



ANNUAL REPORT 2020-21



NATIONAL EDUCATION SOCIETY (R)
**JAWAHARLAL NEHRU NEW
COLLEGE OF ENGINEERING**
Shivamogga, Karnataka
(Approved by AICTE, New Delhi, Affiliated to VTU, Belagavi)



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NATIONAL EDUCATION SOCIETY (R)
**JAWAHARLAL NEHRU NEW
COLLEGE OF ENGINEERING**
Shivamogga, Karnataka



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.



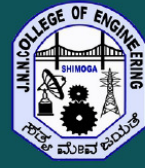
QUALITY POLICY

- * 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.

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NATIONAL EDUCATION SOCIETY (R)



“Gateway of Educational Excellence”!



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1. ABOUT NES

During the Freedom struggle, Mahatma Gandhi, the Father of our Nation stressed the need for quality rural education and development of women education and urged the leaders and youth to help in promoting it. Senior Freedom fighters and public of Shimoga were first to respond to the call of Mahatma. In 1946 they set up the National education society at Shimoga which is the important place of Malnad Area of Western Ghat Region in the Country which is endowed with rich and enchanting grace of Nature.

The Society, with the zeal dedication of senior leaders of the district like Mr. S.V.Krishna Murthy Rao, former deputy speaker of Loksabha, Mr.H.S.Rudrappa, Former Minister of Karnataka. Mr. P. Murudappa, Mr. R. K. Jayatheerthachar and Mr. S. Narasimha Murthy senior Advocates, Mr. S. R.Nagappa Shrestty, Ex-MLA and a great social worker and others strived hard to build the institution as founders to achieve the aspirations of Mahatma. The society started independently Managed High School in the district during 1946 and constructed its own building with public assistance. With a view to give thrust towards girl's education NES opened the first Girl's High School in the district in 1954 and gradually opened educational institutions in rural areas of the district to cater the needs of rural people.

Many illustrious leaders, statesman, personalities have visited the National education Society and have blessed by appreciating the dedicated service of the society. Among them are Honorable Dr. Rajendra Prasad, former President of India, Philosopher educationist Dr. S. Radha Krishnan, former president of India, Shri Lal Bahadur Shastri, Former Prime Minister of India, Sri Jayachamaraj wodeyar, former Maharaja of Mysore, Sri Vinoba Bhave a great leader of Sarvodaya movement, Acharya Tulsi, the leader of Anavarath Movement are few among them.

Despite number of problems during and after freedom struggle the enthusiasm and commitment of National Education Society never detered towards working for the cause of education. The society started number of professional Colleges in the district. Now it is running 40 educational institutions providing education to more than 15,000 students with 1000 staff force. Starting from giving importance to Primary, Secondary and Pre-University education by opening number of Schools and Junior Colleges, the National Education Society is offering courses with high quality education in Engineering, Law, Commerce, Pharmacy, Applied Science and Home Science through its well established colleges.

Thousands of Alumni of these institutions have made their name and fame earned by obtaining national and international recognitions in their respective fields. It is a matter of great satisfaction to the society in its efforts to do best for imparting good education to students. Good number of students is coming out from its institutions with flying colours obtaining distinction every year.

The Society is managed by an Executive Committee. The directors have taken the development of the Society as a life mission and are continuing the efforts to fulfil the aspirations of its founders. It

has provided all the necessary facilities with adequate infrastructure to students and staff to promote both curricular and co-curricular activities.

The National Education Society observed its Golden Jubilee during 1998, and dedicated a statue to Mr.S.R.Nagappa Shrestty, a man who devoted his life to the development of the society. Further, NES celebrates Diamond Jubilee year during 2022.

For more details, please visit: <http://nes-shimoga.org/about.html>

EXECUTIVE COMMITTEE OF NATIONAL EDUCATION SOCIETY (R)



Sri. A. S. Vishwanatha
President



Sri. T. R. Ashwathanarayana Setty
Vice President



Sri. S. N. Nagaraja
Secretary



Sri. D.R. Amarendra Kireeti
Joint-Secretary



Sri. C. R. Nagaraj
Treasurer



Sri. D. H. Srinivasa Murthy
Director



Sri. N. T. Narayana Rao
Director



Sri. G. S. Narayana Rao
Director



Smt. S. R. Susheelamma
Director



Sri. P. Mylarappa
Director



Dr. P. Narayan
Director



Sri. M. Shankara Rao
Director



Dr. H. V. Subramanya
Director



Smt. Rukmini Vedavyas
Director



Sri. H. C. Shivakumar
Director

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3. ABOUT JNNCE

Jawaharlal Nehru National College of Engineering (JNNCE), is one of the technical institutions of Karnataka, providing excellent technical education and training to students from all parts of India. Established by NES in 1980, JNNCE is approved by Government of Karnataka and AICTE; affiliated to Visvesvaraya Technological University, Belgaum and accredited by NAAC.

A preferred destination of students seeking technical education, the institution offers BE degree in 7 branches, 3 PG Courses, namely, M. Tech., MCA and MBA, besides M.Sc. (Engg.) and Ph.D. in nine disciplines. Spread over a sprawling campus of 39.4 acres, the institution is reputed for its high-caliber faculty, excellent infrastructure, academic environment and placement. Around 16000 graduates and post-graduates have so far passed out from this College and have been making significant contributions in academic institutions, industry R & D organisations and Government Departments in India and abroad.

JNNCE is also a University recognized research centre in Civil Engineering, Mechanical Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering , MBA, Physics, Chemistry and Mathematics leading to the award of M.Sc. (Engg.) and Ph.D. So, for 46 candidates have been awarded Ph.D. from our research centres.

4. GOVERNING COUNCIL OF JNNCE

1.	Sri. A S Vishwanatha President, NES, Shivamogga	CHAIRMAN	
2.	Sri. T R Ashwathanarayana Setty Vice President, NES, Shivamogga	MEMBER	
3.	Sri. S N Nagaraja Secretary, NES, Shivamogga	MEMBER	
4.	Sri. D R Amarendra Kireeti Joint Secretary, NES, Shivamogga	MEMBER	
5.	Sri. C R Nagaraj Treasurer, NES, Shivamogga	MEMBER	
6.	Sri. M Shankar Rao Director, NES, Shivamogga	MEMBER	
7.	Dr. H V Subramanya Director, NES, Shivamogga	MEMBER	Industrialist
8.	Smt. Rukmini Vedavyasa Director, NES, Shivamogga	MEMBER	
9.	Sri. Girimaji R Ravindra Life Member, NES	MEMBER	
10.	Prof. T S Hoovaiah Gowda Registrar, NES, Shivamogga	Ex-Officio Member	
11.	Dr. R V Praveen Gowda PRINCIPAL, Oxford College of Engg, Blore	MEMBER	UNIVERSITY NOMINEE
12.	Regional Director, South-Western Regional AICTE Office	MEMBER	AICTE NOMINEE
13.	Directorate of Technical Education, Bangalore	MEMBER	GOVT NOMINEE
14.	Dr. Manjunatha P Prof. ECE. Dept. & Dean Academics, J.N.N.C.E, Shivamogga	MEMBER	STAFF NOMINEE
15.	Smt. Anuradha C K Asst. Prof. MBA Dept., J.N.N.C.E, Smg	MEMBER	
16.	Principal, J.N.N.C.E, Shivamogga	MEMBER SECRETARY	

5. INSTITUTE PROFILE

JNNCE is a flagship Institute of the 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 groomed by Sri Girimaji N Rajagopal, Sri D.R.Ratnakar among others.

All the founders of NES by their vision, hard work and contribution have brought JNNCE to the level it is today, which is being acknowledged and applauded by all. With the blessings of all, JNNCE is marching towards becoming one of the best institutions imparting education in engineering, management and computer application to needy students and creating citizens of tomorrow.

In this direction, over the last couple of years, many such developments and improvements have been achieved, with successful milestones. During July 2016, an initiative “Transformation for Excellence 2.0” for making JNNCE one of the top engineering, research, innovation and enterprising institutes was started. During this journey, the focus was on improving the quality of education, research & innovation, infrastructure development, employability of students & few more.

Jawaharlal Nehru New College of Engineering (JNNCE)[Formerly, Jawaharlal Nehru National College of Engineering (JNNCE)] was established in the year 1980 by National Education Society (NES). JNNCE is imparting education in Technology and Management since 41 years. JNNCE is running B.E (Civil, Mechanical, EEE, ECE,CSE, ISE, ETE & AI & ML), M.Tech (Transportation Engineering and Management, Computer Science), 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 and accredited by NBA-New Delhi and NAAC. For more details about our college, please log on to our website: www.jnnce.ac.in

The lush green sprawling campus of about 39.4 acres caters to the needs of nearly 3750 students and 450 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 nearly 47 Ph.Ds as well as 133 with PG qualifications, amongst whom 57 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 2020-21 academic year has been yet another fruitful year for the institute, as manifested in the above accomplishments and new developments on all fronts, providing further impetus to its urge for excellence in the ensuing academic year 2021-22. NES Management, JNNCE Staff, Students, Alumni are constantly working towards achieving this goal.

