizer Recommendation for Tumkur District.
- Online fertilizer recommendation for different crops of Tumkur District throgh GPS-GIS based fertility maps.
- Computer-Aided Diagnosis System for Brain Stroke Detection using Deep Learning.

No. of Research Scholars : 07

Research Publications :

National Conference : 22

International Conference : 38

National Refereed Journals : 07

International Refereed Journals : 83

Sponsored Research Projects :

Ongoing : 01

1. "Krishi Ganaka - A Kiosk aided soil fertilizer recommendation system for different crops of Tumkur District, Karnataka".

Funding Institution : VGST-RFTT, Bangalore

Amount : Rs. 5.00 Lakhs

Principal Investigator : Dr. B.G. Premasudha

Awards & Accolades (Faculty & Students) :

- Dr. M.A.Jayaram received a cash award of Rs 1,00,000 from TEQIP, for having published a textbook in 2007.
- Dr. B.G. Premasudha has received 3rd best paper award in International Conference and Indo-Canadian satellite Symposium on Pharmaceutical Sciences, Technology, Practice and Natural health. Ooty, India during 24th-26th Feb 2007.

- Dr. M.A. Jayaram received a certificate of commendation during 2009 and 2011 from the International Consortium for having succesfully organized 4th and 5th Indian International Conference on Artificial Intelligence in the Institute during Dec 2009 & Dec 2011 respectively.
- Dr. M.A. Jayaram has received lifetime achievement award from Sri Ramakrishna Students home during 2010.
- Mr. Mithun Todaker and Koshik Nandan have received cash award of Rs 30,000 and a Trophy from FKCCI during 2010 for their business plan presentation.
- Miss Divya.K, Miss Netra Marad and Miss Vidya.T.R received consolation prize and trophies for their business plan presentation from FKCCI during 2011.

Advisory Board

Chairman

1. **Dr. M.A. Jayaram**
Director, Dept. of MCA, SIT, Tumkur

Members from other Institution :

2. **Dr. N.V. Ramesh**
Professor, IIIT Bangalore
3. **Dr. B.B. Amberker**
Professor, Dept. of CS & Engg., NIT Warangal

Members from Industry :

4. **Dr. Gopala Krishna Sharma**
Director, Digital Lines FISERV Ltd., Bangalore
5. **Dr. Gopinath S Magge**
Chief Technical Architect, Siemens, Bangalore

Members from Alumni :

6. **Mr. N.V. Kumar**
Technical Evangelist, INFOSYS Ltd., Mysore
7. **Mr. Sheshapani**
Project Manager, Capgemini India Ltd., Bangalore

Internal Members :

8. **Dr. B.G. Premasudha**
Professor, Dept. of MCA, SIT, Tumkur
9. **Dr. Asha Gowda Karegowda**
Associate Professor, Dept. of MCA, SIT, Tumkur
10. **Dr. P.T. Bharathi**
Asst. Professor, Dept. of MCA, SIT, Tumkur



Faculty

Sl. No.	Name and Designation	Field of Interest/ Specialisation
1.	Dr. M.A. Jayaram, M.Tech., MCA, Ph.D. Director	Soft Computing Applications, Image Processing, Data Analysis
2.	Dr. B.G. Premasudha, B.E., MCA, Ph.D. Professor	Wireless Sensor Networks OOPs, Spatial Location Based Services
3.	Dr. Asha Gowda Karegowda MCA, M.Phil., Ph.D. Associate Professor	Data Mining Soft Computing
4.	H.S. Vijaya Kumar, MCA, M.Phil. Assistant Prof. (Pursuing Ph.D.)	Operating Systems, Soft Computing Applications in Retinopathy
5.	T.M. Kirankumar, MCA, M.Phil. Assistant Prof. (Pursuing Ph.D.)	Software Engineering, Soft Computing Applications in Software Effort Estimation
6.	C. Bhanuprakash, B.E., MCA Assistant Prof. (Pursuing Ph.D.)	DBMS, Soft Computing assisted DBMS
7.	Virupakshaiah. H.K., MCA, M.Phil. Assistant Professor	JAVA, Web Design
8.	Dr. Bharathi. P.T., MCA Assistant Professor	Image Processing
9.	Dr. G.K. Prashanth, MCA Assistant Professor	Programming Languages, Soft Computing in Ear Biometrics
10.	C.N. Ramesh, MCA, MSc. (Maths) Assistant Professor	.Net Technologies
11.	Venkata Reddy, MCA Assistant Professor	Object Oriented Modelling, J2EE

Faculty Development Programmes

Sl. No.	Date	Subject
1.	Jan. 17 - 22, 1994	Logic Design
2.	July 02 - 09, 1994	Unix & C
3.	Mar. 01 - 07, 1995	System Software
4.	Sep. 04 - 09, 1995	Oracle 7.0 (RDBMS)
5.	Mar. 04 - 09, 1996	VLSI (design)
6.	July 08 - 13, 1996	Data Structures using C
7.	Jan. 06 - 11, 1997	C++ (object oriented Programme)
8.	Oct. 03 - 09, 1997	Visual C++
9.	Mar. 09 - 14, 1998	Windows Programming
10.	Aug. 17 - 22, 1998	Developer 2000
11.	Feb. 08 - 13, 1999	JAVA
12.	Sept. 14-19, 1999	Visual Basic 6.0
13.	June 14-19, 2000	Date Base Management System
14.	Apr. 13 - 16, 2001	Active Server pages
15.	Sept. 03 - 08, 2001	Artificial Neural Networks and Engg. Applications
16.	Feb. 25-Mar.2, 2002	Modern Software Engg. practices using Rational Rose
17.	Aug. 26-31, 2002	Networking Programming
18.	Feb. 23-28, 2003	Wireless & High Speed Networks
19.	Aug. 21 - 27, 2003	Mathematics of Computation-I (Computational Group Theory)
20.	Jan 16-18, 2004 Feb. 05-07, 2004	Topics in Algorithms
21.	Aug. 23-28, 2004	Randomized Algorithms
22.	Aug. 17-23, 2005	Probability and Computation - I
23.	Feb. 06-11, 2006	.NET Technology
24.	Aug. 07-12, 2006	Data Mining and Distributed Database
25.	Jan.29-Feb.03, 2007	Professional Development Programme
26.	Aug. 06-11, 2007	Academic Autonomy
27.	Jan.28-Feb.02, 2008	Tally & Unix
28.	Aug. 01-07, 2008	Introduction to .Net and Programming in C
29.	Jan. 19-24, 2009	SQL & PLM Technologies
30.	Jan. 24-31, 2010	Data & Information Security
31.	June 25-30, 2010	Thrust Areas in Computer Science and Applications
32.	Jan. 20-27, 2011	Image Processing : MATLAB Tool Box
33.	June 25-30, 2012	Neural Networks and MATLAB Tool Box
34.	June 24-28, 2013	Big Data Machine Learning and Data Analytics
35.	July 17-19, 2015	R Programming
36.	Dec. 21-26, 2016	Software Project management
37.	July 23-28, 2017	R and Python Programming on Data Analytics
38.	April 21-26, 2018	Soft Computing Applications
39.	April 22-27, 2018	Internet of Things with Machine Learning



MoUs :

1. SCII Pvt. Ltd., Tumkur
2. TCS, Bangalore.
3. Argon Solutions, Bangalore
4. Navigem Labs, Bangalore
5. Inbridge Solutions Pvt. Ltd., Bangalore
6. Uni. of Agricultural & Horticultural Sciences, Shimoga
7. GKVK, Bangalore
8. Quawave Technologies, Bangalore



Department of MBA

Year of Establishment : 1997

Courses Offered :

PG Course : Master of Business Administration

Ph.D. : Ph.D. in Management

Mission of the Department :

"To develop professionally competent managers with social concern and high ethical values; offer inputs to the corporate world in enhancing productivity through research and consulting; and act as a nodal centre for development of rural and social entrepreneurship".

