Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIVAMOGGA**
Name of the head of the Institution	**DR. H.R.MAHADEVASWAMY**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**08182276707**
Mobile no.	**7899478990**
Registered Email	**principal@jnnce.ac.in**
Alternate Email	**hrmswamy65@yahoo.com**
Address	**SAVALANGA ROAD, NAVULE**
City/Town	**SHIVAMOGGA**
State/UT	**Karnataka**
Pincode	**577204**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Semi-urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**DR. S.V.SATHYANARAYANA**
Phone no/Alternate Phone no.	**08182257987**
Mobile no.	**9886494150**
Registered Email	**iqac@jnnce.ac.in**
Alternate Email	**svs@jnnce.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://jnnce.ac.in/jnndemo/ranking.html

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://jnnce.ac.in/jnndemo/coe.html

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B**	**2.29**	**2018**	**26-Sep-2018**	**25-Sep-2025**

6. Date of Establishment of IQAC	**15-Mar-2017**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
One week National Level Workshop on	**29-Aug-2018** **5**	**100**

State Level Hackathon Competition	04-Sep-2018 2	130
Academies Lecture Workshop on	07-Sep-2018 2	120
Make in Shivamogga Event	19-Sep-2018 1	200
International Conference on Emerging & sustainable trends in Civil Engineering	27-Sep-2018 2	38
Entrepreneurship Awareness Camp	03-Oct-2018 3	150
National Workshop on	17-Dec-2018 5	40
International Conference on Marketing in Digital World: Trends, Opportunities & Challenges	04-Jan-2019 2	100
National Level Workshop on	28-Jan-2019 5	40
Invited Talk and demonstration on Fire Brigade Practice by Fire Station Professionals	16-Mar-2019 1	400
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. Jalesh Kumar	Students Project Programme	Karnataka State Council for Science and Tachnology	2019 365	6000
Dr. D S Ramakrishna	Students Project Programme	Karnataka State Council for Science and Tachnology	2019 365	17000
Dr. E Basavaraj	Students Project Programme	Karnataka State Council for Science and Tachnology	2019 365	8000
Mr. Anand Raj S N	Students Project Programme	Karnataka State Council for Science and Tachnology	2019 365	7000
Dr. L K Sreepathi	Bio Fuel Research	Karnataka State Bio-Energy	2018 365	450000

	Information and Demonstraion Activities	Develoment Borda			
Dr. H R Mahadevaswamy	NewGen IEDC	NSTEDB, DST, Govt. of India	2018 365	6000000	
Dr. H R Mahadevaswamy	New Age Incubation Network	Department of ITBT & ST, Govt. of Karnataka	2018 365	4000000	
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**8**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. Quality initiatives in Teaching Learning Process 2. Domain skill based placement training 3. Upgrading domain skill set of students and improving employability – A model for implementation 4. Karnataka Tech Entrepreneurship Summit organised by JNNCE (Theme : Building Startup Echo System and Entrepreneurship Spirit) during 1416, Feb. 2019 5. Initiation, Monitoring, guidance and continuous follow up of NBA Process

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Quality initiatives in Teaching Learning Process	**1. Remedial Classes were conducted 2. Parent Teachers Meetings were organized. 3. Project based learning was practiced through organizing hackathons and student enrichment**

	programs 4. Results were improved and student detention rate is reduced by 50. 5. Evaluation Rubrics have been designed and practiced in evaluation of Seminars, Internships and Project Work 6. Outcome Based Education practiced in all the departments.
Quality initiatives in organizing events	"1. All the Brochures, Banners and Invitation format is standardized 2. Event Report template is designed and used by all the departments to submit the event report after the event. 3. Themes and type of the events to be organized was discussed and directed by IQAC."
Domain skill based placement training	Training & Placment Cell has organized 13 skill based placement training during this academic year
Centralized Internal Assessment conduction for First Year UG course	"Common Question paper template was designed and it is used by First Year Faculty members to conduct Internal Assessment"
Preparatory Examination for First Year UG course	Preparatory Examination was conducted for the first year students and as a result there was an improvement in the result of First Year.
Academic Administrative Audit – AAA	AAA core committee was formed on 17.6.2019
Upgrading domain skill set of students and improving employability – A model for implementation	8 student enrichment programs were organized to improve the employability.
Alumni Meet at Bangalore	Alumni Meet at Bangalore was organized on 3.2.2019 & around 300 alumni participated
Karnataka Tech Entrepreneurship Summit to be organised by JNNCE (Theme : Building Startup Echo System and Entrepreneurship Spirit)	Karnataka Tech Entrepreneurship Summit KTES 2019 was organized during 14 16, Feb. 2019. Outcome of Karnataka Tech Entrepreneurship Summit – KTES2019 • Delegates were exposed to different facets of issues surrounding entrepreneurship in the era of innovation in tier 2 tier 3 cities • It has brought in the culture of entrepreneurship in the young minds to create a better future. • It has helped to create opportunities for the promotion of Startups and Entrepreneurship • It has provided a platform for the 'aspiring entrepreneurs' to have handson experience before they can finally enter the market. • It helped to bring together the academic community, venture capitalists, new age entrepreneurs and all those passionate

	about entrepreneurship to a common ground • Five MoUs were signed, 3 technology development centres one start up have started in the campus
Evaluation Rubrics for Project First Phase Seminar - Final Year UG	**Project Evaluation Rubrics was designed and used by all the departments**
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
JNNCE Governing Council	**01-Oct-2019**

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	**18-Oct-2019**

16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2019**
Date of Submission	**12-Feb-2019**

