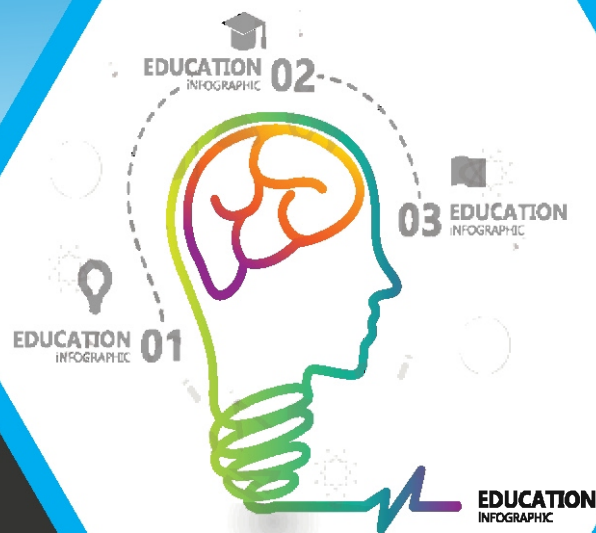




National Education Society ®
JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGG. SHIVAMOGGA
(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC – 'B',
Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)

📍 Savalanga Road, Navule, Shivamogga - 577 204 (Karnataka)
☎ 08182-276707/8/9, 2688800/1, Fax : 08182 - 222450
✉ principal@jnnce.ac.in. 🌐 www.jnnce.ac.in.



THE FUTURE OF
Excellence Begins Here...



NATIONAL EDUCATION SOCIETY® - EXECUTIVE COMMITTEE



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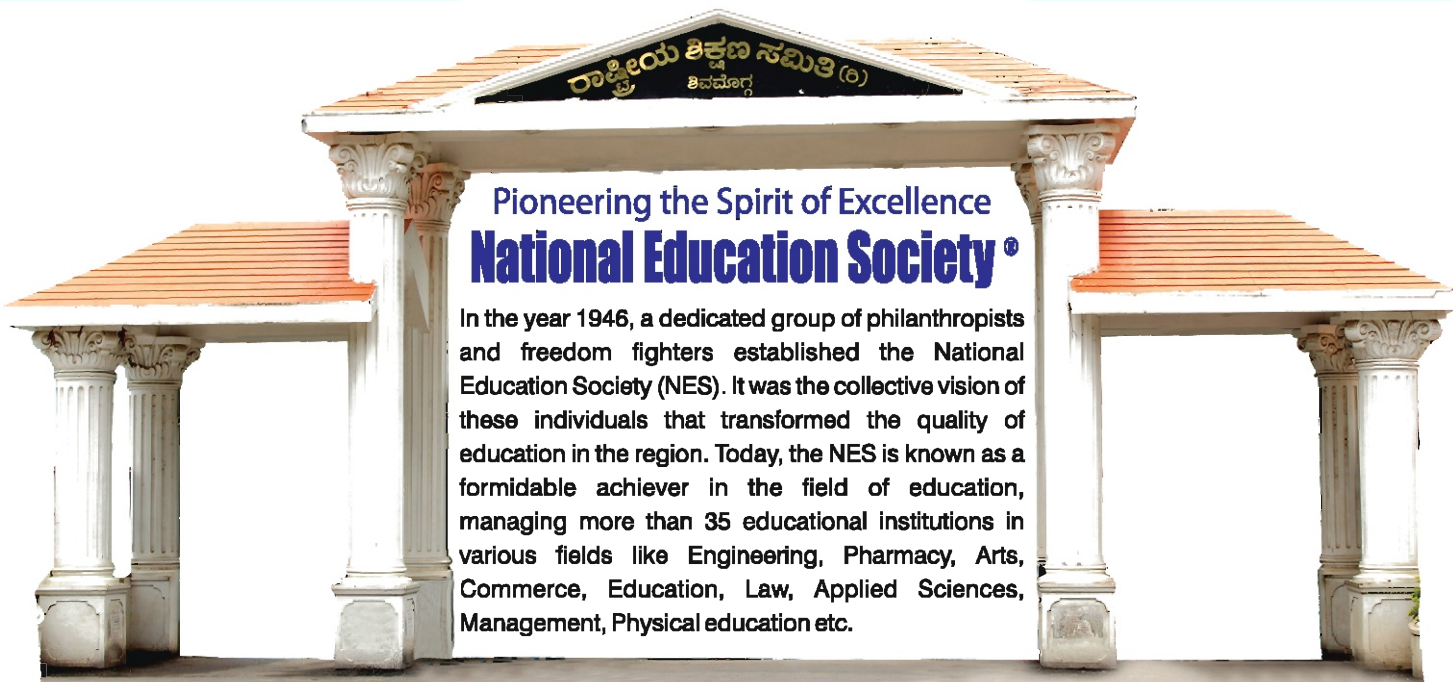


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Leadership Defined through Commitment



Pioneering the Spirit of Excellence National Education Society®

In the year 1946, a dedicated group of philanthropists and freedom fighters established the National Education Society (NES). It was the collective vision of these individuals that transformed the quality of education in the region. Today, the NES is known as a formidable achiever in the field of education, managing more than 35 educational institutions in various fields like Engineering, Pharmacy, Arts, Commerce, Education, Law, Applied Sciences, Management, Physical education etc.

- » The tireless efforts of NES have resulted in one of its premier institutions - Jawaharlal Nehru National College of Engineering (JNNCE).

- » From a modest beginning in 1946, the NES has evolved into a large, committed body with over 18,000 students and 1,000 teachers, each inspired and fuelled by the desire to excel.

"When I talk of excellence, it is constantly waiting to do better, never, never been satisfied with what we have achieved but always feeling that we can do better".