Short Term Goals :

- ◆ Strengthening the teaching and learning process by identifying 'Best Teaching Practices' on continuing basis.
- ◆ Starting the Journal of Management in the Department.
- ◆ Obtaining the national level accreditation by the accrediting agencies such as NBA.
- ◆ Improving societal and rural development activities.
- ◆ Setting up consultancy cell in the Department.
- ◆ Development of in-house case studies based on student projects.

Long Term Goals :

- ◆ Developing international collaborations through:
 - Twinning Programmes
 - Collaborative Research
 - Faculty Exchange
- ◆ Getting international accreditation by international agencies such as AMBA (UK), AACSB (USA), ACQUIS (France) etc.
- ◆ Instituting industry sponsored chairs in the Department
- ◆ Getting industry sponsored candidates for MBA programs.
- ◆ Developing the Department into a premier management institute.

Facilities :

- Well-Equipped Classrooms
- Computer Centre
- Library
- Value Adding Inputs
- Continuous Counselling and Discipline
- Sports and Other Activities
- Hostel Facility
- Refurbished curricula to suit industry requirements
- Strong alumni network
- Excellent placement support
- Regular industry interactions
- Recognized research centre
- Training on Soft-Skills

Placements :

SIT-MBA is equipped with a highly active placement office, which works throughout the year to find final placements and summer placements for the students.

Research Activities :

Areas of Research being pursued :

- Finance, Marketing, HR & General Management

No. of Ph.D.s awarded : 02

No. of Research Scholars : 16

Research Publications :

National Conference : 06

International Conference : 15

National Refereed Journals : 11

International Refereed Journals : 19

Consultancy and Testing :

- Consultancy project on "B2B Aggregator (Kirana11) and Kirana Stores Collaboration An Opportunity for Growth".
- Conducting GST Training Programmes for ITPI members

Faculty

Sl. No.	Name	Designation/Area
1.	Dr. M.R. Shollapur, M.Com. MBA, LLB., Ph.D.	Professor & Director - Finance
2.	Dr. S. Panneeselvam, M.Sc., MBA, PBDCSA, PGDOR, Ph.D.	Professor - Operations and Information Systems
3.	Dr. M. Ajoy Kumar, M.Com., ICWAI (Inter), Dip. in Bui. Mgmt., Ph.D.	Associate Professor - Finance & Accounting
4.	Prof. U.S. Mohapatra, B.Sc., (Ag) PGDM (IIM-A)	Associate Professor - Marketing & TQM
5.	Dr. C. Somashekar, B.E., M.B.A., Ph.D.	Associate Professor - Marketing
6.	Dr. V.V. Mani, M.Tech. (IT), M.B.A., Ph.D.	Associate Professor - Systems & Marketing
7.	Mr. Mahantesh Jakaty, M.A. (Indl, Psy), PGDIR & PM	Assistant Professor - OB & HR
8.	Mr. Manu T.U., B.E., M.B.A, NET (Management)	Assistant Professor - Marketing
9.	Dr. Preeti S. Desai, M.Com. (CS), M.Phil, ACS (Inter), , Ph.D.	Assistant Professor - Finance & Law
10.	Mr. Vivek. G.S, B.Com, M.B.A.	Assistant Professor - Finance & Accounting
11.	Mrs. Pushpalatha S Patil, B.E., M.B.A.	Assistant Professor - HR & QT
12.	Dr. Shreya Chakraborty, M.Com, CA(Inter), NET(UGC), PGDIM, Ph.D.	Assistant Professor - Finance & Accounting
13.	Dr. Gireesh. Y.M., M.A. (English), MBA, M.Phil., PGDMM, Ph.D.	Assistant Professor - HR

Awards & Accolades :

Faculty :

- Mrs. Preeti Desai has been awarded Ph.D. degree for her thesis titled "A Study on Corporate Governance and CSR Practices in Selected Health Care Organizations - Issues and Challenges" from Akkamahadevi Women's University, Vijayapura on 22nd January, 2018.
- Dr. C Somashekar has been awarded Best Presenter Award in ABC-2019 for the research paper entitled "Review of Social Media Activities in E-Marketing" in the one day national conference on "Paradigm Shift in Business and its Tryst with Social Media" organized by Acharya Institute of Graduate Studies, Bengaluru on 8th April, 2019.
- Ms. Shreya Chakraborty has been awarded Ph.D from Tumakuru University for her thesis on "Funding Mechanism Adopted for Financing Infrastructure Projects: A Study in Context of Indian Airports".
- Mr. Gireesh Y M has been awarded Ph.D. degree for his thesis titled "A Study on Practices of Human Resource Management that Influence Intrapreneurial Behaviour among Employees in Information Technology Organizations with Special Reference to Karnataka" from Jain University, Bengaluru.

Students :

- All the III semester students (2016-2018 Batch) were deputed to attend "NPCI-Campus Connect-

Campus Hiring" organized by SIT, Tumkur on 15.09.2017. 7 Students (Roshan Kumar, Sachin B Shekhar, R Prathibha, Sandesh C, Narendra B L, Sannuta N A, Thanvi R P) have won prizes in quiz competition.

- Anushree R, Aishwarya T S, Suhas M, Sushmitha K N, Amitha G, Kavya P, Akhila H M, Pooja P Murthy, Arpitha K N, Vishal G, Dileep S H, Srinidhi M, Asha M, Vijalakshmi S R, Namitha V, Sharadhi, Abhishek R, Bharath S Matale, Bharath S Gowda, Gokul P, Arjun, Manikantha, Arun, Chethan D B, Bharath S Gowda, Gokul P, Arjun, Manikantha, Arun, Chethan D B students of II semester attended National Level Management and Cultural Fest at RNSIT, Bangalore on 6th & 7th April, 2018. Students have won third prize in the finance event.
- Sandesh C, Rohith G H, Akash G, Madan B L, Ranjith H V, Likitha M C, Likith V, Nivedita A Dani, Moulya H K, Tejaswini H R, Shazia Shereen, Rakesh B T students of IV semester attended Two Day National Level Management Fest at SJCE, Mysore on 6th & 7th April, 2018. All the faculty members who are teaching IV semester are hereby requested to give attendance on 6th & 7th April, 2018. Students have won overall championship trophy.
- Students of I semester namely Ajay N G has won 4th place and Ramkumar T R has won 11th place in Marathon-5 kms 'Run For Rights' organized by State Human Rights Protection and Corruption Eradication Forum on 10-12-2018.