Glimpses of Major Achievements of the Year 2020-21

❖ Ranking/Rating:

There is remarkable improvement in overall ranking in survey done leading magazines in 2020, as mentioned below:

1. Ranked 48th in “India Today” survey, 10th Rank in Karnataka
2. Ranked 50th among Top-100 Engineering Colleges of South India in Survey by “The Week” magazine
3. Ranked 80th in India among Top-100 Engineering Colleges of India in 2020 as per “The Outlook” & 17th position in Karnataka

❖ Academics:

Institution has so far secured over 100 ranks in university exams and during 2020-21 we bagged 3 ranks in VTU exam. We have introduced a mentoring process for potential rank holders as well other students to help them perform better in their examinations. We have started rewarding students who excel in their studies, cultural, sports and research & innovation, by awarding cash prizes, partial waiver of tuition fees and merit certificates. We organize Graduation Day which is unique where in all students become eligible for Graduation (Graduands).

❖ Research and Innovation:

The 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 250 papers in national and international seminars, conferences and journals in the last five years. Funded Research projects worth more than Rs. 42.65 Lakhs have been carried out in the institute in this year. The institution has organized three International Conferences on different academic and intellectual themes successfully, attracting resource persons, speakers and delegates from academics and industry from all over India; also brought out Conference Proceedings containing valuable information and insights. To

motivate innovation-based research among faculty and students, JNNCE Research and Innovation Centre in JNNCE (JNNRIC) started in 2017-18 has been functioning. So far, 46 candidates obtained Ph.D. degrees from JNNCE under Research Centre of VTU.

To encourage research and publication, the institute had launched its own online bi-annual research journal, titled “JNNCE Journal of Engineering & Management” (JJEM) in October 2017; four issues, containing research papers from scholars, both from India and abroad, have been already released and the tenth issue is now under process.

The College has also continued to publish its bi-annual, in-house newsletter titled “JNNCE Beacon” to showcase the events and developments on the campus.

Many projects catering to the need of the society are being developed; few of them are:

- Covid face mask detection using CNN model
- Portable Graphene-Oxide, Vetiver Grass And Uv Light Based Multistage Filtration Unit For Water Purification
- Automated Wheel Chair Navigation And Health Monitoring Through Open-Computer Vision Using Raspberry
- Smart Milk Vending Machine Using lot
- Phytoremediation of waste water from casting industry using native plants
- Marine Robot using RADAR system(River cleaning ROBOT)
- Smart Glass For Blind People
- High Strength 3D Printing for Sand Casting
- Development of a readymade pothole mix for distressed pavements
- Treatment and reuse of automobile service station wastewater by using natural coagulants
- Natural bio adsorbents and coagulants for removal for heavy metals from contaminated water

JNNCE has received funding from 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. During 2020-21, fifteen projects have been funded with 2.5 lakhs each.

JNNCE has received more than 42 Lakhs funding from funding agencies like Department of Science & Technology, Govt. of India, AICTE, Govt. of Karnataka.

We are also 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:

- National Highways Authority of India (NHAI)
- Avijeet Agencies (P) Ltd.
- Govt. Tool Room and Training Center, Shivamogga
- Global Infotech Autodesk Academic Partner
- University of Agricultural and Horticultural Sciences, Navile, Shivamogga

❖ **Placement:**

In addition to education and research, we are focusing to provide skill-based training to increase their employability. To prepare students, we are providing soft skill training, exposed to emerging technologies by way of technical talks by Industry experts, hands-on workshops in emerging and niche technology areas like Artificial Intelligence, Machine Learning, IoT, Data Science, 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.

More than 525 students from 2020-21 batch have got job offers during campus placement in companies like TCS, Evive Health, Crimson Logic, Global Edge, Colors Software, SOCIETE GENERALE, ETHNUS etc. Highest salary offered during 2020-21 is Rs.8.00 Lakhs per annum and average salary is Rs.3.5 lakhs per annum.

❖ **Students Chapters of Professional Bodies:**

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

❖ **Quality Improvement in Education:**

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.
- Open textbook tests are conducted to ensure that students study throughout the semester and not only during the exam time.
- Google Class rooms are being used, where the notes, ppts and lecture videos are uploaded, so that it would help students to do better.
- Encouraging students to use web resources offered by VTU and NPTEL by IIT's

❖ **Conferences, Workshops, Symposiums organized:**

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 76 technical events; the faculty has attended about 926 Faculty Development Programs / Seminars / Webinars and around 8 conferences and 75 resource persons 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 400 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.

❖ **Library & Information System:**

The institute library, housed in an exclusive and spacious block, has a collection of 1,23,657 books relating to all branches of Engineering and Management, digital library, subscribes to 53 National & 9 International Journals with more than 2500 e-journals through VTU Consortium and DELNET. The Library has been computerized with e-Lib iNext Web based software. Also, institute is identified as NPTL local chapter.

❖ **Alumni:**

More than 17,000 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 registered alumni association which is active and supportive that meets regularly during the month of May every year 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 Association, 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.

Year of Estd.:	1980	Name of Principal:	Dr. Manjunatha P
		Built Area:	53097.59 sqm
No. of UG Programmes:	07	Land Area	143056.38 square meters (Excluding MBA – 4 Acres)
No. of PG Programmes:	04	Carpet Area:	45132.95 sqm

UG Programmes			PG Programmes		
Course	Year	Intake	Course	Year	Intake
Civil Engineering	1980	120	MBA	1996	120
Mechanical Engineering	1980	90	MCA	1995	45
Electrical & Electronics Engineering	1980	60	M.Tech. in Computer Science and Engineering	1999	25
Electronics and Communication Engineering	1980	120	M.Tech. in Transportation Engineering & Management	2010	18
Computer Science and Engineering	1991	120			
Information Science and Engineering	1999	120			
Electronics & Telecommunication Engineering	2000	60			

Research Centre		Total Students						
Departments	Year	Year	UG			PG		
			Total	Boys	Girls	Total	Boys	Girls
Civil Engineering	2002							
Mechanical Engineering	2000	1 st year (2020-21)	563	291	272	186	69	117
Computer Science and Engineering	2003	2 nd year	596	317	279	180	77	103
Electronics and Communication Engineering	2006	3 rd year	795	456	339	60	21	39
Electrical and Electronics Engineering	2002	4 th year	819	443	376	-	-	-
MBA	2006	Total	2773	1507	1266	426	167	259
Chemistry	2012							
Physics	2016							
Mathematics	2017							

Faculty Cadre as on July 2021

Course	Professor	Assoc. Professor	Asst. Professor	Lecturer	Total
Principal	1	-	-	-	01
Civil Engineering	-	2	20	-	22
Mechanical Engineering	5	3	13	1	22
Electrical & Electronics Engineering	3	1	8	-	12
Electronics and Communication Engineering	1	1	18	-	20
Computer Science and Engineering	3	4	19	-	26
Information Science and Engineering	2	3	16	-	21
Electronics and Telecommunication Engineering	1	2	8	-	11
MBA	1	-	10	-	11
MCA	1	3	6	-	10
Physics	1	1	2	-	4
Chemistry	1	1	2	-	4
Mathematics	1	1	6	-	8
Physical Education	-	-	1	-	1
Librarian	-	-	1	-	1
Placement Officer	-	-	1	-	1
Humanities	-	-	1+1*	-	2
Total	21	22	132+1*	1	177

*Guest Faculty

Faculty Qualification as on July 2021

Course	Ph.D.	Ph.D. pursuing	PG	Total
Principal	1	-	-	1
Civil Engineering	2	8	12	22
Mechanical Engineering	9	3	10	22
Electrical & Electronics Engineering	3	3	6	12
Electronics and Communication Engineering	2	14	4	20
Computer Science and Engineering	7	6	13	26
Information Science and Engineering	2	9	10	21
Electronics & Telecommunication Engineering	1	5	5	11
MBA	8	0	3	11
MCA	2	4	4	10
Physics	3	0	1	4
Chemistry	2	1	1	4
Mathematics	3	2	3	8
Physical Education	0	0	1	1
Librarian	0	0	1	1
Placement Officer	0	0	1	1
Humanities	0	0	2	2
Total	45	55	77	177

Staff details as on July 2021

Laboratory Staff

Designation	Number
Foreman	05
Instructor	38
Supporting Technical Staff	13
Supporting Non-Technical Staff	18

Principal's Office Staff

Designation	Number
Superintendent	1
Project manager	1
FDA	7
SDA	7
Supporting Staff	45