17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**JNNCE uses Dhi (Heraizen's Digital Automation Platform for education) which helps all stakeholders to get the information and data at the click of a button. The Dhi suite comprises of • Academics Automation module • Administration Automation module • Accreditation Readiness engine (Supports NBA, NAAC, NIRF or other) For students Dhi helps them get the information about their timetable, IA marks, holidays, remedial classes, facilities and amenities in the campus, events in the campus and so on. Dhi lends the support to the parents to know the details and progress of their wards. It also gives a glimpse of the time table, IA marks and other details essential for the parents and guardians to be aware of on a real time basis ! Dhi (Heraizen's Digital Automation Platform for education) is**

conceptualized and designed around, afutureready, evergrowing engine that would have limitless ability to adapt. Students and Parents can use this through Dhi App by their respective User Id and password provided to them. Modules Currently operational: 1. Dashboard 2.Attendance 3. Lesson Plan 4. Internal Other Assessment 5. University Exam 6. Feedback 7. Reports 8. Performance 9. Mentoring 10. NBA Module 11.Profile 12. Alerts notifications

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Curriculum delivery and documentation is important in success of any institution. For the curriculum delivery and documentation institute implemented well planned mechanism as below: • JNNCE is imparting education in Technology and Management since 39 years. JNNCE is running B.E, M.Tech, MCA and MBA programmes. JNNCE is affiliated to Visveswaraya Technological University, Belgaum. Since we are affiliated to VTU, Institution is follows the curriculum prescribed by the VTU. Institution puts sincere effort in developing mechanism to deliver the curriculum prescribed by the University. • In the departmental level Coordinator in consultation with Head of the Department, Principal, and faculties allocates subjects to individual faculties based on their functional expertise. • In the institutional level, Class time table is prepared by the Time table committee and same time table is followed by the each department. • Each faculty will maintain Lesson plans, course files and teachers dairy in their respective subjects and are reviewed on a continuous basis by the HOD, Vice-principal and the Principal. • In the beginning of the odd semesters, Institution prepares academic calendar and printed copies in the form of Handbook is distributes to all students and faculties. Academic calendar includes detailed information about the institutional academic activities, internal tests dates, schedule of extra and co-curricular activities etc. • To monitor the performance of students, institution conducts three internal tests and faculties will give the feedback to students. • Regular departmental meetings (monthly) conducted to discuss the proper implementation, monitoring and the delivery university curriculum. • The syllabus books, old question papers, Model question papers, notes, lecture PPTs, lab manuals and subject related videos for each subject are provided by the faculty to the students. • Institution has plenty of courses resource materials and institution also facilitates course reference materials such as magazines, journals and books in the library. • Institute updates library by adding new books, magazines and journal based on course, students and faculty requirements. • Institute arranges short-term training programs of teaching and non-teaching staffs during vacation to ensure the effective delivery of course contents. • At end of the each semester Student feedback taken to review the performance the faculty members, and based feedback given students corrective measures are implemented by the HoD and Principal. • Institute faculties follow mix of traditional method of teaching and modern teaching methods in UG and PG classes. In addition, Faculties are using modern methods teaching by using

laptops, LCD Projectors, power point presentation, simulated videos to make class room more interesting. • Mentoring, coaching classes and tutorial classes conducted for slow learners. Fast learners are motivated through counseling, project based learning and subject quizzes. • In addition to regular subject classes, the college also organizes special lectures by inviting experts from various fields to share their knowledge and experiences with the students in their field for expertise. • The Institute also organizes Personality Development Programs for overall development of the students, which is rooted as part of curriculum. Personality Developments programs are conducted by the industry

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
No Data Entered/Not Applicable !!!					

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
No Data Entered/Not Applicable !!!		

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	0	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
No Data Entered/Not Applicable !!!		
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MBA	A Study on Retailer Perception towards Nandini Milk and Milk products with Special reference to SHIMUL Shimoga city	1
MBA	Marketing of Holiday Packages: A Study with Reference to Garuda Associates, Bangalore	1

MBA	A Study on Passenger Expectation towards Transportation of Transport Co-operative Society Ltd., Koppa	1
MBA	A Study on Customer satisfaction towards services provided by Reliance Trends, Shimoga	1
MBA	Comparative study and Market Analysis on ITC Engage Pocket Perfume with other new entrants in same segment	1
MBA	A Study on Customer Opinion and Satisfaction towards Bata Shoe Store (With special reference to MG palace, Gopi circle, Shimoga)	1
MBA	Impact of Promotional Activities on Consumer Buying Behavior – A Study with Reference to Harsha, Shivamogga	1
MBA	Effectiveness of Supply Chain Management Strategies in Cattle Feeds: A Study with Reference to KMF Cattle Feed, Shikaripura.	1
MBA	Retail Management of Supermarkets with special reference to Vishal Mega Mart, Laggere, Bengaluru	1
MBA	A Study on Dealer's Expectation and Satisfaction towards HP with reference to Mangalore Zone	1
MBA	A Study on Marketing & Distributional Channel (Strategies) of Mysore Sales International Limited Mysore	1
MBA	Measurement of Awareness, Perception and Willingness to Buy Malnad Aqua Packaged Drinking Water: A Study with Reference to Shivasatya Enterprises Kudregundi	1
MBA	A study on Customer	1