MoUs:

- MoU between Multi Commodity Exchange of India Limited, Mumbai was signed for conducting various interactive sessions, FDPs, research programmes, seminars, conferences and conclaves, introduce “Commodity Derivatives” in its curriculum for the management programmes, offering summer internships, consulting projects and joint research, conducting MCX Certified Commodity Professional course and share each other's publications.
- MoU between SIT-MBA and Institute of Tax Practitioners of India (ITPI), Bengaluru was signed for conducting training on GST. Under this MoU, the Department will have the responsibility of training all the members of the ITPI on GST.
- Letter of Intent between Austin University, USA was signed to establish ties of friendship and cooperation, promote mutual understanding, academic collaboration towards offering dual degrees, cultural and personnel exchanges and work toward more formal, complex, and binding agreements.
- MoU between National Academy of Customs, Indirect Taxes and Narcotics (NACIN) was signed to conduct GST Training Programmes for Tax Practitioners.
- MoU between Planet11 Ecommerce Solutions India Private Limited, Bengaluru was signed to provide up-to-date, complete and accurate data as required by the company and shall be at all times in compliance with the terms and conditions of this agreement.

Seminars & Symposia :

- National Conference on "Trending Research in Management (NCTRM-2017)" was organized by the Department on 05.05.2017.
- One Day Training Programme on "Goods & Services Tax" was conducted by the Department on 21.07.2017.
- Orientation Programme on "Usage of Capital Line Database" was organized for II Year Finance specialization students on 03.08.2017.
- One Day Training Programme on "Goods & Services Tax" was conducted by the Department on 08.08.2017.
- One Day Training Programme on "Goods & Services Tax" was conducted by the Department on 17.08.2017.
- One Day Training Programme on "Goods & Services Tax" was conducted by the Department on 08.09.2017.
- HR Conclave on "Union Settlement" was organized in association with HR forum, Tumkur on 27.10.2017.
- Prof. Malathi Bolar Memorial Lecture 2017 and Alumni Meet were held on 12.11.2017.
- Workshop on "Crafting & Conducting High Quality Research" was organized in association with IIM Ahmedabad in our Department on 9th & 10th December, 2017.
- Free Orientation and Mock Test for MBA aspirants was held on 03.02.2018. About 75 participants from various parts of India benefitted from this workshop.
- Three Day Training Programme on "Goods & Services Tax" was conducted by the Department on 16th, 17th & 18th February 2018 in association with National Academy of Customs, Indirect Taxes and Narcotics, Government of India.
- 3-day workshop on "Structural Equation Modeling" was organized in association with IIM Ahmedabad in our Department during 1st 3rd June, 2018.
- The training programme on 'Digital Literacy (Financial)' by Learning Link Foundation was arranged for II semester students on 01-06-2018.
- One day workshop on 'Resume Preparation' for II semester students by CV Dragon, Kolkata was arranged on 07-06-2018.
- One Day Symposium on AICTE Model Curriculum for Management Program (MBA & PGDM) was organized by the

Department on 10-07-2018. About 50 Directors and senior faculty members of different B-Schools were participated in the programme.

- Three day training programme on GST was organized during 8-10 August, 2018 in association with the Institute of Tax Practitioners of India (ITPI), Bangalore. 51 GST Practitioners from Karnataka, Kerala, Andhra Pradesh, Telangana and Tamil Nadu participated in this training and got benefitted from the programme.
- Three day training programme was organized during 4-6 Sept. 2018 in association with Institute of Tax Practitioners of India (ITPI), Bangalore. 40 GST Practitioners from Karnataka, Kerala, Andhra Pradesh, Telangana and Tamil Nadu got benefitted from the programme.
- Two-day workshop for Finance specialization students was organized in association with Karvy Financial Services, Pvt. Ltd. on 12-13 October, 2018.
- Three day training programme was organized during 25-27th Oct. 2018 in association with Institute of Tax Practitioners of India (ITPI), Bangalore. 30 GST Practitioners from Karnataka, Kerala, Andhra Pradesh, Telangana and Tamil Nadu got benefitted from the programme.
- Two-day workshop on Capacity Building Programme on Commodity Markets was jointly organized by Multi Commodity Exchange, Mumbai on 6-7 Sept. 2018. 40 participants from Industry and Academia participated in the programme. Further, the programme was coordinated by Dr. MAjoy Kumar.
- A special session on 'e-mail etiquettes' by Mr. Bala Murali, Senior Associate Trainer, Verbal and Soft Skills, Bangalore was arranged for I & II year students on 14-11-2018.
- Three-day programme on Advanced Aptitude Training was conducted for III semester students from 15- 17 Nov. 2018 by Connect Aptitude Pvt. Ltd., Tiruvaneli, Tamil Nadu.
- One-day workshop on “Leadership and Communication Skills” by Mr. Darshan Godbole, CEO, Wenger & Watson Inc., Bangalore and our Alumnus of our Department was organized to our students of HR specialization on 01-12-2018.
- Three-day training programme was organized during 12-14 Dec. 2018 in association with the Institute of Tax Practitioners of India (ITPI), Bangalore. 45 GST Practitioners from Karnataka, Kerala, Andhra Pradesh, Telangana and Tamil Nadu got benefitted from this programme.
- One-day workshop on “Introduction to Aptitude” by M/s. Seventh Sense, Bangalore was conducted to I-Year students on 21st December, 2018.
- One-day workshop on “Personal and Professional Excellence” by Disha Charitable Trust for Value Initiatives (R), Bangalore was organized for I -Semester students on 28.-12-2018.
- Two-day workshop on 'Digital Marketing' by Mr. Chandesh S, Digital Marketing and SEO Specialist, Vyasti Automation, Bangalore for Marketing Specialization students on 22-23 Dec. 2018.
- A one-day workshop by Mr. Darshan Godbole, CEO, Wenger & Watson Inc., Bangalore on the topic “Leadership and Communication” was arranged for Marketing Specialization students on 02-03-2019.
- Free Orientation and Mock Test for MBA aspirants was organized on 16-03-2019. 150 students from different colleges in Karnataka participated in the programme.
- Three-day training programme was organized during 4-6 April 2019 in association with the Institute of Tax Practitioners of India (ITPI), Bangalore. 52 GST Practitioners from Karnataka, Kerala, Andhra Pradesh, Telangana and Tamil Nadu got benefitted from this programme.
- One-day Seminar on INDUSTRY- 4.0 AND BUSINESS was organized in the Department on 24-04-2019. 250 participants participated in the programme.