Library Staff

Designation	Number
Asst. Librarian	2
Supporting Staff	7

Sports staff

Designation	Number
Sports Assistant	1
Supporting Staff	3

Hostel Staff

Designation	Number
Supervisor	4
Supporting Staff	43

Training & Placement Cell

Designation	Number
Placement Assistant	1
Supporting Staff	1

Transportation Staff

Designation	Number
FDA	1
Driver/Conductor	46

List of HODs as on July 2021

Name	Department
Dr. Karthika B S	Civil Engineering
Dr. E Basavaraj	Mechanical Engineering
Dr. A H Thejaswi	Electrical & Electronics Engineering
Dr. S V Sathyanarayana	Electronics and Communication Engineering
Dr. Poornima K M	Computer Science and Engineering
Dr. R Sanjeev Kunte	Information Science and Engineering
Dr. M B Ushadevi	Electronics & Telecommunication Engineering
Dr. C. Srikant	MBA
Dr. S Prabhudeva	MCA
Dr. B. N. Ananda Ram	Physics
Dr. M. H. Moinuddin Khan	Chemistry
Dr. Nirmal T	Mathematics
Mr. Chetan A. V.	Physical Education Director
Mr. Chandrakantha R. Bhat	Librarian
Mr. G. Suresh	Placement Officer

Library Details as on July 2022

1.	Carpet area	2049.48Sq.m
2.	Software	e-Lib iNext Web based
3.	No. of volumes	1,23,657
4.	No. of titles	15766
5.	National Journals	53
6.	International Journals	09
7.	Member of VTU Consortium (Online Journals)	2500+
8.	Member of DELNET	On line journals, E-Books and Inter library loan
9.	NPTL Services	On line course materials
10.	General Magazines	12
11.	Website	www.libinfo.jnnce.ac.in
12.	Institute's on line journal	JNNCE Journal of Engineering & Management (JJEM)

6. STRATEGY–TRANSFORMATION FOR EXCELLENCE 2.0

“Transformation for Excellence”

An initiative for making JNNCE as one of the top engineering, research, innovation and enterprising institutes!

- i. Enhancing the academic atmosphere by emphasizing excellence in teaching, research, innovation
- ii. Engage the stake holders to explore strengths & opportunities across the institute
- iii. Identifying the problems & developing solutions, automating routine works to optimize the resources
- iv. Increase the competence level of Faculty and staff
- v. Making the work environment as fun to work
- vi. Collaboration for joint research and exchange programs
- vii. Accreditation of all depts and outbound education system
- viii. Preparing and going for Autonomous status

1. Governance

- a. Identifying the problems & developing solutions, automating routine works to optimize the resources
- b. Fostering a more transparent, responsive, motivated and agile administrative machinery
- c. Ensuring meticulous planning, budgeting, costing, accounting, internal control and audit processes in all administrative operations
- d. Increased monitoring of revenues, expenditure, investments and human resources
- e. Launching of a more object-oriented HR Policies/Service Rules
- f. Systematic documentation, filing, and operations in Office Administration
- g. Better and more frequent communication with all stakeholders (management, employees, students, parents, etc)
- h. Enhancing visibility through more reaching-out, publicity & promotion, press & public relations, publications, extension & social & community participation

2. Education Quality

Following are planned to increase the teaching quality:

- Faculty Development workshops on various topics in all depts. In coming months
- Identifying and developing Road map for topics based on current & future need
- Mentoring by inside and outside academic experts, Mentoring by industry experts
- Develop innovative, research groups working on emerging topics, faculty interest, and research infrastructure to increase externally funded projects
- Attending & organizing Conferences, Summits, Trainings by Faculty
- Organizing Faculty development programs for others
- Taking up as reviewers and chairing sessions in Journal & Conferences
- Arranging in-house workshops & Motivational programs
- Making use of Free Online resources
- Inviting Industry experts during weekend for teaching (Alumni, industry persons with passion for teaching, parents who can help us)

Metrics for measuring Education Quality:

- **To increase the rank holders in VTU**
 - Handholding by right Faculty & mentoring those students
 - Connecting to experts, earlier rank holders in JNNCE or outside
- **To increase the no: of distinctions in VTU**
 - Identifying probable students based on past data in University exams
 - Handholding them by way of coaching, guiding them with all possible facilities by Dept Faculty
- **To help below average students to do well in VTU**
 - Helping them to identify problems & assisting them to cope up by Faculty mentors in depts
 - Motivating them so that they can score well

3. Infrastructure Development

- Developing and maintaining state-of-the-art infrastructure in the campus – for administration, teaching-learning, research, consultancy, campus-living, and welfare of all the constituents
- Developing transparent and responsible system for identifying and indenting departmental needs, for non-recurring & capital expenditure budgeting, purchase/acquisition, maintenance and disposal of capital assets
- Ensuring optimum utilization of classrooms, laboratories, workshops, equipments, vehicles, open spaces, play-grounds, parking space etc and checking wasteful expenditure, idle capacities, duplication, stock-filing etc
- Developing and maintaining proper landscaping, effluent-treatment, safety & security, vigilance & surveillance on the campus

4. Research & Innovation

Following is planned in the coming months:

- Identifying the areas of research based on strength of Faculty
- Create an environment for high-impact, cutting-edge research
- Identifying the current work to apply for patents
- Establishing the collaboration with DRDO, ISRO, Public Sector Companies, MNCs
- Applying for Contract Research work partnering with corporate
- Develop infrastructure to enhance research capacity
- Engage students on issues that shape our society

5. Funding, Grants & Sponsorship

To generate financial support for research, innovation and other, following are planned in coming months:

- Setting up the Technology Business Incubation Centre with support of funding from Govt of India, Govt of Karnataka, others

- Creating platform for setting up companies where in expertise of Faculty, students are made use of
- Invite companies to set up Technology Development Centres
- Setting up Engg. Teacher training cell to train Faculty across India
- Commercializing of research ideas, patents, technology transfer
- Providing Industrial Consultancy, Contract Research work
- Finishing school with optimal use current facilities (NSDC, Govt. support, PPP model)

6. Industry Collaboration

Following is the action plan for industry collaboration:

- Inviting industries for setting up competency centres in emerging technology areas
- To identify the various avenues through which we can interact with local firms, businesses and other intermediaries in relation to research and innovative activity.
- Contacting companies and getting consultancy, research work
- Having industry experts in college committees and advisory board
- Guest Lecture by experienced person from industry
- Organizing workshop/seminar periodically and invite the corporate people to deliver lecture and interact
- Industrial visit, Expos, Exhibitions for students, Faculty
- Panel Discussions, CEO Interactions

7. Placement

Following is the action plan for improving the placement:

- Establishing contacts with more companies for placement using networking like through parents, Alumni's and other means
- Establishing center for preparing students to face placement test and interviews involving industry professionals, Alumni's, professionals
- Attracting core companies for placement

8. Sports, Cultural Activities and Campus Living

Following is the action plan in coming months:

- Encouraging students to participate in various sports event conducted by VTU, International level
- Instituting awards for those who win prizes at University, State, National and International level
- Improving the infrastructure for sports and games
- Organizing family meets, cultural functions and team building games
- Improving the hostel facilities, food quality

9. NES and Society

Following is the way to assist NES institutions:

- a. Assisting other NES Institution in areas of need to improve
- b. Enabling NES Institutions to make use of available facilities from Govt, Industries
- c. Assisting to arrange motivational, awareness programs to other NES Institutions
- d. Assisting to build centre for preparing competitive exams



...footprints of a
glorious journey
2020-21

7. GOVERNANCE

The institute is continuously striving towards the implementation of Transformation for Excellence 2.0. In this direction, the institute machinery is decentralized its working by following a hierarchical delegation of task management. Following are the details of the various committees .