- Smt. Indira Gandhi

J.N.N.C.E. GOVERNING COUNCIL

Sri. A. S. Vishwanatha	President, NES, Shivamogga	Chairman
Sri. T. R. Ashwathanarayana Setty	Vice-President, NES, Shivamogga	Member
Sri. S. N. Nagaraja	Secretary, NES, Shivamogga	Member
Sri. D. R. Amarendra Klreeth	Joint Secretary, NES, Shivamogga	Member
Sri. C. R. Nagaraj	Treasurer, NES, Shivamogga	Member
Sri. M. Shankara Rao	Director, NES, Shivamogga	Member
Sri. H. V. Subramanya	Director, NES, Shivamogga	Member
Smt. Rukmini Vedavyas	Director, NES, Shivamogga	Member
Sri. Girimaji R. Ravindra	Life Member, NES, Shivamogga	Member
Prof. T. S. Hoovalah Gowda	Registrar, NES, Shivamogga	Ex-Officio Member
Dr. R. V. Praveen Gowda	Principal, Oxford College of Engg., Bengaluru	Member
		University Nominee
AICTE Nominee	Regional Director, South-Western Regional Office, AICTE, Bengaluru	Member
Govt. Nominee	The Director, Directorate of Technical Education, Govt. of Karnataka, Bengaluru	Member
Dr. L. K. Sreepathi	Vice Principal, J.N.N.C.E, Shivamogga	Member
Smt. Anuradha C. K.	Senior Assistant Professor, MBA Dept., J.N.N.C.E, Shivamogga	Member
Dr. H. R. Mahadevaswamy	Principal, J.N.N.C.E, Shivamogga	Member- Secretary



Continuing an
illustrious tradition

Principal's Message

- Dr. H.R. Mahadevaswamy



Jawaharlal Nehru National College of Engineering (JNNCE) is a flagship institute of National Education Society (NES), established by freedom fighters and philanthropists like Sri. H. S. Rudrappa, Sri. S. V. Krishna Murthy Rao, Sri.S. R. Nagappa Setty and Sri. D. S. Dinakar and developed by successors, Sri Girimaji N Rajagopal, Sri D. R. Ratnakar among other illustrious visionaries.

The tireless efforts and sacrifices of past and present Management Committee Members of NES have resulted in many developments and improvements with successful milestones over the last 39 years in JNNCE. In July 2016, the college started an initiative "Transformation for Excellence 2.0" for making JNNCE one of the top engineering, research, innovation and enterprising institutes in the next five years. During this journey of three years, we have set the focus on improving the quality of education, research & innovation, infrastructure development, employability of students and few more.

JNNCE was established in the year 1980 by National Education Society (NES), imparting education in Technology and Management. The college is running B.E (CSE, ISE, ECE, TCE, EEE, Civil & Mechanical), M.Tech (Machine Design, Computer Integrated Manufacturing, Transportation Engineering and Management, Digital Electronics & Communication Systems, Computer Science and Networking & Internet Engg), MCA and MBA programmes. JNNCE has been recognized by All India Council for Technical Education (AICTE), New Delhi, and Government of Karnataka, and is affiliated to Visveswaraya Technological University, Belgaum, also certified by UGC 2f & 12B and Accredited by NAAC-B. For more details about our college, please visit our website : www.jnnce.ac.in

The lush green sprawling campus of about 39.4 acres caters to the needs of nearly 3375 students and 464 staff, with state-of-the-art technology back-up, well-equipped laboratories and workshops, library, hostels, playgrounds and other amenities. The dedicated faculty of the institute comprises of 46 Ph.Ds as well as 141 with PG qualifications, amongst whom 56 are pursuing Ph.D.

JNNCE, firmly set on realizing its vision of becoming a pace-setting institute in technical and management education and research, has been successfully producing highly competent engineers, managers and entrepreneurs to meet the needs of industry, business and the society. In this direction, the just-now concluded 2018-19 academic year has been yet another fruitful year for the institute, as manifested in various accomplishments and new developments on all fronts, providing further impetus to its urge for excellence in the ensuing academic year 2019-20. NES Management, JNNCE Staff, Students and Alumni are constantly working towards achieving this goal.

I am happy to welcome you all to this great institution and present this Prospectus which gives you a bird's eye view of the profile, the performance and the progress of this institution.



Our Vision

To be a pace setting institute in technical & management education and research in producing highly competent engineers, managers & entrepreneurs to meet the needs of industry and society.

Our Mission

- * Impart quality education through flexible and innovative learning process.
- * Enable and ignite young minds to excel in their career and life with entrepreneurial spirit, professional ethics and human values.
- * Facilitate invention based research and collaborate with industries to address societal needs.



QUALITY POLICY

- * Providing state-of-the-art technology support and best possible educational infrastructure.
- * Development of faculty through supporting policies and procedures towards achieving higher qualifications, short-term courses, participation / presentations in seminars and conferences.
- * Encouragement to undertake research and consultancy, improving teaching - learning process by introducing innovative pedagogical and student interaction mechanism.



Courses

A wide spectrum of choice

At J.N.N. College of Engineering, the courses have been carefully structured to prepare graduates and post-graduates for the continuously changing world of knowledge, where students can perform in a highly competitive environment. The course materials and instruction methods can be compared to the best anywhere in the country. A highly qualified faculty and an excellent infrastructure, give students the best of theory and practice.

A. Under-Graduate Courses

(8 Semesters of 4 years duration leading to B.E. degree)

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

B. Post-Graduate Courses

1. Master of Computer Applications - M.C.A.
2. Master of Business Administration - M.B.A.
3. Master of Technology - M.Tech.
 - * Computer Science & Engineering
 - * Networking & Internet Engineering
 - * Design Engineering (Mechanical)
 - * Transportation Engg. & Management
 - * Digital Electronics & Commn. Systems
 - * Computer Integrated Manufacturing
 - * Power Electronics

C. Ph.D. and M.Sc. (Engg)

1. Civil Engineering
2. Mechanical Engineering
3. Electrical & Electronics Engineering
4. Computer Science & Engineering
5. Electronics & Communication Engineering
6. Master of Business Administration (M.B.A.)
7. Chemistry
8. Physics
9. Mathematics



Giving talent the edge

CENTRE FOR HUMAN RESOURCES DEVELOPMENT (CHRD)

A very functional wing of the institution, the CHRD provides a range of services to give students the competitive edge.

Placement and Training Cell

Under the guidance of a highly qualified and experienced Placement and Training Officer, students are oriented to the entire process of job selection. From interview-facing skills, mock tests, group discussions, personality development sessions, proficiency and aptitude evaluations, professional profiling system etc, through in-house and industry resource persons and placement experts / agencies, students go through the entire gamut. Large updated databases of companies, selection processes and methodologies, employment opportunities, job profiles, market trends, skills-in-demand, alumni and placement agencies ensure that students get the best career options. Students are provided soft skill training; exposed to emerging technologies by way of technical talks by Industry experts; workshops conducted in emerging and niche areas; do their projects in emerging technology field, involved in research projects like Artificial Intelligence, Machine Learning, IoT, Data Science, Additive Manufacturing, Gypsum Fiber Reinforced Glass (GFRB) based construction, Satellite Communication etc.

Also we have created the platform to pursue their projects in emerging technology fields and involve in research projects focusing social issues, agriculture, manufacturing, low-cost construction of building, healthcare, finance, etc.

The number of reputed companies visiting the college and percentage of placement is considerably increasing every year.

Our Major Recruiters



More than 250 students in Engineering and 145 offers from MBA of 2019 batch have got job offers during campus placement in various companies; highest salary offered during 2017-18 is Rs.13 Lakhs/per annum and average salary is Rs. 3 lakhs per annum.