Faculty Development Workshops / Seminars :

- In-House Faculty Development Programme was organized during 16th - 21st August, 2017.
- A Six Day In-house Faculty Development Program on the topic "Emerging Trends in Management: Pathforward in Teaching & Research" was organized for our faculty members from 29-08-2018 to 03-09-2018. Mr. Kiran Gaddi, Director-Operations Head, Cognizant, UK, Mr. Rajesh Parishwad, External Relations Manager, India Royal Society of Chemistry, Mr. Gururaj Chikkon, Principal Consultant, Infosys, Bengaluru, Girish V Gurjar, IIMBx, Bengaluru, Tilak Thomas, Business Development, CRM, Pedagogic Research, IIM-B, Bengaluru, Bengaluru, Dr. Shivaram Manoharan, Associate Professor, BMS College of Engg., Bengaluru, Dr. Shubha Muralidhar, Associate Professor, BMS College of Engg., Bengaluru, Dr. G V Prabhushankar, Dean (Aca), SIT, Tumakuru, Mr. Suresh Krishna, Co-founder and CEO, Yunus Business Fund, Bengaluru were the resource persons for the programme. Further, as a part of industrial visit faculty members visited Toyota Kirloskar Motor Pvt. Ltd.

University Ranks

Sl. No.	Year	University Ranks
1.	1998 - 2000	V & VI
2.	2000 - 2002	V & X
3.	2004 - 2006	VIII

Recipients of SIT Gold Medal (Toppers in MBA)

Sl.No.	Year	Name
1.	2008-2010	Lokesh. N.
2.	2009-2011	Pavithra Nayak. S.
3.	2010-2012	Priyanka R. Rao
4.	2011-2013	Sundar Pathak
5.	2012-2014	Sachin Veeranna Karadkal
6.	2013-2015	Thanmayi Niranjana
7.	2014-2016	Deepa. S.
8.	2015-2017	Abhishek. R.
9.	2016-2018	Divya Shree. S.

Advisory Board

Chairman :

Sri K. Jairaj, IAS (Retd.)
Chairman, Advisory Board - MBA, SIT, Tumkur
Former Additional Chief Secretary, Govt. of Karnataka
Former President, AIMA and Former Sr. Public Sector Management Specialist, World Bank, Washington DC

External Members :

1. **Dr. Chandra Akkihal**
Professor of Economics (Emeritus) & Former Director of MBA Programme Marshall University, Huntington (USA)
Chairman, Akkihal College, Dharwad
2. **Dr. Ramesh G Tagat**
Former Professor, IIMB, Former Director, SIT-MBA, Tumakuru
3. **Dr. Gopal Naik**
Professor, Chairperson, Centre of Excellence - Urban Dev, IIM, Bengaluru
4. **Dr. K. Eresi**
Professor of Commerce (Retd.)
Bangalore University, Bengaluru
5. **Dr. Mallikarjunappa**
Professor & Chairman, Department of MBA Mangalore University, Mangalore
6. **Mr. Aloysius P Fernandez**
Executive Director, 'Myrada', No. 2, Service Road, Domlur, Bengaluru - 560 071

Internal Members :

1. **Sri. T K Nanjundappa**
Secretary, SSES, Tumakuru
2. **Dr. M N Channabasappa**
Director, SIT, Tumakuru
3. **Dr. Shivakumaraiah**
Chief Executive Officer, SIT, Tumakuru
4. **Dr. Shivananda**
Principal, SIT, Tumakuru
5. **Dr. M R Shollapur**
Director, SIT-MBA, Tumkur
6. **Dr. S Panneerselvam**
Professor, SIT-MBA, Tumkur
7. **Dr. M Ajoy Kumar**
Associate Professor, SIT-MBA, Tumkur
8. **Prof. U S Mohapatra**
Associate Professor, SIT-MBA, Tumkur
9. **Dr. C Somashekar**
Associate Professor, SIT-MBA, Tumkur



Salient Features of Academic Autonomy

1. Preamble

Siddaganga Institute of Technology (SIT) is an autonomous institute affiliated to Visvesvaraya Technological University and is one of the reputed institutes in the state of Karnataka and rated as one among the top ten institutes in the state. Academic autonomy has provided a great opportunity for the institute to formulate the curriculum that meets the global requirements, adopt teaching-learning process that brings out innovation and creativity latent in the students and to emerge as a leading technical institute in the country.

The main advantage of academic autonomy is continuous learning and evaluation. Academic autonomy facilitates change over from hitherto absolute evaluation system to student centric grading system. To make the objectives a reality, it is essential that the faculty and the students work in tandem.

2. General structure of credit allocation

Every subject offered carries credits which are specified in the scheme of the study.

Credits allocated are based on : 1 credit for 1 lecture hour

1 credit for 2 tutorial hours

1 credit for 2 lab. hours

3. Registration

All the students should register, for the subjects as per the scheme of study, in each of the semesters (odd / even). The dates for registration are specified in the academic calendar of the Institute published from time to time. Registration by the students should be completed on the dates of registration specified in the academic calendar. Registration after the last date prescribed is not permitted. **Students should be present personally for registration.**

3.1 Eligibility requirements

- i. He/she should not have obtained F grades in hardcore subject five times consecutively.
- ii. A candidate shall be eligible for promotion from an even semester to the next odd semester (i.e. to the next academic year) as indicated below.

Illustrations :

- a) A candidate seeking eligibility to 3rd semester should not have W, Dp, NE or F grade in more than four subjects of first and second semester taken together excluding mandatory subjects.
 - b) A candidate seeking eligibility to 5th semester should not have W, Dp, NE or F grade in more than four subjects of 1st, 2nd, 3rd and 4th semesters taken together excluding mandatory subjects.
 - c) A candidate seeking eligibility to 7th semester should have passed in all the subjects of 1st and 2nd semesters and should not have W, Dp, NE or F grade in more than four subjects of 3rd, 4th, 5th and 6th semesters taken together excluding mandatory subjects.
 - d) For admission to 9th semester B.Arch. the students should have completed all the courses of 1st and 2nd year, and can carry FOUR courses of 3rd and 4th year.
- iii. Dues of the previous semesters to the Institution, Hostel and Library are paid.
 - iv. Should not have any disciplinary proceeding pending against the candidate.

4. Re-registration of subjects

- i. Students who have dropped, withdrawn, secured NE/F grade in subjects in any semester should repeat those subjects in their entirety to secure E or higher grades by re-registering in summer semester or as and when offered in the regular semesters, *subject to a maximum of 5 attempts (i.e. five consecutive F's)*.
- ii. If a student has dropped, withdrawn, secured NE/F grade in a professional elective / OE / HS subject / projects / seminar, then he/she can re-register for the same or different subject with the permission of DAAC.

5. Registration for summer semester

- i. Summer semester is of eight weeks duration and is offered at the end of even semester.
- ii. Summer semester is for students who have not registered during regular semester, dropped, withdrawn, secured NE/F grade in the subjects.
- iii. The list of subjects offered during the summer semester will be announced at the end of even semester.
- iv. Registration by the students should be completed on or before the registration dates specified in the academic calendar.
- v. **Registration after the last date is not permitted.**
- vi. A student is allowed to register for a maximum of four theory subjects with credit and one mandatory subject during the summer semester. Normally laboratory courses excluding CAED (I/II sem) will not be offered during the summer semester.
- vii. **Dropping and withdrawal of subjects are not allowed in summer semesters.**
- viii. **Compensatory test will not be conducted in summer semester.**
- ix. **X, I and NE grades are not awarded in summer semester.**

6. Rejection of results

A student may reject his/her results of all the subjects registered in a particular semester *only once in the entire academic period if he/she is not satisfied with the result of any semester.*

7. Lateral entry

Diploma Holders : Students admitted to Bachelor of Engineering at the III semester level will have to pass an additional credit subject, "Foundations of Mathematics", along with the regular subjects from III to VIII semesters.