1. JNNCE Governing Council
2. Council of Heads of the department
3. Internal Quality Assurance Cell – IQAC
4. Statutory Committees:
 - a. Academic Monitoring Committee
 - b. Anti-ragging Committee
 - c. Anti-sexual harassment committee
 - d. Grievance Readdress Committee
 - e. Student Counseling Cell
 - f. SC/ST Cell
 - g. Universal Human Value Cell
5. Non Statutory Committee
 - a. Admission Committee
 - b. Examination Committee
 - c. Mentor Scheme Coordination Committee
 - d. NBA Core Committee
 - e. Placement & Training Committee
 - f. Research Committee
 - g. Industry Institute Interaction Committee
 - h. JJEM Editorial Committee
 - i. Purchase Committee
 - j. IT & Monitoring Committee
 - k. Delivery & Check Report Committee
 - l. CCTV Committee
 - m. Library Committee
 - n. Sports Committee.
 - o. Cultural Activity Committee

- p. JNNCE News Letter Committee
- q. Alumni Association
- r. Meritorious Award Committee
- s. AICTE /UGC/VTU/DTE Correspondence Committee
- t. NBA/NAAC/VTU visit coordination Committee
- **38th Meeting of Governing Council** of JNNCE was held on 14.7.2021 at 11.00 A.M in the Administrative Building and the agenda points along with the resolutions are published in the institution website
- **37th Meeting of Governing Council** of JNNCE was held on 19.8.2020 at 11.00 A.M in the Administrative Building and the agenda points along with the resolutions are published in the institution website
- **IQAC MEETINGS**

IQAC meeting is scheduled periodically, with the Principal presiding over the meetings and all the Members taking part. During 2020-21, following are the details of IQAC meetings organized:

Meeting No.	Date	Main Agenda points
30	27.02.2020	Action taken report-2019, Professional Clubs G. AICTE activity points -Implementation Guidelines, Department forum activities, Student performance -improvement strategies
31	22.06.2020	Refresher Classes before ensuing Even Sem Exams, Quality Initiatives & Planning, Online Education – Requirements & Preparedness, Examination Reforms – Initiative by AICTE , Webinars / Online FDPs : Guidelines
32	28.10.2020	Quality Improvement Areas: (a) Result Analysis (b) Placement Analysis (c) Mentor Analysis (d) OBE Process (e) Project Work(f) Publication Standard Analytics (g) Admission Analysis , Updates
33	25.02.2021	Review of previous meeting proceedings and action taken, Quality Improvement Areas, Updates
34	28.05.2021	Progress of online teaching, Planning and organizing Student activities, Review of AQAR report of 2019-20, Result Analysis of previous semester

IQAC coordinator convenes and moderates the meeting.

- Meeting notice & agenda were circulated in advance and Minutes of the Meetings are drawn and circulated among all Members and HoDs for their information and compliance with the resolutions;
- Review of previous meetings and action taken, updates on activities and developments are shared in the meetings;

- Various Quality initiatives topics were placed and discussed.
- Recommendations were circulated to the concerned stake holders and published in the institution website for necessary actions and follow up.

❖ **HODs MEETINGS**

- More than 30 scheduled and unscheduled meetings of HODs are conducted during the period, with the Principal presiding over the meetings and all the HODs taking part;
 - Meeting notice & agenda were circulated in advance and Minutes of the Meetings are drawn and circulated among all HODs for their information and compliance with the resolutions;
 - Updates on activities and developments are shared in the meetings;
 - Both general and specific subjects pertaining to academics, administration, research & project funding, NAAC & NBA Accreditation, programmes & events, publications, departmental budgets, Training & placement, hostel, Campus infrastructure development & maintenance, examination & results, student & staff welfare measures, annual day functions, VIP Visits, VTU & JNNCE Academic Calendar, Staff Vacation, Circulars from VTU, AICTE, DTE & other regulatory bodies, LIC Visits, NES Management directives & decisions, etc are discussed/communicated in these meetings.

❖ **STATUTARY COMMITTEE MEETINGS DETAILS**

Sl. No.	Committee	Meeting Date	Main Agenda Points
1.	Academic Monitoring Committee	02.12.2020, 26.12.2020	Calendar of events, Planning Department Academic audit
2.	Anti-ragging Committee	11.12.2020	Review of status, Formation of flying anti-ragging squad(Day time & Hostel visits flying night), Guidelines
3.	Anti-Sexual Harassment Committee	10.03.2021	Review of status, guidelines and reporting
4.	Grievance redressal Committee	08.05.2021	Review of status, guidelines and reporting of the grievances addressed regarding infrastructure
5.	Student Counseling Cell	23.02.2021, 10.03.2021	Status review, Action taken report of the student counseling cases if any, future directions
6.	SC/ST Cell	24.05.2021, 23.7.2021	Status review, Action taken report of the student related issues, scholarships available, any other issues

8. EDUCATION QUALITY

❖ ADMISSION:

2020-21 Admission Details of 1st year B.E

Sl No.	Branch	Intake	CET Admitted	SNQ	PMSSS	CQ Admitted	MQ Admitted	Total Admitted	vacancy
1.	Civil Engineering	126	74	06	01	03	26	110	17
2.	Mechanical Engineering	126	28	04	-	01	13	46	80
3.	Electronics & Communication Engineering	126	56	06	-	11	16	89	37
4.	Telecommunication Engineering	63	16	03	-	0	17	36	27
5.	Electrical & Electronics Engineering	63	32	03	-	0	17	52	11
6.	Computer Science & Engineering	126	53	06	01	34	31	125	01
7.	Information Science & Engineering	126	54	06	-	19	26	105	21
	Total	756	313	34	02	68	146	563	194

Note: PMSSS-over and above admission

2020-21 Admission Details of

1st year M.Tech, MBA & MCA

Sl. No.	Branch	Total Intake	Total GQ & MQ Admitted	Total Vacancy
1.	M.Tech-CSE	25	08	17
2.	M.Tech-Trans	18	13	05
3.	MBA	120	120	0
4.	MCA	45	45	0
	TOTAL	208	186	22

- Inauguration of First Semester B.E. Programs (2020-21 Batch) 14.12.2020 through online mode.
- Institute Induction Program Cell (IIPC) organized **First year Induction Program** from was arranged on 14.12.2020-19.12.2020 (I Phase) and 19.5.2021 to 22.5.2021(II Phase).Some important sessions:
 - UHV-Environment - Dr.L.K. Shreepathy
 - Staying focused – Dr.Sandhya Kaveri

- Student Life and Extra Curricular Habits- Dr.Shubratha S
- Road Safety & Precautions – Dr. Fakruddin
- Yoga – Mr. Anil Shettar and Team
- Tree Plantation – NSS Team
- Health tips – Dr. P. Narayan
- Student life & Literature-Dr.Ravisha N S
- Pandemic and Student Life - Dr. S T.Aravind
- Stress Management & Human Values – Dr. Vikrama & Ms. Roopa
- On Line Class-Do’s and Don’ts - Dr. Manjunatha, Principal, JNNCE
- Multi Lingual Skill - Dr.P.S.Subhadra
- Innovation - Dr.Raghavendra Kanakagiri, Asst.Professor, IIT ,Tirupathi
- Developing Entrepreneurship - Mr.Ankith Divekar, M.S CGM, Pearlite Liners, Shimoga
- Indian Constitution and Professional Ethics - Dr.G.R.Jagadeesha, Principal, National college of Law
- Self Confidence and Discipline
- Literary Activities
- IPR
- Alumni Interaction
- Library Activity
- Cultural and Sports Activity
- Time Management
- Entrepreneurship
- NSS Awareness
- Anti-Ragging Awareness
- **Inauguration & Orientation Program for PG Programs 2020-21 batch (M.Tech., MCA and MBA)** was arranged on 18th Jan. 2021. Around 175 PG newly admitted students attended the program. Executive Committee members of National Education Society were the Guests of honor.
- **Parents Meet:** All the departments organized parents meet on during Aug.2021. Many parents attended the meet and interacted with the teachers. The teachers informed about the performance of the wards. The following were the overall opinion given the parents:
 - Good Feedback about Teaching Learning Process
 - To arrange coaching classes for higher learning
 - Some issues in Transportation Facility
 - To arrange more placement training
 - To arrange training on Communication skills to rural students
 - To explore placement opportunities in core companies

Ranks Secured & Results

Details of University Ranks Secured during 2019-20 [Announced in 2020-21]

Ms. Apoorva G.	B.E., Department ofCS & E	III Rank
Mr. Chiranjeevi B P	M.Tech., Transportation Engineering & Management	I Rank
Ms. Ashika Jain	MBA	IV Rank

Statement showing the statistics of Results pertaining to VII Sem UG in Jan. 2021 Exams

Branch	Total Appeared	F.C.D.	F.C.	S.C.	Total Pass	% age
Civil	147	115	7	0	122	82.99
Mech.,	140	103	3	0	106	75.71
E & E	74	25	33	0	58	78.38
E & C	157	103	14	0	117	74.52
TC & E	49	37	4	0	41	83.67
CS & E	148	121	2	0	123	83.11
I S & E	104	76	7	0	83	79.81
Total	819	580	70	0	650	79

Statement showing the statistics of Results pertaining to VIII Sem UG in July/Aug. Exams

Branch	Total Appeared	F.C.D.	F.C.	S.C.	Total Pass	% age
Civil	133	128	0	0	128	96.24
Mech.,	120	115	0	0	115	95.83
E & E	65	62	0	0	62	95.38
E & C	138	128	0	0	128	92.75
TC & E	45	44	0	0	44	97.78
CS & E	136	134	0	0	134	98.53
I S & E	93	91	0	0	91	97.85
Total	730	702	0	0	700	96.16

**Statement showing the statistics of Results pertaining to Statement showing the statistics of
Results pertaining to PG. I to V Sem Jan'2021 Exam**