Institutional Ranking / Rating

There is a remarkable improvement in the overall ranking in surveys done by leading magazines in 2019, as mentioned below:

- 1) Ranked 18th in India with A+ Grade, 5th in Admissions Selection Process and 7th in Academic Excellence in "Chronicle" Engineering College Survey.
- 2) Ranked 31st in India, 20th in South India and 8th in Karnataka in a survey by "The Week" Magazine.
- 3) Ranked 34th in India and 7th in Karnataka in "India Today" Engineering College Survey.
- 4) Ranked 48th among Top-100 Engineering Colleges of India in a survey by the "The Outlook" magazine.
- 5) Rating of AAA and user rating of 4.11 out of 5

Academics

Institution has bagged 14 ranks in VTU exam in last three years and in total so far secured over 100 ranks in university exams. We have introduced a mentoring process for potential rank holders as well as other students to help them perform better in their examinations. We reward students who excel in their studies, cultural, sports and research & innovation, by awarding cash prizes, partial waiver of tuition fees and merit certificates.

Since 2017-18, we have started to organize Graduation Day which is unique where in all students become eligible for Graduation (Graduands); this year's Graduation Day address was delivered by Mr. Naganagouda S Jakkanagoudar, Vice President & Head – Human Resource, Global Edge Software Ltd, Bangalore.

Introduced Closed Room Interaction with Final year Outgoing students by Principal to know their experiences, suggestions, feedback and used for improvement. Unlike the conventional method of teaching, JNNCE is practicing 'Outcome Based Education', where every subject taught has certain objectives to be fulfilled, which further fulfill the objectives of the department. In this direction, apart from the regular teaching,

- * Many workshops and faculty development programs are organized to gain practical exposure about the latest technologies currently used in industries.
- * Students are encouraged to participate in state and national level technical competitions conducted by various organizations throughout India.
- * Department level committees are constituted for (i) Academic Improvement (ii) Placement and Training (iii) R&D, Industry-Institute interaction.
- * Professional trainers are invited to teach life skills to students not only for campus interviews but also to prepare them for future.
- * Student feed-back is taken, which helps self-assessment.
- * Flip classes are being planned, where the notes, ppts and lecture videos are uploaded, so that it would help students to do better.
- * Students are encouraged to use web resource offered by VTU and NPTEL by IIT's

Industry-Institution Collaboration

From the last three years we are aggressively moving in establishing Industry-Institute collaboration to foster the practical knowledge among Faculty and students. In this direction, we have signed MOUs with many companies such as:

- * Qualitas Technologies Pvt Ltd, Bangalore
- * Laser Consult KFT, Hungary
- * Silfra Technologies Pvt Ltd, Bangalore
- * Gardenia Group, Noida
- * Aarohan Builders (Pvt.) Ltd, Ranchi
- * Newtech Group, Noida
- * Sorgen Systems, Hyderabad
- * Sugamya Academy for Excellence (SAFE), Mysore
- * ODC Universal Technological Solutions Pvt Ltd, India, Pune
- * Lekha Wireless Solutions Pvt. Ltd., Bangalore
- * Malnad Alloy Castings Pvt. Ltd, Shimoga
- * Global Infotech, Dharwad
- * JSS S&T University, Mysore
- * CISCO- RVCE, Bangalore
- * Tequed Labs Pvt. Ltd, Bangalore

Student Chapters of Professional Bodies

Several professional bodies' Student Chapters are active in JNNCE, which help the students become team players and develop leadership qualities. We have chapters of: Institution of Engineers (India), The Institution of Electronics and Telecommunication Engineers (IETE), National Service Scheme (NSS), Computer Society of India (CSI), Society for Automotive Engineers (SAE), Indian Institute of Foundry men (IIF) etc.

Conferences, Workshops, Symposiums

On a regular basis, all the departments organize and participate in conferences and workshops as part of continuous learning program, in association with

bodies like CSR, DRDO, NBHM, ISTE, IIT Bombay, IIT Khargpur, IETE etc. In last three years, JNNCE has organized about 40+ workshops; the faculty has attended about 50+ workshops/training and 100+ experts resource persons from IIT, IISc, Industry have visited JNNCE as guest speakers, paving the way for knowledge enhancement.

Contribution to Society by Staff and Students

Our staff and students are also involved in various activities contributing to the society. Be it visiting rural areas, blood donation camps, awareness camps, reaching to school children, go green projects, helping the district administration or reaching out to the needy for assistance, they are everywhere! Few of them are: Participating in Pulse polio program,

Cow donation and Youth parliament. Faculty from basic sciences departments are actively participating in CET coaching classes for PU students every year, Internet awareness program for housewives and senior citizens, Workshop on electronics, electrical and physics for high school students for over 300 students, staff as experts / committee members in district administration and Government departments, providing financial assistance to meritorious and economical backward students in the form of scholarships, organizing Blood Donation Camps in association with Rotary, Red Cross and Govt. Mc-Gann Hospital etc.

Alumni

More than 15,000 students who have passed out of this institution have been making significant contributions in -

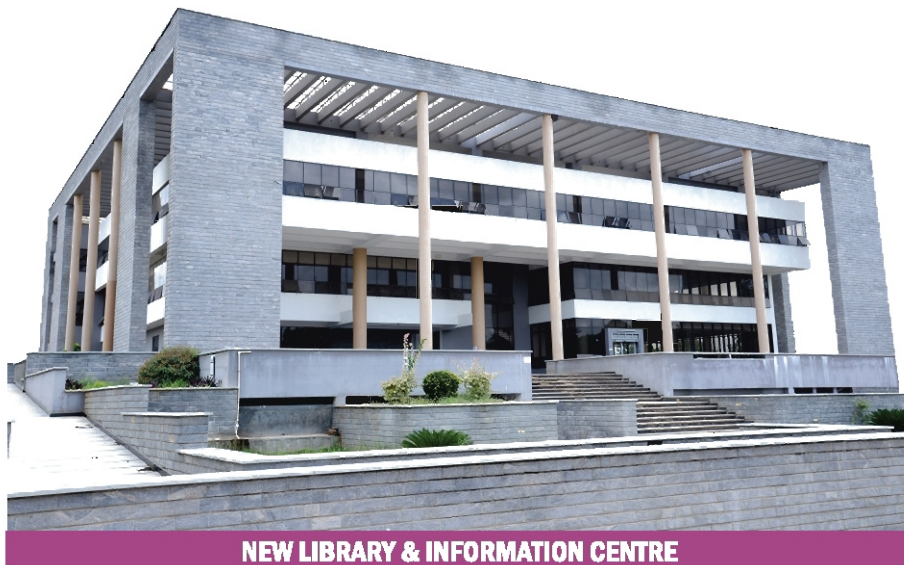
Industries, R&D organizations, Academic Institutions and Govt. Organizations in India and abroad and serving their alma-mater. The institute has an active and supportive Alumni Forum, which meets regularly and involves itself in the development of the institution by undertaking various activities. The vast alumni community has been brought on board by registration of Alumni Forum, and opening its chapters across the globe, launching a dedicated website, holding Global Alumni Meet, instituting Distinguished Alumni Awards, co-opting alumni in various administrative cells and panels, securing scholarships, internships, placements & sponsorships for our students, etc. We had organized Global Alumni Meet-2019 during May 2019 attended by 150+ alumni.