8. Attendance Requirement

- i. A candidate has to obtain a minimum attendance of 85% in each subject to appear for the Semester End Examination (SEE). However, such of the students who have attendance between 75% and 84% may get condonation of attendance by the Principal only on valid grounds such as hospitalization, participation in university and intercollegiate sports, cultural activities, participation in seminar, workshop and paper presentation with prior permission.
- ii. Students having less than 75% are not eligible for condonation of attendance on any ground.
- iii. If a candidate fails to satisfy the minimum attendance requirements in any subject, NE grade is awarded to that subject.
- iv. The basis for the calculation of attendance shall be the period prescribed by the institute in its calendar of events. For I semester B.E. & lateral entry students, the attendance is reckoned from their date of admission. For all other semesters, attendance will be counted from the date of commencement of class as announced in the institute academic calendar.

- v. It is mandatory on the part of the students to regularly check the status of their attendance with the respective faculty.
- vi. Students who have secured NE grade in some subjects due to shortage of attendance or CIE have to re-register for those subjects either in the summer semester or whenever those subjects are offered.

9. Examination and evaluation

Evaluation of a student in each subject is a continuous process, which is based on:

- ◆ Continuous Internal Evaluation (CIE): 50% of the marks allotted for the subject.
- ◆ Semester End Examination (SEE): 50% of the marks allotted for the subject.

Details of marks distribution for evaluation of hardcore and softcore subjects is shown in Table 1.

Table 1

Details		Marks
First Test	CIE (50)	17
Second Test		17
Quizzes		4 x 3 = 12
Assignments / Seminar / Mini Project		4
Semester End Examination	SEE (50)	50
Total		100

- i. *If a student fails to obtain 40% (i.e., 20/50) of total marks allotted to CIE (in any credit course) then, such a student is awarded NE grade and will not be permitted to take SEE. Such students have to repeat the subject in its entirety by re-registering that subject when it is offered.*
- ii. **A student has to obtain a minimum of 40%, (i.e., 20/50 marks) of the marks allotted to SEE, failing which the result is declared as fail with F or X grade. X grade is awarded when a student has minimum attendance of 85% and minimum of 60% marks in CIE.**
- iii. Double evaluation of answer scripts of SEE is adopted (at least one of the examiners is external).
- iv. If the difference between the marks awarded by two evaluators is less than 10%, then the average of the marks awarded by the two evaluators is taken for further processing.
- v. If the difference between the marks awarded by two evaluators is more than 10%, then a third evaluator assesses the answer script. The average marks of the nearest two evaluations is taken for further processing. If one of the three evaluation marks falls exactly midway between the other two, then higher two evaluation marks are taken for averaging.

10. Evaluation of practical subjects

Each practical subject is evaluated for 100 marks with allocation of 50 marks for CIE and 50 marks for SEE.

11. Field training / Industrial Training (mandatory subject)

Students have to undergo this training for a period of 6 weeks (minimum) during the vacation between even and odd semesters of II or III year. Those students who are unable to complete during these periods will have to undergo the industrial training after the VIII semester and the VIII semester grade card will be issued only after the successful completion of industrial training by those student.

Evaluation of the training is done for 100 marks. This is a credit subject. A student has to get a minimum of 40% marks for a pass. If a student fails, then the training has to be repeated in its entirety.

12. Academic requirements for graduation

A student is awarded graduate degree when he/she has completed 175 credits (135 credits for lateral entry), 260 credits for Architecture and satisfies the following conditions :

- ◆ Should have completed all the registered subjects without securing F grades.
- ◆ Secured CGPA ≥ 5.00 .
- ◆ Obtained pass grade in all mandatory subjects.

13. Grade report

- ◆ Grade Card is issued to each student at the end of one month after the announcement of the results and a copy is sent to the parents.
- ◆ The percentage of classes attended will be indicated against each subject, in the Grade Card.
- ◆ After graduation a student can apply for a consolidated grade report by paying prescribed fee to the Institute.
- ◆ There is a provision for the issue of actual marks card after the graduation on payment of prescribed fee to the institute.
- ◆ For obtaining a duplicate grade card, the student has to lodge a complaint in the jurisdictional police station and obtain the FIR. An affidavit on a stamp paper duly signed by a Notary and FIR should be submitted to the principal.

14. Percentage equivalence of the Average Grade Points

Some times, it would be necessary to provide equivalence of the SGPA / CGPA with the percentages and/or class awarded as in the conventional system of declaring the result of university examinations. Table 2 gives percentage equivalence of marks to the average grade points on a 10-Point Scale. Table 3 gives the range of average grade points and the associated class.

Table 2

Average Grade Point (SGPA / CGPA)	Percentage of Marks
5.75	50
6.25	55
6.75	60
7.25	65
7.75	70
8.25	75

Table 3

Average Grade Point Range (SGPA / CGPA)	Class
5.75 to 6.74	Second
6.75 to 7.74	First
≥ 7.75	Distinction

15. Letter Grades

Awarding Letter Grades

- A letter grade is basically a qualitative measure indicating the performance of a student in that subject, such as Outstanding (S), Excellent (A), Very Good (B), Good (C), Average (D), Poor (E) and unsatisfactory / Fail (F).
- Letter grades are awarded for each subject based on the total marks obtained in CIE and SEE.
- Letter grades (excluding F) are awarded only when CIE is $\geq 40\%$ and SEE is $\geq 40\%$.
- The range of marks corresponding to letter grades is indicated in the Table 4. The grade point indicates the numerical value associated with each letter grade.

Table 4

Letter Grades	S	A	B	C	D	E	F
Grade Points	10	9	8	7	6	4	0
Absolute Marks out of 100	≥ 90	80 to 89	70 to 79	60 to 69	50 to 59	40 to 49	< 40

- v. There are two other letter grades, Pass (PP) / Fail (NP) applicable for mandatory subjects. Grade PP is awarded only when SEE ≥ 40% (20 out of 50 marks) and CIE + SEE ≥ 40% (40 out of 100 marks), otherwise the grade NP is awarded.

16. Transitional Letter Grades

Transitional letter grades (I, X) are awarded in the following cases. (I or X should be converted into one of the letter grades with in that academic year).

i. Incomplete Grade (I)

A student who has missed SEE due to valid reasons like his/her hospitalization/disaster in his/her family should immediately apply for the award of I grade in that subject. Clash in SEE time table (permission from COE has to be taken for clash in SEE time table). The IAAC (**Principal** as Chairman, Deans, COE, respective HOD as members) will decide about awarding I grade taking into consideration all the documentary evidences produced by the student. The student is permitted to appear for the SEE in that subject, which is conducted in either even semester or in summer semester of that academic year. His/her CIE marks secured in the subject earlier will be considered for the award of grade along with SEE marks.