		Expectations towards Products and Services offered by Big Bazaar, with special reference to Big Bazaar Shivamogga	
MBA	A Study on Effective use of Social Media in Health Care Sector with special reference to Sunrise Digital Media, Bangalore	1	
MBA	A Study on Customer Expectation and Satisfaction about service with Special Reference to Metro United Healthcare Shimoga	1	
MBA	A Study on Service Gap Analysis on Hospital Industry with Special Reference to MaAx Super Speciality Hospital, Shimoga	1	
MBA	A Study on Consumer Perception about Organized v/s Unorganized Retailers outlet at MORE Shivamogga	1	
MBA	Readers Attribute Analysis in Subscribing Evening Newspaper: A Study With reference to Shimoga Times, Shimoga	1	
MBA	A Study on Customer Satisfaction and Expectation towards Tunga Taranga Kannada Daily newspaper in Shimoga District	1	
MBA	A Study on Supply chain management with special reference Shanthala Spherocast Private limited, Shimoga	1	
MBA	A Study on Visual Merchandising and its Impact on Consumer Buying Behavior with Special Reference to Big Bazaar, Mysore	1	
MBA	A Study on Customer Expectation and Satisfaction towards Sparsh Hospital, Bangalore	1	

MBA	A Study on Customer Perception and Content Analysis of The Hindu Newspaper with special reference to Shimoga region	1
MBA	A Study on Level of Awareness, Perception and Satisfaction to Avail the Services of Hospitals in Shimoga: With Special Reference to Sarji Hospital, Shimoga	1
MBA	A Study on Level of Awareness, Perception and Satisfaction to Avail the Services of Hospitals in Shimoga: With Special Reference to Sarji Hospital, Shimoga	1
MBA	A Study on Customer Satisfaction and Expectation towards Products offered by BAMUL MILK DAIRY, Audigodi, Bangalore	1
MBA	A Study on Client Attribute Analysis in Pre-Purchase and Post-Purchase of Materials and Equipment with Special Reference to Rane (Madras) Ltd, Mysore	1
MBA	A Study on Customer Opinion about Packed Drinking Water with Special Reference to Fine Aqua in Shivamogga City	1
MBA	A study on Customer opinion and satisfaction towards Amul Ice creams a case study in Shimoga	1
MBA	A Study on Selected Schemes of Large Capital Mutual Fund Under Aditya Birla Sun Life Mutual Fund AMC LTD	1
MBA	A Study on Budget Budgeting Budgetary Control with special reference to Hoysala Karnataka Pattina Souharda sahakari Niyamitha, Shivamogga	1

MBA	A Study on Customer Satisfaction with special reference to Spice Café of Akash Inn Hotel	1
MBA	A Study on Financial Analysis in Health Insurance Company With Special Reference to Apollo Munich Health Insurance, Shimoga	1
MBA	A Study on Financial Statement Analysis with reference to Urban Cooperative Society Limited, Shivamogga	1
MBA	An Analysis of Financial Performance and Status of City Co-Operative Bank Ltd., Shimoga	1
MBA	A Study on Performance Evaluation of Mutual Funds with Special Reference to Aditya Birla Money Ltd, Shimoga	1
MBA	A Study on Financial Statement Analysis in Cooperative Society with special reference to Sudarshana Souhardha Sahakari Niyamita, Mattur, Shimoga	1
MBA	A Study on Analysis of Loans and Advances with Special reference to Shiva Credit Co-operative Society Ltd., Honnali	1
MBA	A Study of Operational and Financial Performance of MAMCOS Ltd., Shimoga	1
MBA	A Study on Working Capital Management with Special Reference to Naetek Ferrocastings Pvt Ltd. Machenahalli , Shivamogga	1
MBA	Financial Analysis in Co-operative Societies with special reference to Tota Uthpannagala Marketing Co-operative Society Ltd., Channagiri	1
MBA	Estimating Sensex Volatility using GARCH	1

	Model at the Bombay Stock Exchange Brokers Forum, Dalal Street, Fort, Mumbai		
MBA	A Study on Financial Statement Analysis with special reference to Durgigudi Cooperative Society, Shivamogga	1	
MBA	A Study on Inventory Management with Special Reference To KMF Cattle Feed Plant, Sanda	1	
MBA	A Study on Financial Statement Analysis in Co-operative Societies with Special Reference to Sri Basaveshwara Swamy Urban Credit Co-operative Society Ltd., Shimoga	1	
MBA	An Evaluation and Study on Various Loan Schemes Provided by Mayura Souharda Credit Co-operative Society ltd Shimoga	1	
MBA	A Study On Financial Performance With Special Reference To RAMPCOS (Raithara Adike Marata Matthu Pariskarana Co-operative Society), Bhadravathi	1	
MBA	Customer Satisfaction Towards Service Delivery of Sona Honda Showroom	1	
MBA	A Study on Customer Satisfaction towards Maharaj Soap Industry Pvt ltd Davangere	1	
MBA	Marketing Strategies in Creating Brand Image of FMCG through store promotion in Gangavathi with Special Reference to Saroj Agro Industries	1	
MBA	A Study on Customer Opinion and Satisfaction towards Saket Interior Pvt. Ltd., Bangalore	1	
MBA	A Study on Distribution Management and Dealers opinion towards ACC Cements, Shivamogga	1	