P.G. Course	Semester	Total Appeared	F.C.D.	F.C.	S.C.	Total Pass	% age
MBA	I Sem	119	30	60	13	103	87
	III Sem	118	0	30	66	96	81
MCA	I Sem	45	30	15	0	45	100
	III Sem	28	22	0	0	22	79
	V Sem	60	50	0	0	50	83
M.Tech., (CS&E)	I Sem	8	8	0	0	8	100
	III Sem	12	12	0	0	12	100
M.Tech., (CTM)	I Sem	13	13	0	0	13	100
	III Sem	17	17	0	0	17	100
M.Tech. (Design)	III Sem	2	2	0	0	2	100
M.Tech. (DECS)	III Sem	4	3	0	0	3	75
M.Tech. (EPE)	III Sem	2	2	0	0	2	100
M.Tech. (CIM)	III Sem	1	1	0	0	1	100

Statement showing the statistics of Results pertaining to PG. II to VI Sem Aug'2021Exam

P.G. Course	Semester	Total Appeared	F.C.D.	F.C.	S.C.	Total Pass	% age
MBA	II Sem	119	28	60	31	119	100
	IV Sem	118	33	41	18	92	77.97
MCA	II Sem	45	28	17	0	45	100
	IV Sem	28	22	0	0	22	79
	V Sem	60	60	0	0	60	100
M.Tech., (CS&E)	II Sem	8	8	0	0	8	100
	IV Sem	12	12	0	0	12	100
M.Tech., (CTM)	II Sem	13	13	0	0	13	100
	IV Sem	17	17	0	0	17	100
M.Tech. (Design)	IV Sem	2	2	0	0	2	100
M.Tech. (DECS)	IV Sem	4	3	0	0	3	75
M.Tech. (EPE)	IV Sem	1	1	0	0	1	100
M.Tech. (CIM)	IV Sem	2	2	0	0	2	100

❖ EDUCATION

❖ Steps taken for quality improvement in Education:

1. In order to encourage academic excellence, scholarships at college level are offered to students by NES Management.
 2. Mentor Scheme: For every 20 students a teacher will oversee the academic performance and send reports to parents regarding test / exam / attendance performance.
 3. Additional books are provided to the class toppers at the library on recommendation from respective Department HOD.
 4. Book bank scheme is successfully implemented in Library.
 5. Academically weak students are identified and special tutorial classes are conducted.
 6. JNNCE has been identified as Remote centre of IIT, Bombay / IIT Khargpur for a conduction of Faculty Development Programme for Engineering College / Polytechnic Faculty
 7. JNNCE has been identified as a Nodal centre for the project E-Yantra – A Robot based Project initiated by IIT, Bombay.
 8. DST-SERB NewGen IEDC provides financial assistance for the innovative projects carried out by students upto 2.5 Lakhs
 9. JNNCE Entrepreneurship Development Cell has been established to motivate students for self employment and Entrepreneurship Development.
- **Remedial Classes:** In order to help out the detained first year and second year students to clear the failed subjects, remedial classes were arranged.
 - **Calendar of Events of Even Semester** was finalized by Academic Monitoring Committee and circulated to all departments.

❖ Short term Training programmes, Seminars & Workshops conducted during 2020-21 Faculty Development Programmes:

- FDP was conducted on “Mobile Application Development with Kotlin” was organized by Department of Computer Science & Engineering from 14/05/2021 to 16/05/2021.
- Department of Management Studies, JNNCE had organized one day Seminar on “Implementation of National Education Policy (NEP) 2020” for JNNCE Faculties on 16th March 2021.
- The department of Electronics and Communication Engineering organized FDP on “Building Smart Things by Leveraging IoT Technology” Sponsored by AICTE – ATAL from 04/01/2021 to 08/01/2021.
- AICTE Sponsored STTP was conducted on “AI and other Advances in Computational methods for Genomics” was organized by Department of Computer Science & Engineering from 14/12/2020 to 19/12/2020

- AICTE Sponsored STTP was conducted on “Research Avenues in Genomics” was organized by Department of Computer Science & Engineering from 23/11/2020 to 28/11/2020.
- Department of Management Studies JNNCE, Shimoga has organized One-Week Online FDP on “How to Crack VTU-PhD Course Work in Research Methodology and IPR-16PHDRM” on 02-06, November 2020.
- Department of Electrical & Electronics Engineering organized AICTE Sponsored ATAL FDP on “ Electric Vehicles” during 2nd to 6th November 2020
- FDP on Virtual Labs in association with SOLVE NITK, Surathkal during 5.10.2020 to 8.10.2020
- Department of Electrical & Electronics Engineering organized AICTE Sponsored ATAL FDP on “Energy storage and its Applications” during 5th to 9th October 2020
- FDP on “Foundations Of Quantum Computing” was organized by Department of Computer Science & Engineering on 05/10/2020 to 09/10/2020
- ATAL FDP on “Blue Ocean Strategy” sponsored by was organized by Department of Mechanical Engineering from 21-09-2020 to 25-09-2020.
- One week online National level STTP on “Mathematical Modeling and Numerical Techniques in Fluid Mechanics” was organized by the Department of Mathematics and Department of Mechanical Engineering, JNNCE, from 24th to 28th August 2020.
- One week FDP on “Blockchain Technology & its Applications” organised by ISE Dept. during 17/08/2020 to 21/08/2020.
- The department of Electronics and Communication Engineering organized FDP on “Machine Learning and Data Analytics use MATLAB” from 17/08/2020 to 22/08/2020.
- One week online National level FDP on “The Role of Discrete Mathematics, Combinatorics and Graph theory in science and technology” was organized by the Department of Mathematics during 10th to 14th August 2020.
- FDP on “Industry 4.0 and Additive manufacturing” was organized by Department of Mechanical Engineering from 03-08-2020 to 07-08-2020.

❖ **LEARNING & DEVELOPMENT**

❖ **Student Enrichment Programmes:**

- Department of Information Science & Engineering organized Workshop on “Database connectivity using Java Servlets and JSP” during 15-07-2021 to 15-07-2021.
- STTP on “ ARM MICROCONTROLLER” was organized by Computer Science Department 11/06/2021 to 14/06/2021
- Department of Management Studies organised Special Guest Lecture Series on “Stay Focused for Happy Learning” 15-16 February 2021.
- Department of Management Studies organised Special workshop on “Gamification - Simulation Based Learning” on February 15-16, 2021.
- Two weeks skill development programme on C, Arduino and Node MCU Microcontroller was organized by ETE, E & C and EEE departments from 27.8.2021 to 9.10.2021.

- Department of Management Studies organised Special workshop on “Entrepreneurship Boot Camp” on February 12-14, 2021.
- Invited Talk On “The great Mathematician Srinivasa Ramanujan and his contributions” was organized by the Department of Mathematics, JNNCE, held on 29th December 2020 on the occasion of National Mathematics Day.
- Free Live 3 Day Workshop on “Full stack web development” was organized by Computer Science Department from 09/11/2020 to 11/11/2020
- The department of Electronics and Communication Engineering conducted an SDP entitled “Hack Your Mind Using IoT” from 21/08/2020 to 29/08/2020.
- SDP Internship Training was organized by Computer Science Department on “Demystification of Python for structured and semi-structured data” from 03/08/2020 to 31/08/2020
- Department of Information Science & Engineering organized Student Development Program on “Machine Learning Internship” during 1-08-2020 to 31-08-2020

❖ Webinars Conducted

Mathematical Modeling of COVID19 cases in India to Assist in Supply Chain Management	Dr. G K Patra, CSIR-4PI, Bangalore	ECE	19.06.2021
Computing trends and top supercomputers	Dr. Divya M G, CDAC, Bangalore	ECE	16.06.2021
Security and Privacy Concerns of Vehicular and Flying Adhoc Network	Dr. G K Patra, CSIR-4PI, Bangalore	ECE	05.06.2021
Computers, Ethics & Human Values	Dr. Jagadeesha S N, Former Professor, JNNCE, Shivamogga	MCA	29.05.2021
Oracle ERP	Mr. Raghavendra D R	ISE	31.12.2020
IP for Next-Generation Technologies 5G & IoTs	Mr. Harish Chowdhary	ISE	12.12.2020
CV Writing and Profile Building	Mr. Nitin Ravi	ISE	28.11.2020
Internet of Things- Fundamentals and Applications	Mr. Benak Patel M P	ISE	23.10.2020
Fundamentals and Principles of Digital Communication Systems	Dr. Shreedhar A Joshi, Professor and Dean (MIS), SDM college of Engineering, Dharwad	ECE	09.08.2020
A National level webinar on "Big Data Processing using Apache Spark"	Mr. Basanth R	ISE	08.08.2020
Application Layer Protocols for IoT	Dr. Dilip Kumar S M	ISE	04.08.2020
LSTM algorithms in deep learning stock prediction application	Mr. Kamlesh S, Project Engineer, PANTECH Solutions	ECE	03.08.2020