If permission for I grade is not accorded by IAAC sub committee, then F grade is awarded for the subject and the student has to re-register for the subject in its entirety when it is offered.

I grade is not awarded for subjects registered during summer semester.

ii. X-Grade

If a student has a minimum attendance of 85% and a minimum 90% in CIE and has obtained < 40% marks in SEE, in regular odd or even semester, then, he/she will be awarded X grade.

- ◆ Such a student is permitted to appear for SEE conducted during that academic year without attending the classes and CIE secured earlier will be considered.
- ◆ If such a student fails to obtain E grade or above either in even or summer semester, he/she will be awarded F grade. The student should re-register for the same subject in its entirety whenever the subject is offered.
- ◆ If such a student fails to appear for SEE either in even semester or in summer semester of that academic year, X grade will be automatically converted into F-grade.
- ◆ However, a student who has been awarded X- grades also has the option of:
 - i. Reregistering of such subjects either during summer semester or whenever the subjects are offered.
 - ii. Audit the subjects during summer semester of that academic year by paying prescribed fees.
 - iii. X- grade is not awarded during summer semester SEE.

iii. Dropping of the subjects (Dp)

- ◆ A student, who wants to drop a theory subject, has to apply (Form-V) through concerned teacher, Proctor and HOD to the Dean (Academic) for permission.

- ◆ Students are not permitted to drop theory subjects that are associated with laboratory subject in that semester/any other semester.
- ◆ Dropping of practical subject(s) is not allowed.
- ◆ Mandatory subjects cannot be dropped.
- ◆ The dropping of the subject is allowed within the date specified in the academic calendar of that semester, usually eight weeks from the commencement of the semester. A student is allowed to drop a maximum of two subjects. If the student drops the subject within specified date, the fee for the subject dropped will be adjusted for subsequent registration of the same subject during the same academic year. The subject dropped will not be indicated in the grade card.
- ◆ Any re-registered subject cannot be dropped.

iv. **Withdrawal Grade (W)**

A student, who wants to withdraw a theory subject, has to apply in the prescribed proforma (Form-IV) through the faculty who teaches the subject, Proctor and HOD to the Dean (Academic) for the permission to withdraw.

- ◆ **A student is not allowed to withdraw/drop same subject more than once.**
- ◆ Withdrawal of practical subject(s) is not allowed.
- ◆ Students are not permitted to withdraw theory subjects that are associated with laboratory subject either in that semester or in any other semester.
- ◆ Withdrawal of a subject is allowed within the specified date in the academic calendar.
- ◆ If a student withdraws the subject after eight weeks from the commencement of the semester and up to fourteenth week, subject withdrawn will be indicated in the grade card, but will be exempted by paying registration fee.
- ◆ A student is not permitted to withdraw any subject after the specified date in the academic calendar.
- ◆ A student can withdraw maximum of two subjects including the subjects dropped.
- ◆ Students have to re-register the withdrawn subject in the summer semester or in the subsequent semesters during which the subject is offered.
- ◆ Withdrawal grade is not awarded during summer semester.

17. **Academic performance evaluation**

The academic performance of a student is indicated by two different indices, Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA).

- ◆ SGPA is an indication of the performance of the student in the current semester. SGPA is calculated as below :

$$SGPA = \frac{\sum [(Subject\ credits) (grade\ points)] \text{ for all subjects with letter grades. (in that semester)}}{\sum [(Subject\ credits)] \text{ for all subjects registered in that semester including F grades and excluding W and Dp subjects.}}$$

- ◆ CGPA is an indication of the cumulative performance of the student from the first semester up to the current semester.

$$CGPA = \frac{\sum [(Subject\ credits) (grade\ points)] \text{ for all the subjects whose letter grades are E and above from the I semester till the current semester.}}{\sum [(Subject\ credits)] \text{ whose letter grades are E and above from the I semester till the current semester.}}$$

The SGPA and CGPA are normally calculated to the second decimal position.

18. Extended Evaluation

- Such of the students who have not satisfied with the result of SEE, can apply for PHOTO copy and or Extended Evaluation on payment of prescribed fee with in the stipulated time as notified by the institute.
- Extended Evaluation is carried out by two external examiners independently. The average of the marks awarded by the external examiners is considered as the final marks in SEE for award of grade.

19. Vertical progression

For the vertical movement of students admitted during 2011-12 and prior :

- i) The CGPA has to be ≥ 5.00 at the end of academic year. However, failure to secure a minimum CGPA of 5.00 at the end of any academic year for the first time shall attract warning before approval of the student to continue in the following semester.
- ii) *For* registering to odd semester, he/she should not have F, W, NE and DROP grades in more than 4 subjects excluding Mandatory subjects.
- iii) There is no restriction for vertical movement from odd to even semester.

For the vertical movement of students admitted during 2012-13 and onwards :

- i) The CGPA has to be ≥ 5.00 at the end of academic year. However, failure to secure a minimum CGPA of 5.00 at the end of any academic year for the first time shall attract warning before approval of the student to continue in the following semester.
- ii. A candidate shall be eligible for promotion from an even semester to the next odd semester (i.e. to the next academic year) as indicated in 3.1 (Illustration).

20. Requirements for award of degree

Degree is awarded to the students satisfying the following requirements:

- i. Should have registered for subjects totaling to 175 credits in case of regular B.E. students (260 credits for B.Arch.) and 135 credits in case of students admitted through lateral entry for B.E. programme.
- ii. Should not have secured F grades in any of the hardcore subjects.
- iii. Should not have any transitional grades (I, W, X, NE, Dp) in any of the subjects.
- iv. Should have $CGPA \geq 5$ at the end of last semester.
- v. Should have passed in all the prescribed mandatory subjects.
- vi. Should not have any pending disciplinary proceedings.
- vii. Should not have any dues to the Institute.

21. Medals

To recognize academic excellence, following awards have been instituted.

Note: Awards will be given for those students who were not involved in malpractice in test/quiz/examination and on whom no disciplinary action taken.

If more than one candidate has the same CGPA, then awarding of medal will be decided based on number of S-grades / number of A-grades.

Table 5

1.	Student securing highest CGPA for the entire institute (passed all the subjects from 1 st to 8 th sem. in first attempt with out any transitional grades/dropping/withdrawal of the subject)	Dr. Sree Sree Sivakumara Swamiji Gold Medal
2.	Student securing highest CGPA in each department (Passed all the subjects from 1 st to 8 th sem. in first attempt only without any transitional grades/dropping/withdrawal of the subject)	SIT Gold Medal
3.	Best major project in each department	Cash Prize & Certificate
4.	Best mini projects i. Best inter-departmental mini projects - 2 nos. ii. Best departmental mini project 1 no.	Cash Prize & Certificate
5.	Best athlete amongst students	SIT Medal

22. Academic counseling

After the first test, the faculty in-charge reports to the HOD, about the students who have scored less than the minimum requirement of 40% in first quiz and first test. HOD, faculty in-charge and proctor counsel such students and advise them regarding the subjects to be dropped so that, he/she can concentrate on other subjects and perform better. An undertaking from such students to the effect that he/she :

- ◆ Shall attend all lectures, tutorials and laboratory classes regularly.
 - ◆ Shall not miss any quizzes and test.
 - ◆ Shall submit assignments regularly.
 - ◆ Shall not hold any office in any student activity of organization/Hostel.
 - ◆ Shall work hard to improve his/her academic performance.
- will be taken.