LIBRARY AND INFORMATION CENTRE

JNNCE library, housed in an exclusive and spacious block, has a collection of 1,19,418 books relating to all branches of Engineering and Management; digital library subscribes to 170 National & International e-journals through VTU Consortium. The Library has been computerized with e-Lib software.

Services Include

- Lending Service
- Reference Service
- Current Awareness Service
- Reprography Service
- Inter-library Loan Service
- Bibliographical Service on Demand
- CD-ROM Service
- Electronic Public Access Catalogue (E-PAC)
- Internet Service, On-line Access
- Non-book Materials Service
- DELNET Service
- Old Question Papers Service
- Newspaper & Magazine Service
- NPTL & NDL Services
- VTU Consortium Service



NEW LIBRARY & INFORMATION CENTRE

Nurturing the mind and body

In the spacious environment of the College, there is enough room for young aspiring students to excel in mind and body. Spacious playgrounds for football, cricket and athletics, an indoor hall for badminton, table tennis and a state-of-the-art gym, keep students fit and energetic.

Turf cricket ground of the college is one of the rarest facilities found among engineering colleges in the state. Karnataka State Cricket Association (KSCA) selection and tournaments take place in this ground. The college is also the venue for a host of sport events such as All India Inter Steel-Plant Cricket tournament, Inter-State Youth Football Championship, All India Inter-University cross-country championship, South Zone Inter-University half-marathon and Walking Race. The college has so far contributed to the sporting arena by nurturing 200 university players and 40 state players in a variety of games and sports. Construction of a new pavilion of international standards is completed with a cost of nearly Rs. 1.00 Crore. Ranji Trophy cricket match between Karnataka and Uttarpradesh was hosted in JNNCE grounds during December-2011. Syed Musthaq Ali T-20 BCCI South zone matches were played during March 2013. International cricket between INDIA-A Vs WEST INDIES-A team was played during October 2013. JNNCE, Sports Department had organized the South Zone Inter University Cricket (M) Tournament 2018-19 from 14th to 23rd January 2019. 96 University Teams with about 1000+ cricketers from South India had participated in the tournament. The tournament was held in 12 grounds simultaneously in Shivamogga and Mysuru.

The cultural activities span a Music Club, Uththana-the arts & literary forum, and several departmental newsletters showcasing student talent. Inter-collegiate cultural festivals are organized every year.

The NSS induces students to participate in various social activities such as blood donation camps, village adoption, means of low cost construction, etc.



STUDENT AMENITIES



STUDENT AMENITIES CENTRE (SAC)



COLLEGE CANTEEN



BOY'S HOSTELS



GIRL'S HOSTEL



- * Separate hostels for boys and girls set in clean surroundings offer peace and solace after the academic rigors of the day. The rooms are spacious, well-ventilated and the meals served are hygienic and nutritious being provided at an affordable cost of Rs. 45/- per day.
- * A fleet of college buses provide the transport facility to the students.

Other facilities such as a bank, ATM, post office, co-operative society, and reprography centre offer a world of convenience to students. A Medical Center with a qualified Doctor caters to the medical needs of students and staff. These facilities with a modern cafeteria are housed in a separate Students' Amenities Centre (SAC) building. All this adds up to an environment where the mind and body are carefully nurtured so that every student evolves as a true professional.



The many facets of brilliance

Almost every aspect of engineering has been accommodated in the curriculum of the college. Each Department is led by senior academicians with vast experience who are supported by other qualified staff.

A host of sophisticated facilities, laboratories etc., define the highly professional method in which education is imparted to students, in each engineering discipline.



*“College Corridors...
Silently marking thousands of foot steps
walking up and down
towards desired destinations!”*



Department of Civil Engineering

This department of the college, set up in 1980, boasts of an accomplished faculty, many of whom are doctorates. Recognized as a research centre by Kuvempu University and Visvesvaraya Technological University, this department facilitates research that leads to Doctoral and M.Sc. (Engg.) degrees and offers M.Tech. Programme in Transportation Engineering and Management.

The department also acts as a nodal centre for World Bank aided projects - Karnataka Nirmala Grama Yojana, Integrated Rural Water Supply and Environment Sanitation Projects. Active programs with Builder Association of India and Visvesvaraya Technological University provide a forum for engineers in Government organizations which expose them to contemporary education programmes. The department has got sophisticated softwares such as ARCHI - CAD, AutoCAD, Road Estimator, Super Civil, 3D Studio Max, Revit Architecture, MX Roads etc

The department has state-of-the-art laboratories with every facility to make learning informative and enjoyable. The faculties regularly publish technical papers at national / international conferences. By providing design and consultancy services to both private and government organizations, the Civil Engineering department generates additional revenue that is used to pursue developmental projects.



DEPARTMENTS

The different dimensions of excellence



Department of Mechanical Engineering



DEPARTMENTS

The different dimensions of excellence

Established in 1980, this department has a dynamic, highly qualified & experienced faculty that is constantly engaged in R&D activities. Fully equipped labs with CAD/CAM/CAE and CNC training facilities and Condition Monitoring lab provide an environment where students experience the vast expanse of Mechanical Engineering. The department has a number of research projects in the areas of stress analysis, vibration and composite materials sponsored by AICTE/VTU. This department also offers M.Tech Degrees in Design Engineering and Computer Integrated Manufacturing and has been recognized as a research center by VTU, leading to Doctoral and M.Sc.(Engg.) degrees.

The department regularly conducts workshops for faculty and students, and special training in CAD/CAM /CAE and Robotics areas. The faculty has several papers published in national and international journals to their credit. Each year the department takes up assignments that focus on technical problems faced by industries. Students have won several awards for their projects and have been actively involved in the co-curricular & extra-curricular activities. The department is actively engaged in developing many innovative projects useful for agriculture and industries. The Automatic Sugarcane Seed Scoping machine recently developed by the department has got wide recognition and awards.