9. INFRASTRUCTURE DEVELOPMENT

- The total expenditure during the year 2020-21 incurred towards construction of building, purchase of new equipments, furniture, fixtures and maintenance etc. is Rs.628.88 Lakhs as detailed below:

Item of expenditure	Amount (INR in Lakhs)
Building	1.83
Computer / Peripherals	65.50
Furniture	0.96
Lab Equipments	2.19
Library Books	4.93
Solar Rooftop	19.00
UPS & Batteries	2.82
Sports Materials	1.10
Boarewell/CCTV/others	2.07
Maintenance	103.0101
Total	203.41

- **IT Infrastructure:**
 - 23 computers were added and as on this year the institution has 933 computers
 - Campus wide networking facility available with broad band internet facility.
 - The total amount spent for IT infrastructure and other peripherals is Rs.67.69 Lakhs
- Some of the Labs are shifted to Library Building. As a result of this, **additional class rooms** were made available in SJB & STEP Block.
- **Library Details for the year 2020-21**

Sl. No.	Branch	No. of Titles	No. of Copies	Amount
1.	B. E. Mechanical Engineering	02	10	8,490.00
2.	M.Tech Computer Science Engineering	1	5	3,125.00
3.	Mathematics	1	20	8,600.00
4.	Electronic & Communication Engineering	5	49	37,011.00
5.	Master of Computer Application	3	37	1,700.00
6.	Computer Science Engineering	7	204	2,85,969.99
7.	Information Science Engineering	2	6	3,416.00
8.	Kannada	2	140	74,00.00
9.	Mechanical Engineering	2	45	33,255.00
10.	B E Civil Engineering	3	30	19,400.00
11.	B E Electrical & Electronics Engineering	8	124	789.00
	Total	36	670	4,90,482.99

Journals & Periodicals

Sl. No.	Journals	No. of Journals	Amount
1	National Journals	40	65,550.00
2	International Journals	28	71,718.00
	Total	68	1,37,268.00

General Periodicals: 11

10. RESEARCH, INNOVATION, CONSULTANCY & ENTREPRENEURSHIP

International Conferences

- IEEE Third International Conference on Multimedia Processing, Communications and Information Technology (MPCIT 2020) was organized by Department of Electronics and Communication Engineering from 11/12/2020 to 12/12/2020
- International Conference on “Advances in Mechanical Engineering” was organized by Department of Mechanical Engineering on 06-11-2020 and 07-11-2020.
- International Conference on Telecommunication Technologies was organized by Electronics & Telecommunication Engineering department during 16-10-2020 to 17-10-2020

JNNCE Journal of Engineering & Management: JJEM –

- 9th issue (Jan – June 2021) - comprises of 7 research papers including papers from outside state and country
- 8th issue (July – Dec. 2020) - comprises of 9 research papers including papers from outside state and country

Center for Innovation & Entrepreneurship, JNNCE:

1. E-Step Boot Camp (Online) conduction to JNNCE Students by KITS, Govt. of Karnataka on 4.6.2021
2. ORIENTATION SESSION ON TRIZ (Theory of Inventive Problem Solving) - Using TRIZ for Innovation and Creativity Enhancement in Education by Dr. Sandeep H Wankhade, Associate Professor, AISSMSCOE, Pune on 19.8.2020
3. JNNCE NewGen IEDC in the campus has sanctioned Rs. 42,46,423/- amount 15 projects.

Consultancy Details

Department	Revenue (in Rs. Lakhs) generated
	2020-21
Civil Engg.	11.16
Mechanical Engg.	5.00
Electrical & Electronics Engg.	0.02
Electronics & communication Engineering	0.7
Chemistry	0.5
Information Science	0.05

▪ **Research Centre Details**

Sl. No.	Programme	Year	No. of Guides	No. of Scholars Pursuing PhD/MSc	No. of Scholars Completed Phd/MSc
1	Civil Engineering	2002	03	14	13/01
2	Mechanical Engineering	2000	09	13	09/02
3	Electrical and Electronics Engg.,	2002	03	04/01	04/01
4	Electronics and Communication Engineering	2006	03	19	03/01
5	Computer Science and Engg.,	2003	08	24	12/02
6	MBA	2006	07	13	01
7	Chemistry	2012	02	07	--
8	Physics	2016	02	03	04
9	Mathematics	2017	03	02	---
	Total		40	99/01	46/07

11. FUNDING, GRANTS & SPONSORSHIP

❖ PROJECT FUNDING

Name of the research project/ endowment	Name of the Principal Investigator/Co-investigator	Amount Sanctioned	Name of the Funding Agency
Design and Fabrication of vacuum assisted waste collector for campus roads cleaning	Dr K Sabeel Ahmed & Dr Manjunatha Chary G H	2.50	NEWGENIEDC
Biofuel Research Information and Demonstration Center, Funded by Bio-energy Development Board, Govt. of Karnataka, Bangalore	Dr Suresh H B	3.80	KSCST
Bio-fuel Research Information and Demonstration Center, Funded by Bioenergy Development Board, Govt. of Karnataka, Bangalore	Dr Suresh H B	1.50	KSCST
Intelligent Air Quality Classifier using Machine Learning and IoT	Dr. Chetan K R	2.50	NewGen IEDC
Smart Water Quality Assessment using Machine Learning and IoT	Dr. Chetan K R	2.50	NewGen IEDC
Trenching Machine	Dr. E Basavaraj	3.00	CART
Covid face mask detection using CNN model	Dr. Jalesh Kumar	0.03	KSCST
Drone Blight	Dr. K M Basappaji	2.50	NEWGENIEDC
Portable Graphene-Oxide, Vetiver Grass And Uv Light Based Multistage Filtration Unit For Water Purification	Dr. Santosh U	0.05	KSCST
Investigation on the co-pyrolysis of maize corn cob and areca nut husk	Dr. Santosh U	2.50	NEWGENIEDC
Natural bio-adsorbents and coagulants for removal of heavy metals from contaminated water	Dr. Sughosh P & Mr. Shashikumar M H,	2.50	NewGen IEDC
Development of microbial consortia for composting of biomass residue	Dr. Sughosh P & Mr. Chethan S G,	2.50	NewGen IEDC
Automated Wheel Chair Navigation And Health Monitoring Through Open-Computer Vision Using Raspberry	Dr. Sheela H R	0.08	KSCST
Smart Milk Vending Machine Using IoT	Dr. Shetty Pramod Kumar	0.04	KSCST
Development of visors with the enactment for PPE	Dr. Shetty Pramod Kumar	2.50	NEWGENIEDC

Automated Wheel Chair Navigation And Health Monitoring Through Open-Computer Vision Using Raspberry	Dr.Shwetha H R	0.05	VTU
Development of a Readymade pothole mix for distressed pavements	Mr. Arun V and Mr. Anirudh N.	2.50	NewGen IEDC
Null cement concrete	Mr. Bhuvan Kumar V.S	2.50	NewGen IEDC
Phytoremediation of waste water from casting industry using native plants	Mr. Ravi Kumar B N & Mr. V K Deepankar	0.06	KSCST
Marine Robot using RADAR system(River cleaning ROBOT)	Mr.Amarappa S	0.06	KSCST
Barn House Hygienic Management Robo	Mr.Arunkumar K L	2.50	NewGen IEDC
Smart water Quality assessment using Machine Learning and IoT	Mr.Benak Patel M P	0.93	NEWGENIDC
Development of microbial consortia for composting biomass residue	Mr.Chethan S G	2.00	NEWGENIDC
ATAL-FDP A Pedagogy for Effective use of 5G Communication Networks for Cloud Applications	Mr.Madhusudhan G	0.93	AICTE
Smart Glass For Blind People	Mr.Madhusudhan G	0.05	KSCST
Kerb Side Parking Management using Smart Mats	Mrs. Akshatha M	2.50	NewGen IEDC
Hligh Strength 3D Printing for Sand Casting	Pradeep N B	0.07	KSCST
Total		42.65	

12. INDUSTRY COLLABORATION

❖ MoUs:

1. National Highways Authority of India (NHA)
2. Avijeet Agencies (P) Ltd.
3. Govt. Tool Room and Training Center, Shivamogga
4. Global Infotech Autodesk Academic Partner
5. University of Agricultural and Horticultural Sciences, Navile, Shivamogga

These MoUs would offers internships, technical assistance for projects and eventually employment to our students.