23. Termination from the program

A student is required to withdraw from the program and leave the Institute on the following grounds;

- i. Failure (securing F grade) in any hardcore/softcore subject for five consecutive attempts.
- ii. Failure to secure a CGPA ≥ 5.0 at the end of any semester for the first time, attracts a warning before approval to continue in the following semester. However, a student failing to secure CGPA ≥ 5.0 in five consecutive semesters has to withdraw from the engineering program. However, the student can take re-admission to 1st year.
- iii. Failure to meet the standards of discipline as prescribed by the Institute from time to time.

24. Provision for change of branch

Change of branch at the beginning of III semester is as per AICTE and VTU norms.



Curriculum

I & II SEMESTERS (Common to all branches)

I Semester (Physics Cycle)

1. Engineering Mathematics - I
2. Engineering Physics
3. Basic Electrical Engineering
4. Engineering Mechanics
5. Computer Aided Engineering Drawing
6. Engineering Physics Laboratory
7. Basic Electrical Engineering Laboratory
8. Kannada Kali/ Kannada Manasu

I Semester (Chemistry Cycle)

1. Engineering Mathematics - I
2. Engineering Chemistry
3. C Programming for Problem Solving
4. Basic Electronics Engineering
5. Chemistry Laboratory
6. Computer Programming Laboratory
7. Workshop & Manufacturing Science
8. Communicative English

II Semester (Chemistry Cycle)

1. Engineering Mathematics - II
2. Engineering Chemistry
3. C Programming for Problem Solving
4. Basic Electronics Engineering
5. Chemistry Laboratory
6. Computer Programming Laboratory
7. Workshop & Manufacturing Science
8. Communicative English

II Semester (Physics Cycle)

1. Engineering Mathematics - II
2. Engineering Physics
3. Basic Electrical Engineering
4. Engineering Mechanics
5. Computer Aided Engineering Drawing
6. Engineering Physics Laboratory
7. Basic Electrical Engineering Laboratory
8. Kannada Kali/ Kannada Manasu

Ragging and Punishment

Ragging means causing, inducing, compelling, forcing a student either by way of practical joke or otherwise, to do any act which detracts from human dignity or violates his/her person or exposes him/her to ridicule or to forebear from doing any lawful act by intimidating, wrongfully restraining, wrongfully confining, or injuring him/her or by using criminal force, extortion.

The following perverse actions also constitute the **ragging**.

i) Forcing to :

Address seniors as SIRS, Perform mass drills, Copy class notes and practical records for seniors, Carry out various errands, Do menial jobs for seniors, Drink alcohol and consume drugs, Do acts with sexual overtones and homosexual acts leading to physical injury/mental torture or death.

ii) Stripping / Kissing

iii) Any other related or allied acts of commission would also form **ragging**.

PUNISHMENT FOR ERRANT STUDENTS (RAGGERS)

1. Filing of first Information report(FIR) with the local police as per the Supreme Court direction.
2. Publishing the photographs or errant students(raggers) on the Notice Boards and in Local Newspapers.
3. Imprisonment for a term extendable up to one year or a fine of Rs.2000=00 or both.
4. Rustication, dismissal and expulsion from the Institute.
5. Embossment on marks cards and other academic certificates that he/she was indulged in ragging.
6. Non eligibility for getting passport or visa.
7. Non eligibility for campus recruitment/cancellation, if selected already.

PUNITIVE ACTION AGAINST NON-COMPLYING INSTITUTIONS

In case of the institutes having failed to combat ragging in any form, the State Governments and Universities should take cognizance of the failure of mechanism in the administrative machinery of the institute and treat this as ground for the disaffiliation of the institute. The regulatory bodies such as UGC/AICTE and State Governments should freeze the release of grants to such institutes.

ANNEXURE I, Part I

UNDERTAKING BY THE CANDIDATE / STUDENT

To

THE PRINCIPAL

Siddaganga Institute of Technology,
TUMKUR- 572 103. Karnataka.

1. I,
S/o. D/o. of Mr./Mrs./Ms.
have carefully read and fully understood the law prohibiting ragging and the directions of the Supreme Court and the Central Government in this regard.
2. I have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, and have carefully gone through it.
3. I hereby undertake that
 - k I will not indulge in any behavior or act that may come under the definition of ragging.
 - k I will not participate in or abet or propagate ragging in any form.
 - k I will not hurt anyone physically or psychologically or cause any other harm.
4. I hereby agree that if found guilty of any aspect of ragging, I may be punished as per the provisions of the UGC Regulations mentioned above and/or as per the law in force.
5. I hereby affirm that I have not been expelled or debarred from admission by any institution.

Signed this day of month of year.

Name :

Address :