Department of Computer Science & Engineering



DEPARTMENTS

The different dimensions of excellence

One of the contemporary and the most sought after departments of the institution was established in 1991. It offers two PG Programmes, viz., M.Tech in Computer Science & Engg. and M.Tech in Networking & Internet Engg. This department has well-planned labs that orient students to the latest in Computer Science and Engineering. Highly qualified & experienced faculty is the main strength of the department. It is also recognized as a research centre by Visvesvaraya Technological University. The faculty of this department have been actively involved in research and have published papers at national and international levels. This department offers M.Sc. (Engg.) and Ph.D. Programmes. Students of this department have been participating in technical forums and winning awards at national levels. A comprehensive library exposes students to the world of information technology from an international perspective.



Department of Electronics & Communication Engineering



DEPARTMENTS

The different dimensions of excellence

One of the first departments to be set up in 1980, it has a distinct relevance in the realm of today's technology. M.Tech Programme in Digital Electronics & Communication Systems has been started from the academic year 2011. This department is now housed in spacious premises that contain every modern facility and state-of-the-art equipment - the latest IBM servers and PCs. The strength of this department is its highly qualified & experienced faculty and an active IETE student chapter that participates in a number of technical activities like seminars, guest lectures, industrial visits, paper presentation competitions, publication of newsletters, etc. A well-stocked and organized department library provides a wealth of information to students.

The department organizes Short Term Training Programmes (STTPs) that benefit a host of engineering colleges and polytechnics while orienting their faculty to the latest technologies. An interesting facility of this department is the Amateur Radio Club that lets students learn HAM using YEASU HAMS set, fabricates and test their hobby projects.

The faculty and students of this department have been known to publish several papers at national and international levels. A pioneering effort of this department is in the field of Character Recognition for Indian Languages, Cryptography and Mobile communication. It has also developed "Online Character Recognition Systems" for Kannada, Telugu and Tamil languages as R&D projects. The department has been recognized as research centre by Visvesvaraya Technological University for pursuing Ph.D and M.Sc (Engg) degrees. Students of the department are actively involved in developing many useful innovative projects.



Department of Electronics & Telecommunication Engineering



DEPARTMENTS

The different dimensions of excellence

With the able support of a distinguished faculty, this department was established in 2000. The state-of-the-art facilities planned include a Microwave Engineering lab, Analog and Digital Communication lab and Computer Communication labs. An agenda of ISTE recognized short-term training programmes, workshops and conferences ensures healthy interaction and has enabled students to compete and win awards at national levels.

Within a short span, the department has grown tremendously with the efforts and hard work of its highly qualified & experience faculty. This branch has a holistic knowledge of electronics, communication and computers and is a real convergence of IT.

The department encourages students to participate in IETE student forum activities, both co-curricular and extra-curricular, to orient them to the scope, relevance and usage of technology by publishing papers at national and international levels. Students of the department are undertaking many useful innovative projects. The department is coordinating the Remote Centre of IIT-Bombay in the college where short term courses are conducted for staff and students by video conferencing.



Department of Information Science & Engineering



DEPARTMENTS

The different dimensions of excellence

Established in the year 1999, the department has well qualified & experienced young, dynamic and enthusiastic faculty. The department offers a unique combination of courses and projects that help students cope up with the recent advancements in the computer industry. All major aspects, viz., Theoretical Computer Science, Computer Hardware, Computer Networks and Computer Applications have been addressed in the syllabus. The department has 4 laboratories, viz., Windows Lab, Linux Lab, Hardware Lab and a separate lab for first year students. All the laboratories are equipped with the high-end, latest computers and software. The department has library facility for students. Co-curricular & extra-curricular activities bring out the best in students and many of them have represented the university and won awards. The department handles EDUSAT distance learning programmes of the university and Campus networking of the institution.



Department of Electrical & Electronics Engineering



DEPARTMENTS

The different dimensions of excellence

Established in 1980, the department is recognized as a research centre by Visvesvaraya Technological University to offer Ph.D and M.Sc (Engg.) degrees. M.Tech Programme in Power Electronics has been started from the academic year 2014. Highly qualified, dedicated and experienced faculty imparts training to students in the field of power systems, power electronics, power quality and control engineering in order to handle the requirement of current industry and research. An active AICTE/ISTE approved training programme orients the faculty as well as visiting engineers from industries, to emerging trends, processes etc. This department also undertakes consultancy assignments for Government Departments and private organizations, generating revenue and building its credentials. Students are actively engaged in research projects in the area of power systems.



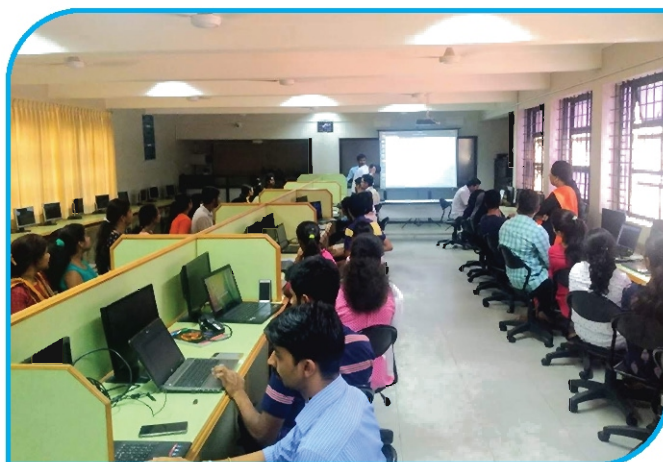
Department of Computer Applications (MCA)



DEPARTMENTS
The different dimensions of excellence

Anticipating the impending boom in the IT industry, the MCA department was started in the year 1995. Structured courses with special emphasis on advanced topics such as DBMS, Software Engineering, Computer Graphics and Multimedia applications, prepare prospective IT professionals to the challenges of the future. The drive behind the department is the dedication and commitment of a highly qualified & experienced faculty supported by excellent infrastructure facilities with high-tech labs resulting in excellent university results every year. Several national and international research papers and books have been published by the faculty members.

Professional external training agency provides exclusive Soft Skill training programme for students every semester to improve their skill sets such as analytical & technical aptitude, professional skills, communication skills and interview skills. Student mentor scheme/counseling system ensures adequate monitoring and guidance of students' academic and non-academic performance and progress. Campus interviews by reputed Companies are arranged for placements. MCA Forum of the department provides a platform for professional activities and interaction between current and old students during Alumni meets to share their industry expectations and experiences.



Department of Management Studies (MBA)



DEPARTMENTS

The different dimensions of excellence

Started in the year 1996, the department offers two year full time MBA course, with the option of single or dual specialization in Finance, Marketing and HRM.