MBA	Measurement of Awareness, Perception and Willingness to buy Evening News Papers: A Study with Reference to Namma Naadu Newspaper, Shimoga	1	
MBA	Customer Expectation and Satisfaction in Agriculture / Horticulture Equipment Analysis	1	
MBA	A Study on Customer opinion and expectation towards pantaloons, Gopalan Innovation mall, Bangalore	1	
BE	Biometric Based Bus Ticket	4	
BE	Bionix	6	
BE	Automation Unit for Industrial Appliances	3	
BE	Study and Implementation of Interline Custom Power Devices (ICPD)	2	
MBA	A Study on Financial Performance Analysis in Casting Industries with special reference to Prragathi Steel Castings Pvt. Ltd., Shivamogga	1	
MBA	A Study on Financial Analysis of Co-operative Societies with Special Reference to Arya Vyshya Sri Rama Sahakara Sangha Niyamitha, Shimoga	1	
MBA	A Study on Credit Appraisal of Consumer Loans with special reference to M/s Malnad Credit Co-Operative Society Ltd, Shimoga	1	
MBA	A Study on Financial Performance Of Goodwill Credit Co-Operative Society Ltd, Shimoga	1	
MBA	A Study on Financial Performance Analysis of WeP Solutions Ltd, Mysore	1	
MBA	An Evaluation of Loan Portfolio and Recovery Mechanism of The	1	

	Graduates Co-operative Society Ltd, Shimoga	
MBA	An Analysis of Financial Statements with reference to M/s Adhishakthi Casting Private Limited	1
MBA	A Study on Financial Performance of Karnataka Rajya Adike Marata Sahakara Niyamitha Shivamogga, Using Ratio Analysis	1
MBA	A Study on Non-Performing Assets in Banks With Special Reference to Vijaya Bank R O , Shimoga	1
MBA	A Study on Financial Performance of SKDRDP, shivamogga through Ratio Techniques	1
MBA	A Study on Loan Sanction and Disbursement with special reference to Karnataka State Financial Corporation, Shivamogga	1
MCA	Image Recognition	1
MCA	Concrete Integrity Panel With Corporate Solutions	1
MCA	Secure Cloud Logging	1
MCA	Securing Web Digital Contents	1
MCA	Bank App	1
MCA	Application Using Mit App	1
MCA	A Secure Distribution Key On Encrypted Information Over Cloud Data	1
MCA	M-Camp	1
MCA	Strategic Research & Development Alliance Provision With Resources	1
MCA	Human Activity Detection	1
MCA	Boutique Management Software	1
MCA	Regulated Admin Panel With Controlled Performance Report	1
MCA	Agriculture Assist	1
MCA	Health Care System	1
MCA	Dimensional Study With	1

	Graphical Patterns And Techniques	
MCA	Online Election System	1
MCA	Categorical Domain Research Stats Generator Response Graphs	1
MCA	Dog Breed Recognition	1
MCA	Analysis & Listing Of Business Based On Reviews & Rating	1
MCA	College Expert And Adviser Vagdevi Pre University College	1
MCA	Multi Layered Reviews Processer In enterprise Application Using Deep Learning Protocols	1
BE	Utilization of Solid Waste Sludge's in making of Eco Brick Production	4
BE	Industrial Waste Water Treatment by Phytoremediation technique	4
BE	Experimental investigation on replacement of cement by hypo sludge in concrete	4
BE	Feasibility Study on capacity specific lane on straight stretch	4
BE	Feasibility Study on capacity specific lane on curve	4
BE	Feasibility Study on capacity specific lane on gradient stretch	4
BE	Development of foundry sand cement interlocking blocks	4
BE	Modernized land surveying using unmanned aerial vehicles	4
BE	Road safety audit	4
BE	Design of parking for selected roads in Shivamogga city	4
BE	IOT based automated water supply and monitoring system	4

BE	Replacement of sand portion in bituminous mixes using waste plastic	4
BE	Design and development of accelerated erosion testing apparatus for building materials	4
BE	Bending performance of concrete using glass fibers and shredded plastic	4
BE	Experimental study of strength characteristics between site mix and standard mix	4
BE	Improvising the visualization of building drawing using virtual reality	4
BE	Durability of building blocks against acid attacks, Sulphate attack and chloride ion penetration	4
BE	Utilization of recycled concrete aggregates in SCC for sustainable development	4
BE	Mix design on waste foundry sand stabilized blocks	4
BE	Hydrophobic sand to combat water scarcity in the field of irrigation	4
BE	Influence of steel slag on bituminous concrete	4
BE	Pavement design and life cycle cost analysis of rural road	4
BE	Design of box culvert	4
BE	Determination of chemical composition of foundry sand by XRD analysis	4
BE	Identification of black spot in Shivamogga city from MRS circle to Siddaapura Circle	4
BE	Road safety audit	4
BE	Compatibility of chemical admixture with cement using marsh cone test	4

BE	A study on hydrological parameters and design underground rain water harvesting pit JNNCE campus	4
BE	Effect of non-motorized vehicles, Auto rikshaws and buses in public mixed traffic condition in Shivamogga	4
BE	Bicycle transit network system for Shivamogga City	4
BE	Case study on deterioration of urban and rural road under mixed traffic condition	4
BE	Water quality and heavy metal detection in water body. A case study using RS and GIS and GPS	4
BE	Treatment of filter back wash waste water by naturally derived coagulant	4
MBA	A Study on Financial and Operational Performance of Co-Operative Societies with special reference to Thirthamutturu Co-Operative Society Ramakrishnapura	1
MBA	A Study on Financial Statement Analysis in Co-Operative Societies,With Special Reference To Sri Kalikaparameshwari Co-Operative Society Ltd, Shimoga	1
MBA	Financial Statement Analysis with special reference to Vinayaka Engineering Services, Shivamogga	1
MBA	An Analysis of Financial Statement with reference to Vijay Technnocrats Private Limited Shivamogga	1
BE	Analyzing The Decision Tree On Different Data Sets To Get Best Hypthesis.	4