13. PLACEMENT

SL. No.	Companies Name	TOTAL SELECTED	M. Tech	MCA	CSE	ISE	ECE	ETE	EEE	MECH	CIVIL	Salary in Rs
	Eligible students	404		25	93	51	94	22	25	47	47	
1	Infosys(HackWithInfy)	1					1					5,00,000
2	TCS DIGITAL	3			2	1						7,00,000
3	CrimsonLogic	4			2		2					4,00,000
4	TCS CODEVITA	1			1							3,34,000
5	PeP CareerNet											4,00,000
6	BETSOL	1				1						4,50,000
7	Wiley-mthree											3,50,000
8	TCS	56			17	19	15	3	2			3,34,000
9	ROBOSOFT	10			3	2	5					4,00,000
10	CEI IND PVT LTD											3,70,000
11	PRODAPT TECH	1					1					3,40,000
12	JK Technosoft	1		1								4,00,000
13	JOSH TECHNOLOGIES											8,00,000
14	PINCLICK											4,00,000
15	PVH SOFTWARE	8				2	6					3,40,000
16	TECHNOLOGICS GLOBAL	2				1		1				2,40,000
17	Wipro (Talent Next)	4			3	1						3,50,000
18	Global Edge											3,50,000
19	TechMahindra	1					1					3,50,000
20	Wipro	5			3	1	1					3,50,000
21	Kalgudi											6,00,000
22	Infosys	17			3	3	8	1		2		3,50,000
23	VuNet	5			4	1						3,00,000
24	SUBEX	1			1							5,00,000
25	IBM	1				1						4,00,000
26	Actyv											3,30,000
27	Chegg Ind Pvt Ltd											2,80,000
28	TECHNOLOGICS GLOBAL	5			1	1	1		1	1		2,40,000
29	Innoeye Technologies											3,50,000

SL. No.	Companies Name	TOTAL SELECTED	M. Tech	MCA	CSE	ISE	ECE	ETE	EEE	MECH	CIVIL	Salary in Rs
30	Rakuten	2		2								3,00,000
31	Qualitas	2								2		2,40,000
32	PI-Square	4					4					3,00,000
33	CRMIT	1				1						5,00,000
34	Apisero	2				1	1					5,10,000
35	FIS Global	13			4	9						5,35,000
36	KPIT	1					1					4,00,000
37	NoBroker											6,00,000
38	Mindtree	17			6	6	5					4,00,000
39	Capgemini	13		1	1	7	4					4,00,000
40	PCS	20		1	5	3	8	1		2		2,80,000
41	Qspiders	34		1	5	2	8	5	7	6		CSR
42	NEUDESIC											3,00,000
43	Raja Software	3					3					5,00,000
44	Infogain											3,00,000
45	Ignitarium Technology	1			1							4,00,000
46	Evive	4			2	2						6,00,000
47	Persistent	2			1	1						4,00,000
48	Pentagon Space Pvt Ltd	20	1	1	5	3	4	1	4	1		CSR
49	Kanini	1			1							4,00,000
50	Rai Jnan	6		1	1		3		1			CSR
51	Mindteck	5			2	3						4,30,000
52	Covalense Digital											4,00,000
53	Accenture	32		1	12	8	8		1	2		4,50,000
54	Quinnox	1			1							3,50,000
55	X-workZ ODC	65		1	11	13	16	7	13	2	2	CSR
56	Codilar Technologies	1					1					3,00,000
57	Walkter Beacon	1		1								2,60,000
58	Starmark Software	1		1								3,80,000
59	ECS Technology	1		1								2,40,000
60	Intellobots	1		1								3,50,000
61	Smart Brainz	1		1								2,70,000

SL. No.	Companies Name	TOTAL SELECTED	M. Tech	MCA	CSE	ISE	ECE	ETE	EEE	MECH	CIVIL	Salary in Rs
62	Dover India Private Limited	1			1							6,50,000
63	DMI											3,40,000
64	Allstate India Pvt. Ltd	1			1							4,25,000
65	PWC	1					1					4,50,000
66	Elcamino Software	30			5	1	8	1	6	8	1	2,40,000
67	KPMG	2				1	1					5,00,000
68	MountBlue	1					1					4,00,000
69	WisdomLabs	1				1						3,60,000
70	Mphasis	1			1							3,25,000
71	SCII	1				1						3,00,000
72	Abacus Financials	4			3	1						4,50,000
73	Global Quest Technologies	5			3	1	1					CSR
74	Verzeo	23			4	4	4	5	1	5		3,00,000
75	TVS Upasana											1,80,000
76	Attrra Infotech Pvt Ltd	7			1		6					4,50,000
77	UGAM Solutions	2			1			1				2,50,000
78	Hexaware Technologies	1			1							3,50,000
79	Profecxo	1		1								2,40,000
80	Ekfrazo	1		1								1,80,000
81	TEKIE	1			1							7,00,000
82	OLIGOSOFT CORP LLP	1			1							2,40,000
83	Vuram Technologies	2					1		1			4,50,000
84	Danlaw Inc	1					1					4,50,000
85	DMart	2							2			3,00,000
86	Maple Labs	1			1							4,60,000
87	BYJU'S	1					1					4,50,000
88	HealthAsyst	1					1					3,00,000
89	SYNFINITY	1			1							3,00,000
90	Hybrid Urbanists Pvt Ltd	1									1	2,00,000
91	Cognizant	14			5		3	2	1	3		4,00,000
92	Deloitte	1			1							2,80,000
93	Unvired Software	2			2							3,33,254

SL. No.	Companies Name	TOTAL SELECTED	M. Tech	MCA	CSE	ISE	ECE	ETE	EEE	MECH	CIVIL	Salary in Rs
94	Starmark Software											4,00,000
95	Bristlecone	1			1							3,60,000
96	Teachnook	9			1	1	1		6			2,00,000
97	Sharp Software	2			1		1					3,00,000
98	BYJU'S	1					1					10,00,000
99	Secpad											3,00,000
100	SKOLAR											3,00,000
101	Zensar Technologies	1							1			3,33,000
102	Pathpartner	1					1					6,29,000
103	Principal Global	1					1					6,00,000
104	DXC Technologies	2			1		1					3,60,000
105	HashedIn by Deloitte.	1			1							8,00,000
106	CGI	2			1	1						3,50,000
107	Mphasis	3			1			1	1			3,25,000
108	ETON Solutions	4				1	1	1	1			4,00,000
109	JSW Cement	2									2	4,50,000
110	Adaaya Farm	1								1		2,80,000
Total		525	1	17	138	106	143	30	49	35	6	

14. SPORTS, CULTURAL ACTIVITIES & CAMPUS LIVING

❖ SPORTS

Achievements in sports: 2020-21

A. Team Achievements

Sl. No.	Month & Year	Event / Games	Held at	Place secured
1.	March 2020	VTU Central Karnataka zone Volleyball Men tournament	HMSIT, Tumkur	Runners
2.	March 2020	VTU Rest of Bangalore zone Volleyball Women tournament	JNNCE, Shivamogga	Runners
3.	March 2020	VTU Central Karnataka zone Cricket Men tournament	SIT, Tumkur	Winners

B. Individual Achievements

Sl. No.	Name of the student	Event / Games	Held at	Place secured
1.	Impana B 3 rd sem TC	19 th Karnataka state Wushu championship	Gadag	1 Gold 1 Silver
2.	Mohammed Ibrahim 3 rd sem MTECH	19 th Karnataka state Wushu championship	Gadag	2 Gold 1 Silver
3.	Hithesh S 5 th sem MECH	19 th Karnataka state Wushu championship	Gadag	1 Bronze
4.	Gufan Sheik 1 st sem MECH	19 th Karnataka state Wushu championship	Gadag	1 Gold 1 Silver
5.	Sourabh SR 7 th sem CS	KSCA Inter district tournament for under 23 years 2020-21	Shivamogga	Winner
6.	Sourabh SR 7 th sem CS	KSCA Inter Moffusil zonal Cricket tournament for under 23 years 2020-21	Bengaluru	4 th place
7.	MD. Hamza 3 rd sem CIVIL	KSCA Inter district tournament for under 19 years 2020-21	Shivamogga	Winner
8.	MD. Hamza 3 rd sem CIVIL	KSCA Inter Moffusil tournament for under 19 years 2020-21	Bengaluru	Participated