The Department is endowed with highly qualified & experienced full-time faculty, with an average experience of more than 13 years in academics and industry. The department is a recognized Research Centre to offer Ph.D. degree in Business Administration; so far Eight research Scholars have obtained their PhD Degree, Presently Eleven research scholars are pursuing their Doctoral Research at the centre. The department has been organizing National Seminars and various workshops and Staff & Student Development Programmes. Faculty publications in conferences & journals exceed 150. The Department's library, having more than 11,000 volumes of books and 25 national and international journals, is one of the largest libraries amongst university-affiliated management institutes in Karnataka. The department has Computer centres with more than 120 latest computers, with internet facility.

Theory-based practical exposure is given through Guest Lectures, Case-studies, Mini-projects, Market surveys, Seminars, GD, Management Games & contests, Publications, Add-on courses, B-School Social Responsibility (BSR) Activities etc. Weekly Programmes and Special Lectures by faculty members offer wide-ranging exposure and experience to students.

Students are given additional courses on business communication, personality development, and computer proficiency to improve their skills. An MOU has been entered into with a professional agency to offer training in Personal & Professional Skills Development to the students. Student mentoring & counseling system ensures adequate monitoring and guidance of students' academic performance and progress. Summer project / Internship training is arranged for students in reputed companies and the Placement / Training cell takes care of training the students to get placements in leading corporates. Former students of this institute are well-placed in several reputed companies. The department takes great pride in its dynamic, participative and supportive Alumni network. A centre, UTTHANA has been started in the department for promoting Arts, Culture & Humanities.

The institute, with its objective of 'Moulding Careers with Character & Competence' is being developed with a vision to impart comprehensive, vibrant and innovative management education to prepare budding business managers and entrepreneurs with a futuristic drive to stand up to global excellence. It follows the transformative learning that combines intellectual growth with deep understanding and application of the knowledge in the real life scenario through sound business acumen and judgment.



Basic Sciences & Humanities Department



DEPARTMENTS

The different dimensions of excellence

PHYSICS

Physics department has labs with sophisticated equipment and faculties who are actively involved in research. The department has expertise in the field of environmental radioactivity and nuclear radiation and has produced a number of papers in this area. Vision Group on Science & Technology, Government of Karnataka has sanctioned Rs.40 lakhs for the department for the establishment of Environmental Radio Activity Measurement lab.

CHEMISTRY

Chemistry department has been shifted to new building recently. Department has fully equipped labs and unique 'Fusion Science Lab' for research and consultancy. Path-breaking work is being done through AICTE-sponsored projects on river water and air pollution. Faculties are actively involved in research in the field of Environmental Chemistry, Electrochemistry, Corrosion studies and Coordination Chemistry and they are publishing scientific papers in reputed national and international journals.

MATHEMATICS

Mathematics department having highly qualified & experienced faculty is involved in research and have published papers at national and international levels. It is also actively involved in national conferences and tracking international developments in related fields.

HUMANITIES

Humanities department having qualified & experienced faculty, conducts courses in General English, Constitution of India, Professional Ethics and Environmental Science and also manages the Language Lab.



Research and Consultancy



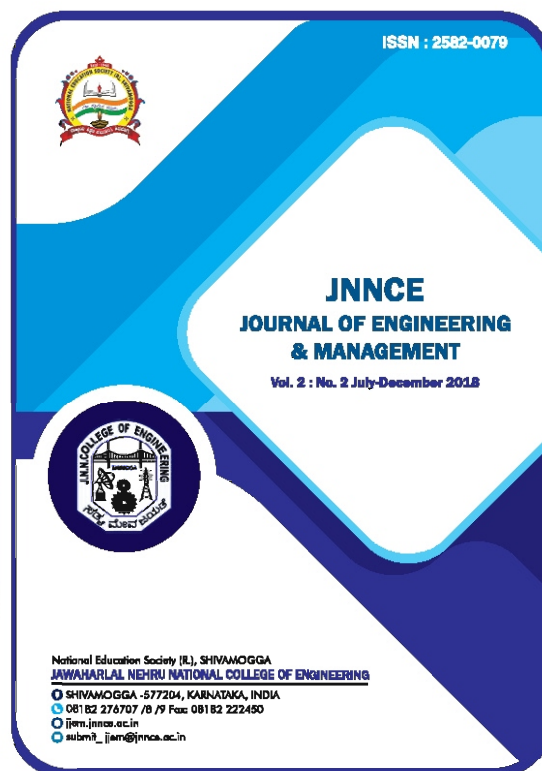
For the last two years, our objective is set to focus on research and innovation so that education quality will improve. Our Faculty and students are pursuing research in emerging areas to solve the societal problems.

- * The faculty have presented and published more than 500 papers in national and international seminars, conferences and journals.
- * Funded Research projects worth more than Rs. 1.5 crore have been carried out in the institute.
- * The institution has organized one International Conference and four National Conferences /Seminars on different academic and intellectual themes successfully.
- * To motivate innovation-based research among faculty and students, a Research and Innovation Centre in JNNCE (JNNRIC) has been started during 2017-18.
- * So far 49 candidates obtained Ph.D. degrees from JNNCE under Research Centre of VTU.
- * We have instituted the system of felicitating Faculty who obtain their Ph.D. degree in a grand function addressed by eminent persons from academics or industry. Each awardee is honored, along with giving financial assistance to become member of professional body.
- * During the year, the College has also launched a bi-annual, in-house newsletter titled "**JNNCE Beacon**" to showcase the events and developments on the campus.

- * To encourage research and publication, the institute has launched its own online bi-annual research journal, titled "**JNNCE Journal of Engineering & Management**" (JJEM) in October 2017 and has obtained ISSN (2582-0079) for the same; four issues, containing research papers from scholars, both from India and abroad, have been already released and the fifth issue is now under process. Only very few Institutions across India have their own Research Journal, JNNCE is one among them.
- * Many projects catering to the need of the society are being developed; few of them are:
 - ▷ Innovative Pervious paver blocks which is intended to avoid Water stagnation over pedestrian sidewalks and to recharge the ground water,
 - ▷ IOT for HOME to make all the home appliances controlled by an Android app,
 - ▷ Automatic Fetal Detection in Ultrasound Images for early detection of abnormality,
 - ▷ Target Eliminator & Home Security Surveillance for smarter way to provide home security,
 - ▷ Computational Genomics- Development of search tool, sequencing and analysis tools for Scientists and Research scholars in the field of Genomics,
 - ▷ AROGYA MITRA for emergency alerts and early diagnosis of disorder,
 - ▷ Internet of Things for Optimization of power dissipation in campus for efficient utilization of power controlling the lights through Android mobile etc.