BE	Drip Irrigation Based On Soil Moistrure Using Iot	4
BE	Internet Of Things (Iot) Based Smart Poultry Forming	4
BE	Gas Leakage Detection And Prevention Kit Provision With Iot	4
BE	Women Security Model Using Iot	4
BE	A Robust Image Watermarking Technique With An Optimal Dct-Psychovisual Threshold	4
BE	Revival Of Selfish Nodes In Manet	4
BE	Heart Health Monitoring System Using Iot	4
BE	Remote Patient Monitoring System Using Iot And Android	4
BE	Virtual Map Based Approach To Optimize Storage And Perform Analytical Operation On Educational Bigdata	4
BE	A Symmetric Image Encryption Scheme Based On Composite Chaotic Dispersed Dynamic System	4
BE	An Automatic Image Rendering Approach By Packing Keywords	4
BE	Human Action Recognition Using Machine Learning Techniques	4
BE	Fuzzy-Logic-Based Rate Adaption Scheme For Tfmcc	4
BE	Predict The Diagnosis Of Heart Disease Patients Using Classification Minig Techniques	4
BE	Face Spoofing Detection Using Local Graph Structure.	4
BE	Facial Expression Recognition	4
BE	Modern Forming System	4
BE	Digital Image Encryption Using Arnold's Cat Map	4

BE	Hybridization Approaches For Archiological Monument Analysis.	4
BE	Sentimental Analysis Of Tweets About Indian Prime Minister	3
BE	Point-Of-Interest Recommendation For Location Promotion In Location-Based Social Networks	4
BE	Security To Cloud Storage System	2
BE	Design and Implementation of fault identification in underground cable using IOT	4
BE	Wireless Mobile Charge Transfer using WPT Technology	4
BE	IOT Based ICU Patient Monitoring System	4
BE	Monitoring and Controlling of Bank Locker Security System	4
BE	Image Processing Based Fire Detection System	3
BE	Design, Develop and Implementation of Rose Harvesting system using Image Processing and Raspberry Pi	4
BE	Super resolution using Sparse Representation	4
BE	IOT Based Flash Flood Monitoring and Alert System	4
BE	Management & real-time surveillance of warehouse using Raspberry Pi	3
BE	Automated shopping trolley for Super Market Billing System	4
BE	Automatic Accident Detection and management System	4
BE	Automated Ration Distribution System	4
BE	Stegnography using Midpoint circle drawing algorithm	3

BE	Jadoo- an intelligent mirror for Effective Parenting, aid for disabled people and useful personal agent	4
BE	Medical Image Security using Genetic Algorithm	4
BE	Currency Recognition system using image processing	4
BE	College Chatbot using Question Answering System Supported by Information Extraction	4
BE	Bakemyday an Android Application	4
BE	Image Forgery Detection using Block based techniques	4
BE	Health Monitoring using Raspberry Pi	4
BE	Automatic Disease Recognition System based on Analysis of WBCs in Microscopic Blood Smear using Digital Image Processing	4
BE	Prepaid Energy Meter Billing System using Microcontroller	4
BE	Online Incremental object tracking using Extreme Learning Machine	4
BE	Design & Implementation of High Performance 8-bit Vedic multiplier	4
BE	GUI Rendered Voting Systems using Visual Cryptography	4
BE	Wireless Water Supply System using ARDUINO Controller	4
BE	Lung cancer detection and prediction by using neural network	4
BE	Design and VLSI Implementation of Single Ended Dynamic Feedback Control 8T Sub Threshold SRAM Cell	4
BE	Design and VLSI	4

	Implementation of High Speed Viterbi Decoder using CADENCE Tool	
BE	Navigation aid for Blind Deaf and Dumb	3
BE	Data Management of Milk Diary using Cloud Application	4
BE	Railway Track Security System	4
BE	Android based Smart City	4
BE	Fuel Monitoring, Vehicle Tracking and Security System	4
BE	Optical Character Recognition using Deep Learning	4
BE	Online Farming based on Embedded Systems and Wireless Sensor Networks	4
BE	IoT based Smart Voting System	4
BE	Flash over study of different types of insulator	4
BE	Identification of vulnerable branches of power system using relative electrical distance approach	4
BE	Digital IC tester using AURDINO	4
BE	Comparison of specific energy consumption at two dairies and suggestions for electrical energy	4
BE	Smart ration Distribution System	4
BE	Substation monitoring and control using GSM modem	4
BE	Electric lineman protection using password based circuit breaker	4
BE	Automation Power correction using IOT	4
BE	Analysis of electrical energy T&D loss system to improve its performance and Economics Grid conversion-A case study	4

BE	Monitoring of health status and position tracking of soldier using AURDINO	4
BE	Poly house Automation	3
MCA	Online Jewellary Management System	1
MCA	Minugu E-Commerce Online Portal	1
MCA	Application Development Of Mit App, Python & Thingspeach	1
MCA	Proxy Server Based Cloud Integrity System	1
MCA	School Finder	1
MCA	Email Marketing	1
MCA	Apsislmsv 1.0 Using Wordpress	1
MCA	Gas Cylinder Monitor	1
MCA	Indoor & Outdoor Tracking System	1
MCA	Mobile Attendance System Using Geo-Fence Technique	1
MCA	Effective Navigation System With Multi Perspective Elaboration	1
MCA	M-Learn	1
MCA	Loan Recovery System	1
MCA	Implementation Of Web Mining Utility To Search Commodity In Online Shopping	1
MCA	Implementation Of Web Mining Utility To Search Commodity In Online Shopping	1
MCA	Arfms	1
MCA	Biomedical Waste Management	1
MCA	Design And Development Of Web Application On Open Stack Cloud	1
MCA	Lyceum Information System	1
MCA	Participation Of Machine Learning In Plantation In Agriculture Using Decision Making Pattern	1
MCA	Digital Image Processing	1