15. NES AND SOCIETY

Institution Social Responsibility – ISR Activities & Outreach Programs

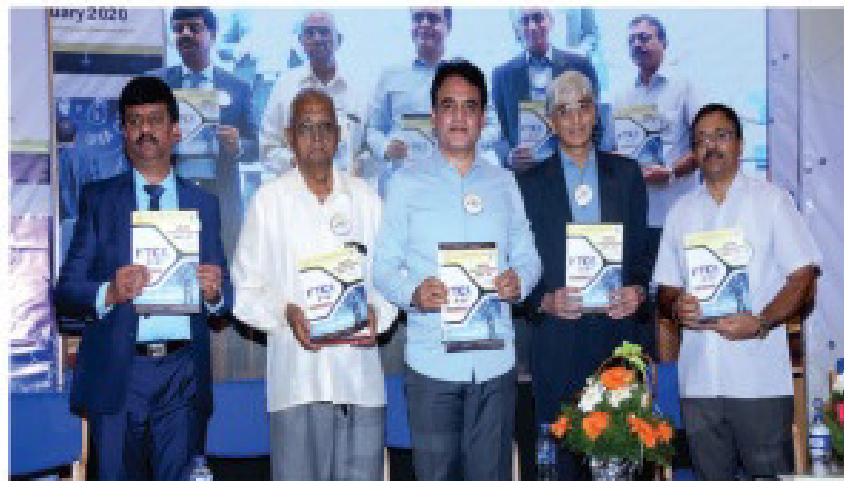
1. JNNCE – NSS students organized vaccination drives during pandemic period and distributed food packets during April – July, 2021 Shimoga District.
2. Department of Management Studies, JNNCE had organized one day “Webinar & Discussion on “Blended Mode of Teaching and Learning: Concept Note-Circulated by UGC” for NES Faculties on 5th June2021.
3. Biofuel awareness & Demonstration program was organized for the Principal and Staff Govt Pu College Nyamathi on 15-10-2020
4. Chirantana Green Technology Center in association Bio- Fuel Awareness & Demonstartion Centre planed the trees in the campus in the eve of World Bio-fuel day-2020 on 10.8.2020
5. Dr. H B Suresh, Coordinator, Bio-fuel Research, Information & Demonstration Centre (BRIDC) delivered several lectures in the Bio- Fuel Awareness & Demonstration programs organized regularly in Shimoga District.
6. JNNCE – NSS Units regularly conducts inspection of RO plants installed in Shimoga District.



Inauguration of Karnataka Tech Entrepreneurship Summit - 2020



Distinguished Entrepreneur Awardees-KTES 2020



Release of Karnataka Tech-Entrepreneurship Summit 2020 Souvenir



Valedictory Program of KTES - 2020



Inauguration of DREAMZ



Inauguration of Entrepreneurship Awareness Programme



**Rs.1 lakh Cheque Handover at Nellore Alumni Meet
by Alumni Sri Goverdhan Reddy, MLA, Sarvepalli (AP)**



Nellore Alumni Meet 2020 team



Release of Handbook and Prospectus- 2019



**Inauguration of International Conference
on Banking, Financial Services and Insurance-MBA**



Inauguration of I.B.E. Orientation Program - 2019



Inauguration of National Conference NCR TASCE-2019: Maths Department

NBA EXPERT TEAM VISIT

18th - 20th October, 2019



NBA EXPERT TEAM VISIT

22th - 24th November, 2019

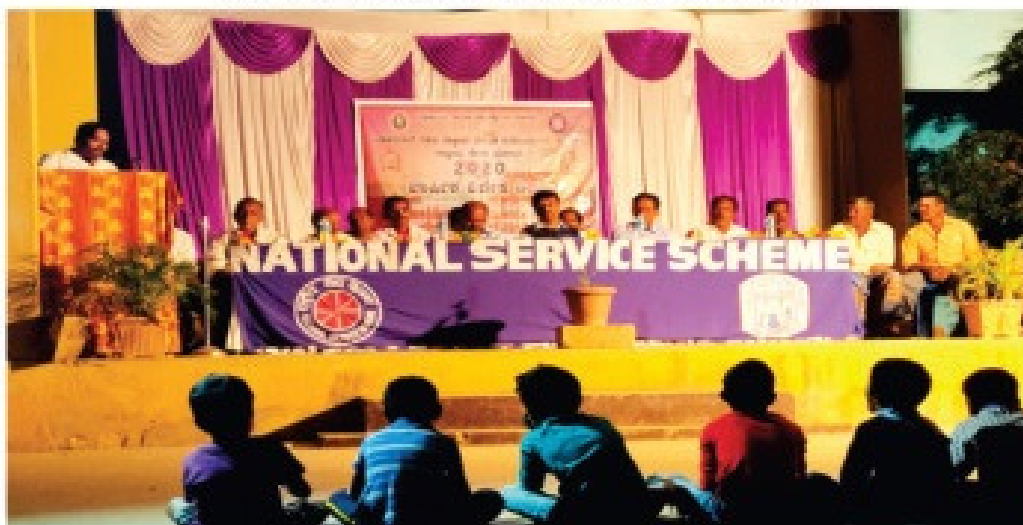


NBA team visit





Constitution day Celebration by NSS



NSS camp -2020 at Navile Basavapura



Blood donation Camp- NSS



Inauguration Programme of SPARK-2020



Inauguration of DST INSPIRE Internship Camp



JNNCE-SuIMS:MOU



JNNCE-5 Jewels Research: MoU



JNNCE-SV Services: MoU



JNNCE-DVS, Shivamogga: MoU

Parents Meet-2020



Felicitation to Entrepreneur Nivedan Nempe-PLASMA 2019



PLASMA 2019 - Activities



**ECE- Line Follower
Workshop**

**MCA - Technical skill
Programme in IOT**



**ECE-PCB
Workshop**

**CIE -Entrepreneurship
awareness workshop**



**EEE - SDP on
Building
wiring & Industrial
Control**



Lecture on Recent Developments in Banking Industry in India - MBA

Workshop on Solar Energy Systems - EEE Dept.



Workshop on Industry 4.0 - TCE Dept.

Workshop on Hardware Components & PC Assembling - MCA Dept



Workshop on Digital Marketing - MBA Dept.



**VTU TEQIP-1.3 FDP
- EEE**

**Skill Development
Program for
Transportation
& Hostel Staff
- JNNCE**



**Leadership
Development
Program for
HoDs & Professors
- JNNCE**

**Inauguration of One Day
VTU Consortium Training
Programme on E-Resources
For Academic Excellence
- Library**



**Training on
Synchro & Sidra
Software-Civil**

Glimpses of VTU Fest - 2019



Dance Team
First Place in

VTU Cultural Fest Team
with Team Manager



Mime Team
First Place

JNNCE team Performance



Chiranthana Activities



JNNCE team @ Youvajanothsava



Uttana-2020 by MBA Dept.



Sports Achievements



Cricket Men team



Volleyball Women team



Badminton - Women & Men team



Power lifting Women team



Tennis Men team



Taekwondo - Women Men team



Table Tennis Men team



Handball - Men team



Football - Men team

Students Representation - VTU



Mohammed Ibrahim



Aditya S A



Hitesh



Soundarya M K

VTU Sports Events Hosted



Mens Cricket tournament



Mens Handball tournament.



Inauguration of Mens Volleyball tournament

Cash Award



Institutional cash award for Sports & Cultural achievement-2019

Staff Meet



NES Staff Sports Meet 2020



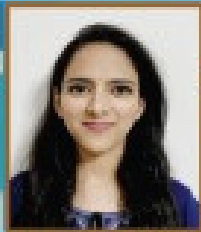
National Education Society (R.)

J N N COLLEGE OF ENGINEERING SHIVAMOGGA



V.T.U. RANK HOLDERS

2018 - 19



Rashmi S G
1st Rank with Gold Medal
M.Tech - Computer Science & Engg.



Chandana C Acharya
1st Rank with Gold Medal
M.Tech - Transportation Engg. & Mgrnt.



Sandya N V
1st Rank with Gold Medal
M.Tech - Digital Elec & Commun. Systems



Arpitha H R
2nd Rank
M.Tech - Digital Elec & Commun. Systems



Anusha P S
8th Rank
M.Tech - Computer Science & Engg.



Ramya K R
4th Rank
Master of Business Administration (MBA)

*Hearty
Congratulations*



National Education Society (R.)
J N N COLLEGE OF ENGINEERING, SHIVAMOGGA - 577204

Approved by AICTE, New Delhi, Constituted by GOVT. of Karnataka, Government of India, Bangalore. Affiliated to J. J. Somaiya Institute of Engineering & Technology, Shivamogga. Recognized by Govt. of Karnataka as J. J. Somaiya Institute of Engineering & Technology, Shivamogga.



HEARTY CONGRATULATIONS



Ms. T.J. SANJANA MALADHAKAR

For clearing the International Civil Service Examination and selected as Senior Engineer at International Atomic Energy Agency, Vienna, Austria, United Nations Alumna of Department of Electronics and Communication Engineering 2013-17 Batch



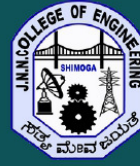
Mr. PRITHVI S HULLATTI

For Clearing the UPSC Exam with Rank 582
Alumnus of
Department of Mechanical Engineering
2013-17 Batch

YOU HAVE MADE US PROUD



NATIONAL EDUCATION SOCIETY (R)
**JAWAHARLAL NEHRU NEW
COLLEGE OF ENGINEERING**
Shivamogga, Karnataka



ADMINISTRATIVE BLOCK



STUDENT AMENITIES CENTRE (SAC)



COLLEGE CANTEEN

LIBRARY & INFORMATION CENTRE



HOSTELS



ANNUAL REPORT 2020-21



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Shivamogga, Karnataka



ANNUAL REPORT 2020-21