Signature

ANNEXURE I, Part II

UNDERTAKING BY PARENT / GUARDIAN

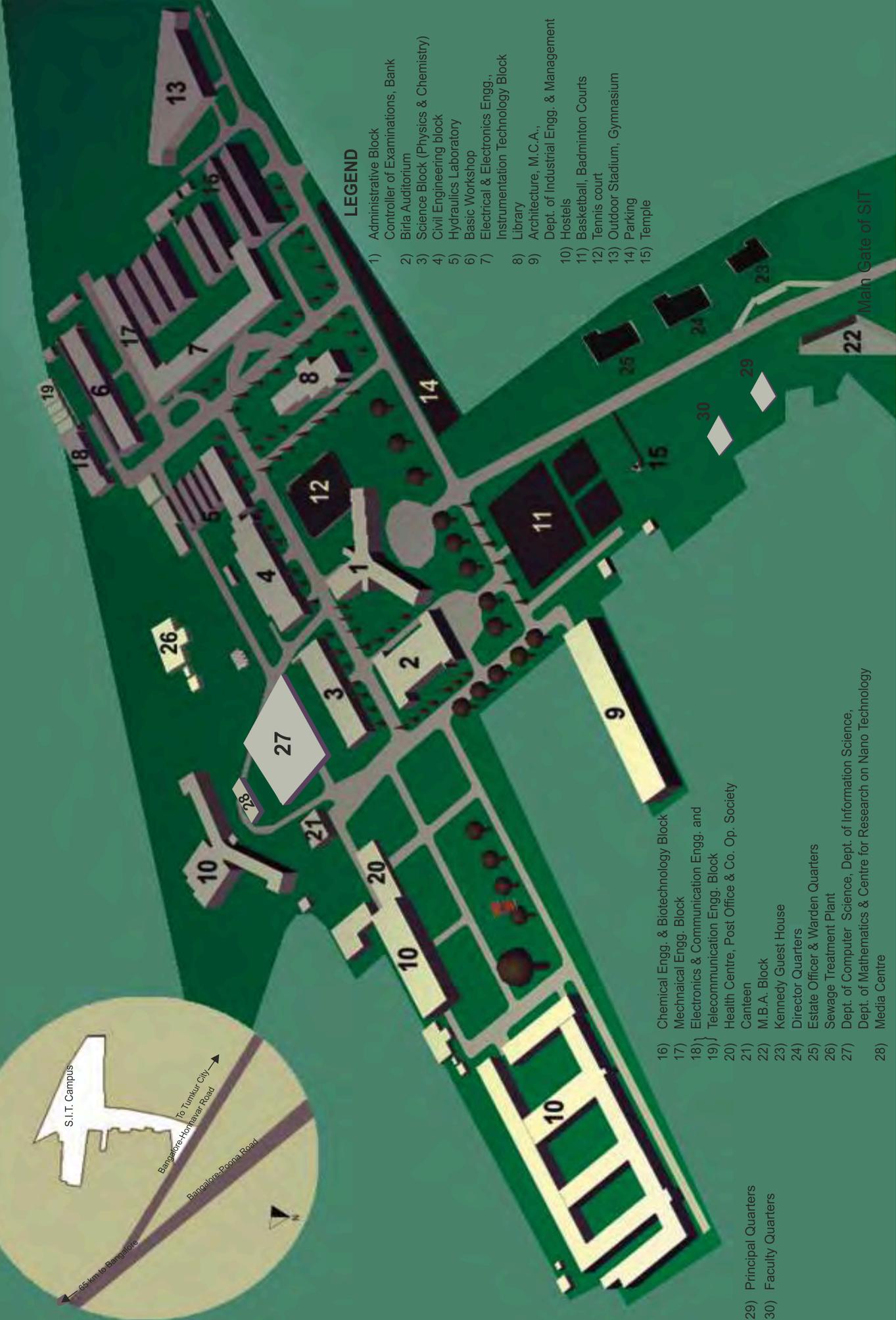
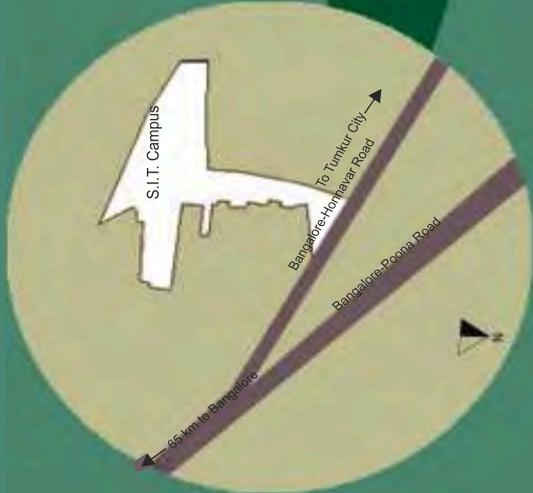
1. I,
F/o. M/o. of G/o.
carefully read and fully understood the law prohibiting ragging and the directions of the Supreme Court and the Central /State Government in this regard as well as the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009.
2. I assure you that my son/daughter / ward will not indulge in any act of ragging.
3. I hereby agree that if he/she is found guilty of any aspect of ragging, he /she may be punished as per the provisions of the UGC Regulations mentioned above and or as per the law in force.

Signed this day of month of year.

Name :

Address :

Signature



LEGEND

- 1) Administrative Block
- 2) Controller of Examinations, Bank
- 3) Birla Auditorium
- 4) Science Block (Physics & Chemistry)
- 5) Civil Engineering block
- 6) Hydraulics Laboratory
- 7) Basic Workshop
- 8) Electrical & Electronics Engg., Instrumentation Technology Block
- 9) Library
- 10) Architecture, M.C.A., Dept. of Industrial Engg. & Management
- 11) Hostels
- 12) Basketball, Badminton Courts
- 13) Tennis court
- 14) Outdoor Stadium, Gymnasium
- 15) Parking
- 16) Temple

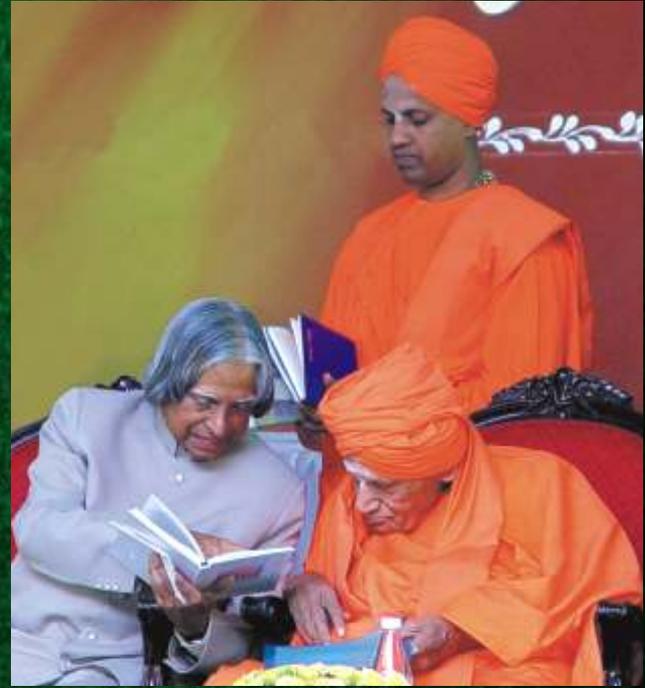
- 16) Chemical Engg. & Biotechnology Block
- 17) Mechanical Engg. Block
- 18) Electronics & Communication Engg. and
- 19) Telecommunication Engg. Block
- 20) Health Centre, Post Office & Co. Op. Society
- 21) Canteen
- 22) M.B.A. Block
- 23) Kennedy Guest House
- 24) Director Quarters
- 25) Estate Officer & Warden Quarters
- 26) Sewage Treatment Plant
- 27) Dept. of Computer Science, Dept. of Information Science, Dept. of Mathematics & Centre for Research on Nano Technology
- 28) Media Centre

- 29) Principal Quarters
- 30) Faculty Quarters

← Bangalore → Tumkur City →



Honourable Prime Minister
Shri Atal Behari Vajapayee with Rev. Swamiji
during the inauguration of the
Architecture Block at S.I.T., on 3rd January 1999



His Excellency Dr. A.P.J. Abdul Kalam,
President of India, with Rev. Swamiji
during 99th Birthday Celebrations of His Holiness
on 7th April 2006 at Sree Siddaganga Math



Dr. A.P.J. Abdul Kalam with Rev. Swamiji
and Shri M.N. Venkatachalaiah, Former Chief Justice,
Supreme Court of India during the inauguration of
Golden Jubilee Celebrations of SIT on 18-09-2013



Hon'ble Prime Minister Shri Narendra Modi
with Rev. Swamiji during his visit to
Sree Siddaganga Math
on 24th September 2014



Siddaganga Institute of Technology

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