		For Image Enhancement & Information Extraction	
MCA	Machine Learning Techniques To Analyze Continuous Text Document Classification	1
MCA	Diabetes Prediction Using Machine Learning	1
MCA	Collusion Proof Data Sharing	1
MCA	M-Ops	1
MCA	Career Guidance System	1
MCA	Spatial Query Search For Apartments Based On Feedback Ranking	1
MCA	Patient Privacy Distributed Cloud System	1
BE	Design and fabrication of Pneumatic aluminium Tin crusher	4
BE	Solar air heater	4
BE	Effect of pongamia shell powder filler on thermal properties of areca Phenolic composite	4
BE	Hybrid de-salination using solar energy	4
BE	Design and fabrication of citrus pulp extraction	4
BE	A Stignographic Approach to hide informatiom in audio signals using DWT	5
BE	Android based secure file sharing	4
BE	Vehicle tracking system (IoT Based)	4
BE	Multilevel information security for multimedia application	4
BE	Home automation using IoT	4
BE	Fingre Print Recognition image for minutial to image	4
BE	Design of artificial intelligence algorithms on searching	4
BE	Digital image water marking	4

BE	Blockchain based voting system	4
BE	Time series on Data Analysis	4
BE	Automation of Blood Group Identification	3
BE	Usage of steel slag for bituminous concrete	3
BE	Smart Oven	4
BE	Concrete Fabrics/Canvas	6
BE	Virtual Reality For Building Design Review	4
BE	Generalized Unified Power Quality Conditioner	4
BE	Generalized Unified Power Quality Conditioner	4
BE	Energy efficient Data communication Fault Tolerant model in heterogeneous	4
BE	Arecanut Plucker cum Sprayer	4
BE	Multipurpose Hybrid Sprayer	4
BE	Design and fabrication of MiniTrencher	4
BE	Hydrophobic sand to combat water scarcity in irrigation	4
MBA	Premium Products Sales & Distribution of Hindustan Coca-Cola Beverages Pvt. Ltd in Bangalore region	1
BE	Image Processing Based Fire Detection System	3
BE	Design, Develop and Implementation of Rose Harvesting system using Image Processing and Raspberry Pi	4
BE	Super resolution using Sparse Representation	4
BE	IOT Based Flash Flood Monitoring and Alert System	4
BE	Management & real-time surveillance of warehouse using Raspberry Pi	3
BE	Fabrication of automatic	4

	capacitor mounting machine		
BE	Power generation using Railway track	4	
BE	IOT Based Process Automation	3	
BE	Design & Fabrication of Prototype bio-reactor Plant for Bio-Ethanol Production from Samanea	2	
BE	Self-Checkout App	4	
MBA	A Study on Financial Statement Analysis of M/S Eshwarr Steel Tech Pvt. Ltd, Machenahalli Shimoga	1	
MBA	A Study on Retail Banking Products with special reference to SahyadriMahila Urban Co-op Bank Ltd., Shivamogga	1	
MBA	A Study on Financial Performance Analysis in Co-Operative Milk Unions With Special Reference To BAMUL Milk Union Limited, Bangalore	1	
MBA	A Study on Analysis of the Financial Performance by using Ratio Analysis with special reference to RSSN, Holehonnur	1	
BE	Design and fabrication of Mini trencher	4	
BE	Fabrication of Pneumatic bench vice	4	
BE	Design and fabrication of Multipurpose hybrid sprayer	4	
BE	Automated wire stripping machine	4	
BE	Design and fabrication of solar powered agricultural pesticide sprayer	4	
BE	Design and fabrication of areca nut tree sprayer and harvester machine	4	
BE	Increasing the overall efficiency of the solar and wind power generation system	3	

BE	A study on regenerative braking system	4
BE	Design of battery system and chassis of an electric vehicle	4
BE	Sentiment Analysis of Tweets in twitter using Machine Learning	3
BE	Automated fare calculation in Metro using Face recognition	2
BE	Android Travel Guide app	4
BE	A framework for Detection and Classification of Plant Leaf and Stem Diseases	4
BE	Smart Home	4
BE	Image Foregry Using SIFT Method	4
BE	Image Stegnography for Authencity of Visual Content in Social Networks	3
BE	Automated Parking Management System	4
BE	AI based Chatbot on traditional medicine and home science	4
MBA	A Study on Analysis of Financial Statement with special reference to Urban Credit Co-operative Society, Honnali	1
MBA	A Study on Readers Opinion towards The New Indian Express Newspaper, Special reference to Shivamogga city	1
MBA	A Study on Customer Expectation And Satisfaction With Special Reference to Big Bazaar, Mangalore	1
MBA	An Analysis of Housing Loan Performance in Selected Branches of Regional Office, Karnataka Bank Ltd Shivamogga	1
BE	Design and fabrication of Mini trencher	4