KTES - 2019 EXCELLENCE AWARD CEREMONY



- * JNNCE has applied for starting NewGen Innovation and Entrepreneurship Development Center (NewGen IEDC) under the aegis of NSTEDB, DST, Govt. of India at JNNCE with grant of Rs. 2.87 Crore over a period of 5 years. JNNCE is one of the Institutions obtained this grant among 250+ Institutions that had submitted applications and only college in Karnataka, who got this grant. Objective of this grant is to create the platform for Innovation & Entrepreneurship and create companies with objective of generating revenue, creating jobs and wealth. Under this scheme, it is planned to create about 25 companies on the campus in the next 5 years, creating 300+ direct jobs.
- * Institute had organized Karnataka Tech Entrepreneurship Summit (KTES)-2019 from 14th to 16th February 2019, with objective of promoting entrepreneurship and start-ups in Shivamogga. More than 15 technical sessions comprising of Invited Talks, experience-sharing, panel discussions, exhibition, workshops, felicitations to distinguished entrepreneurs, and cultural evening were held. More than 25 resource persons and more than 200 delegates from all over the country took part in the programme.
- * JNNCE has submitted more than 25 research proposals seeking funding from Department of Science & Technology, Govt. of India, AICTE, KCTU, Govt. of Karnataka and in last two years we generated revenue of Rs.70 lakhs from consultancy. Few among them are project proposal under DHI-TPEM Technology Platform for Electric Mobility under DST and Consortia is formed between JNNCE, Smart Energy Solutions, Mysore, CSIO-CSIR, BITS, Pilani, IITM, Ann Arbor Michigan, Kinetic Motors, Volvo.

CONSULTANCY

The institution strongly encourages structured consultancy. A policy decision is taken by the institution to share the revenue generated by doing consultancy among the faculty members and institution.



KTES - 2019 AWARD WINNERS

Out of the income received from outside sources under consultancy, 50% will be provided to the faculty members (both teaching & non-teaching staff) and remaining 50% will be utilized for the research work facilities like software, hardware, Consumable and non consumable items.

- ❖ The department of Civil Engineering undertakes the following consultancy work :
 - Construction material testing such as brick, steel, soil and aggregates etc.
 - Caters the need for designing of Civil Engg. Structures, hydraulic structures etc.
 - Involved in providing mix design details, Soil investigation, Surveying etc.
 - Department has expertise in various fields. The district administration and Government departments are using the services of the experts in the form of committee members.
- ❖ The department of Electrical Engineering actively engaged in testing and certification of Electrical Machines such as motor and transformers, street light fixtures etc., and Industrial lighting consultancy work. Energy auditing for local industries is undertaken as students' final year project work which is part of the curriculum.
- ❖ The department of Mechanical Engineering undertakes the consultancy in :
 - Testing of equipments, Design and development of lab experimental setup.
 - Rain water harvesting, fuel testing and solar systems.
 - Wear testing of metals and composites.
 - Condition monitoring of machinery.
 - The department of Electronics & Communication Engineering is involved in installation & set up and quality assurance & certification of Computers and CCTV in Govt. organizations.



FELICITATION TO FACULTY ON GETTING AWARDED PH.D DURING 2017-18

Admission Procedure

All admissions are made through common entrance tests conducted by Government of Karnataka / COMEDK / AIEEE.

ELIGIBILITY

A. B.E. Degree Course

Students who have passed PUC / 10+2 or equivalent examination with Physics and Mathematics along with Chemistry / Biotechnology / Computer Science / Electronics / Biology as optional subjects with English as one of the languages of study and obtaining at least 45% (40% for SC/ST/OBC) of marks in the optional subjects. Diploma candidates are also eligible for admission of respective branches for second year B.E. under lateral entry scheme.

B. Master of Computer Applications (MCA)

Bachelor's degree with a minimum of 50% (45% for SC/ST and category -1) of marks in the aggregate of all the years of degree examination. Provided that he/she shall have passed bachelors degree with not less than fifty percent of marks with Mathematics or Statistics or Computer Science or Computer Programming or Computer Applications or Business mathematics or Business Statistics as one of the optional or elective. Provided further that in respect of candidate who has studied and passed one of the subjects specified in the first proviso in the Pre-University course with 50% of marks in that shall also be considered for admission.

C. Master of Business Administration (MBA)

Bachelor's degree in any discipline with a minimum of 50% (45% for SC/ST and Category-1) of marks in the aggregate of all the years of degree examinations.

D. Master of Technology (M.Tech)

1. M.Tech in Computer Science & Engineering:

Bachelor's Degree in Computer Science & Engineering / Information Science & Engineering or equivalent degree.

2. M.Tech In Networking & Internet Engineering:

Bachelor's Degree in Electronics & Communication / Telecommunication / Computer Science & Engineering / Information Science & Engineering or equivalent degree.



Lush Green Campus



3. M.Tech In Design Engineering :

Bachelor's Degree in Mechanical Engineering / Automobile Engineering / Automation & Robotics Engineering / Industrial & Production Engineering or equivalent degree.

4.M.Tech In Transportation Engineering & Management:

Bachelor's Degree in Civil Engineering / Construction Technology & Management / Transportation Engineering or equivalent degree.

5.M.Tech in Digital Electronics & Communication Systems:

Bachelor's degree in Electronics & Communication / Electronics & Telecommunication Engineering / Telecommunication or equivalent degree.

6.M.Tech In Computer Integrated Manufacturing:

Bachelor's Degree in Mechanical Engineering / Industrial & Production Engineering / Automobile Engineering / Manufacturing Science & Engineering / Industrial & Engineering Management or equivalent degree.

7. M.Tech In Power Electronics:

Bachelor's Degree in Electrical Engineering / Electronics & Communication Engineering/ Telecommunication Engineering / Bio-Medical Engineering / Medical Electronics / Electronics & Telecommunication Engineering / Electronics & Instrumentation Engineering / Instrumentation Technology or equivalent degree.

General Eligibility for all M.Tech courses:

Minimum of 50% (45% for SC/ST/Cat-1) marks in aggregate of all the semesters of the degree examination. Should have PG CET rank or GATE qualified.

(NOTE: Eligibility criterion is subject to change as per University and Government norms).

General Information about various disciplines

The structure of the entire course for all branches of B.E. programmes is uniform. Every semester a student will study six theory and two practical subjects. Students study mathematics till fourth semester as one of the subjects.

Rigorous practical training is imparted to students in the theory subjects they study in each semester. They can choose elective of their choice from 3rd year onwards.

IT related branches: Electrical and Electronics Engineering (E&E). Electronics & Communication Engineering (E&C), Telecommunication Engineering, Computer Science & Engineering (CS&E), Information Science & Engineering (IS&E) branches are referred to as IT related branches. Many subjects of E&E, E&C and TCE branches are common till fourth semester. The difference between E&C and TCE branches is very minimal. However, choosing suitable electives can offset even this minimal difference. Similar is the case with CS&E and IS&E branches.