BE	Fabrication of automatic capacitor mounting machine	4
BE	Power generation using Railway track	4
BE	Fabrication of Pneumatic bench vice	4
BE	Design and fabrication of Multipurpose hybrid sprayer	4
BE	Automated wire stripping machine	4
BE	Design and fabrication of solar powered agricultural pesticide sprayer	4
BE	Design and fabrication of areca nut tree sprayer and harvester machine	4
BE	Increasing the overall efficiency of the solar and wind power generation system	4
BE	A study on regenerative braking system	3
BE	Design of battery system and chassis of an electric vehicle	4
BE	Investigation on influence of multi filler synergism on mechanical and thermal properties of fly ash particulate based composite	4
BE	Investigation on the physical, mechanical and thermal properties of burnt foundry sand reinforced particulate composites	4
BE	Pneumatic sheet metal shearing machine	4
BE	Pneumatic powered metal pick and place arm	4
BE	Replacement of IC engine to battery in a two wheeler bike	4
BE	Design and fabrication of Automated drilling machine	4

BE	Flower weaving machine	4
BE	Accident detection and reporting system	4
BE	Design and fabrication of Microcontroller based smart grain	4
BE	Improvement in rotary type coconut de-husking machine	4
BE	Data science recommendation system	4
BE	Railway crack detection (IoT based)	4
BE	Enhanced image security techniques using chaos and secure hash algorithms	4
BE	Audio security	4
BE	IoT based smart ambulance detector	4
BE	Stignography using LSB and compression method	3
BE	Semantic web based integrated agriculture information frame work	2
BE	Agro Security using IOT	4
BE	Analysing Wine Types and Quality	3
BE	IOT Analytics Platform	4
MBA	Women Decision Making Pattern in Purchasing of Wardrobe Products: A Study with Special Reference to Max fashion, Shimoga	1
BE	Smart Weighing Bed	5
BE	Pervious Concrete for Paver Blocks & Slabs	5
BE	Data Management of Milk Dairy using Cloud Application's	5
BE	DRUSHTI-Eye controlled HMI for disabled persons	6
BE	Agro Security	5
BE	Robo Harvester	7
BE	Quad Bike with Reverse Gear	3
BE	Smart gloves	3

BE	Railway Accident Control	4
MBA	A Study on Financial Analysis in Co-operative Societies with Special Reference to Sir M Vishveshwaraiah Co-operative Society, Shimoga	1
MBA	A Study on Financial Performance Of Aadidev Spherocast Pvt Ltd. Machenahalli ,Shimoga	1
MBA	A Study on Financial Statement Analysis with special reference to SHIMUL, Shimoga	1
MBA	A Study on Financial Performance Analysis with special reference to The Shimoga Arecanut Mandy Merchants Co- Operative Bank Ltd.	1
MBA	A Study On Financial Performance Analysis in Co-operative Societies With Special Reference to Daivajna Credit Co-operative Society Ltd., Shivamogga	1
MBA	A Study on Financial Statement Analysis of Sahyadri Multi Co-operative Society, Thirthahalli	1
MBA	A Study on Inventory Management System at M/s Nandini Hi-Tech Product Plant, Channarayapatna	1
MBA	A Study on Loan Portfolio with special reference to Saraswatha Souhardha Credit Co-operative Society Ltd., Shimoga	1
MBA	Analysis of selected FMCG Companies Stock Performance in BSE Market with Reference to Sharekhan, Shimoga	1
MBA	A Study on Profitability and Performance Evaluation Model for Cashew Processing units-a study with special	1

	reference to Mangalore Cashew Industries	
BE	Investigation on influence of multi filler synergism on mechanical and thermal properties of fly ash particulate based composite	4
MBA	A Study on Service Quality & Expectations with special reference to Apple Store, Mysore	1
MBA	A study on Importance of Retail Merchandising with special reference to SPAR hypermarket shivamogga	1
MBA	A Study on Consumer Behavior in Buying Mobile Phones with Special Reference to OPPO Mobiles	1
MBA	A study on Customer Opinion and Satisfaction towards Gemsip Food and Beverages Davengere	1
MBA	A Study on Readers opinion towards Advertisement Attractiveness in the local daily with Special Reference to Echharike Daily Newspaper, Shimoga	1
MBA	A Study on Impact of Promotional Loyalty Program in Retail Customers Brand Loyalty with Special Reference To Pantaloons Pvt. Ltd, Shimoga	1
MBA	Study on Dealers Satisfection and Expectation towards Kukkuwada Sugar Pvt Ltd Company Davanagere	1
MBA	A Study on Customer Satisfaction towards JK Tyres & Industries Ltd, Mysore	1
MBA	A Study on customer opinion about various health related insurance with Special Reference to Usha Nursing Home Hospital, Shimoga	1

MBA	A Study on Promotional Awareness of Narayana Multi Specialty Hospital, Mysuru	1
MBA	A Study on Retailer's Perception towards Desiccated Coconut Powder with Special Reference to Tiptur Market	1
MBA	Analysis of Customer Attributes and Factors Influencing in Purchase of Pickles: A Study with Special Reference to M N Pickles, Shimoga	1
MBA	A Study on Customer Satisfaction and Expectaton in delivering the sevice towards the Customer at Godrej Interio	1
MBA	A Study of Customer Satisfaction in Hotel Industry with special reference to Rice Bowl, Green View Clarks Inn, Shimoga	1
MBA	A Study of Customer Satisfaction in Hotel Industry with special reference to Rice Bowl, Green View Clarks Inn, Shimoga	1
MBA	To understand the energy drink, one litre tetra and milk based products market, competition analysis of Mangaluru city	1
MBA	A Study on Customer Expectation and Satisfaction with Reference to Metro Cash and Carry, Kanakapur road, Bangalore	1
BE	Message Security Using Armstrong Numbers And Authentication Using Colors	3
BE	Secured File Sharing In Defence Application With Data De-Duplication In Clouds.	3