Ragging in any form is strictly prohibited in the college / hostel / canteen / bus / outside campus. Anti ragging squad and other measures are In-force. Ragging is non - ballable offence and persons can be arrested immediately without any warrant.



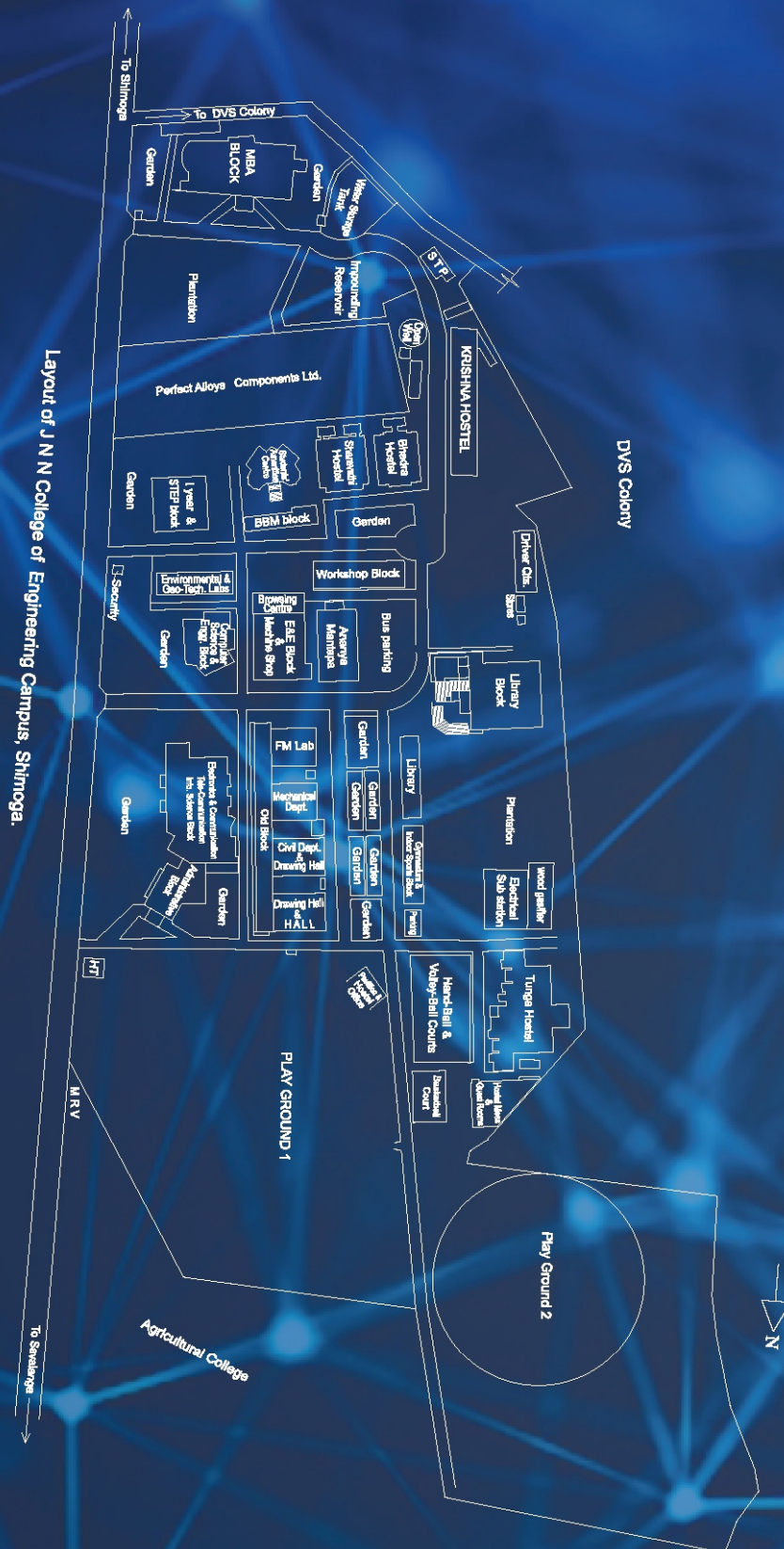
GRADUAND'S DAY - 2019

INSTITUTIONS MANAGED BY NATIONAL EDUCATION SOCIETY

Sl. No.	Year of Establishment
1	National P.U. College, (High School Section) Shivamogga. 1946
2	Kasturba Girls P.U. College(High School section),Shivamogga 1954
3	National Higher Primary School, Shivamogga 1956
4	National P.U College (High School section), Konandur 1960
5	National P.U. College (High School section), B.R. Project 1962
6	Jayaprakash Narayan P.U. College (High School section), Shivamogga 1963
7	S.V. Krishnamurthy Rao National College of Education, Shivamogga 1963
8	National High School, Chilur. 1964
9	National High School, Kumsi. 1964
10	Sri Thirthalingeshwara National High School, Belagutti. 1964
11	Sri. Padmamba National High School, Humcha 1965
12	Kamala Nehru Memorial National College for Women, Shivamogga 1966
13	Acharya Tulsi National College of Commerce, Shivamogga. 1966
14	C. Bhimasen Rao National College of Law, Shimogga 1968
15	National College of Pharmacy Shivamogga 1967
16	Sharavathi National High School, Harige. Shivamogga 1969
17	H.S. Rudrappa National P.U. College (College section), Shivamogga 1972
18	Kasturba Girls P.U. College (College section),Shivamogga 1972
19	National Junior College (College section), Konandur. 1972
20	Jawaharlal Neharu National College of Engineering Shivamogga 1980
21	National P.U. College (College section), B.R.Project. 1983
22	Sharavathi First Grade National College, Konandur. 1983
23	National Lower Primary School, Shivamogga 1983
24	Indian High School, Shivamogga 1984
25	Jayaprakash Narayan P.U. College (College section), Shivamogga 1986
26	S.R.N.Memorial National College of Applied Sciences, Shivamogga 1994
27	Sri. Thirthalingeshwara National P.U.College, Belagutti, 1994
28	National Residential School, (High School Section) Konandur. 2000
29	National Residential School, (P.U. Section) Konandur. 2001
30	National Public School, Shivamogga. 2008
31	D.S. Dinakar Polytechnic, Shivamogga. 2008
32	NES Institute of Advance Studies 2009
33	Kadidal Manjappa National Institute of Post Graduate Studies (M.Com), Shivamogga. 2011
34	National Higher Primary School, Shivamogga (English Medium) 2012
35	Acharya Tulsi National Evening College of Commerce, Shivamogga. 2018



Aerial View of JNNCE Campus



National Education Society®
JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGG. SHIVAMOGGA

(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC - 'B',
Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)

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