BE	Bank Locker Security System Using Iot	4
BE	Home Automation Using Iot	4
BE	Smart Fisheries Implementation In Aquaculture Using Internet Of Things(Iot)	4
BE	Detection Of Pleural Effusion In Ct Scanned Images Using Image Processing Technique	4

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

The Institution implemented a formal mechanism to obtain feedback from students and different stakeholders. Feedback from different stakeholders are analyzed and appropriate measures are taken to ensure the development of students, faculty and Institution. a) Students Feedback: Normally feedback from the students is taken by the faculty members on subjects taught by them at the end of the semester. Faculty analyses and takes appropriate measures. Any serious grievances will be communicated to the University through proper channel. Institute also has a mechanism to collect feedback of students regarding the faculty. Such feedback will be taken at the end of the semester. Students feedback will be communicated individual faculties to ensure implement required changes. b) Teachers Feedback: Teacher's feedback is obtained in departmental meetings and faculties meeting with principal. This feedback is related to issues such as university curriculum, students' performance, student's grievances etc. Teacher's feedback about the working of the principal will be collected annually. Teacher's feedback will be conveyed to management to take correctives actions on priority basis. c) Employers Feedback: Feedback from employers collected during the placement drive. Institute also collects employer's feedback during student's project exhibition, industry visits, guest lecturers / workshops and seminars. Feedback is collected know the industry expectation and everchanging environment of the industry. d) Alumni Feedback: Twice in a year institute organizes the alumni meeting in the campus and in Bangalore. During the alumni meeting, institute collects their feedback about the curriculum, changing industry norms, industry expectation. e) Parent Feedback: The parents' meet conducted by semester every semester in each department separately. During the parents institute collects feedback about the institute facilities, student's grievances, and other academic issues. Feedback will be collected in both written and oral forms.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	BE	831	708	708
Mtech	Mtech	145	40	40
MCA	MCA	96	61	61
MBA	MBA	120	120	120
[View File]()				

2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	708	221	159	28	187

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Toolsand resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
185	99	0	63	1	3

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring system exists in the institute to ensure overall development of the students, which includes personal, professional, career development. The system functions as under: • Faculty members are designated as mentors at their program level. • Each faculty member is assigned 15 20 students to mentor. • The faculty mentor regularly interacts with the students assigned to him/her and guides them with respect to their academic issues. • The mentor reviews the students' academic performance, after each Internal Assessment (IA) test and also at the end of the semester, and gives detailed feedback to concerned student. • Wherever necessary,the mentor, in consultation with the HoD and the concerned Course Instructor, arranges additional tutorial or remedial classes. • Similarly, special classes are arranged for 'slow learners" in courses as required. • Likewise, whenever needed, the mentorarranges remedial classes for higher semester students. As part of mentoring support exclusively for 1st year students: • an exhaustive orientation program is arranged to give them an idea about the course and to bridge the gap between 2 level and the engineering course they have joined • a threeweek Induction program is conductedas per VTU CBCS Regulations2018, extensively coveringtopics like environmental awareness, sports, yoga physical fitness, art culture, illeffects of ragging, psychology, communication skills and so on • Oneweek bridge course is arranged for 1st year MBA students by MBA department to ease students in courses like Accounting and Business Analytics, with the help of subject experts.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3006	185	1:16

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
4	4	0	4	2

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Mr. Benak Patel M P	Assistant Professor	Fellowship, Youth IGF, India,
2019	Mr. Prashanth Ankalkoti	Assistant Professor	Mircrosoft Certified Innovative Educator Trainer
2019	Mr. Prashanth Ankalkoti	Assistant Professor	Nattional Geographic Certified Educator 2019

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
No Data Entered/Not Applicable !!!				

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Continuous Internal Evaluation policy is framed on the process of internal semester question paper setting evaluation, Project and Seminar evaluation based on the Visvesvaraya Technological University (VTU) guidelines and Outcome based Education System. In addition to this Preparatory Examination for first semester students was initiated by IQAC to improve the performance of the students. Along with this evaluation rubrics for project work and seminar was designed and approved by IQAC. The following steps were initiated to ensure uniform CIE policy across the institute: A. Process for internal semester question paper setting evaluation 1. Test schedule is announced in the institute calendar of events, to be held in 6th, 10th and 14th week respectively. 2. Common question paper pattern is followed across the institute 3. Question paper is set in line with Revised Bloom's Taxonomy levels. Questions vary from RBT Level 1to 5 (Remember, Understand, Apply, Analyze and Evaluate). 4. Question paper scrutiny committee is formed for different streams and scrutinizes the question papers along with the scheme and also ensures that all questions are properly mapped to respective COs and RBT levels are indicated. 5. Scheme and solution are made available to the students in department library and it is also discussed in the class. B. Process for monitoring and evaluation of Project Works 1. Student should maintain the project diary and update the details like theoretical details, design, component details, circuit diagram, working, results details and get the

signature of the guide and the coordinator. 2. Form the Project Evaluation Committee comprising of: One senior faculty (Professor or Associate Professor) 3 Asst. Professors Project Coordinator Guide 3. There will be three Project reviews: a. First Project review: Seventh Week b. Second Project review: Fourteenth Week c. Third Project View: Project Demo: Sixteenth Week 4. The Internal Assessment of the project work should be evaluated as follows: a. First Project review: 20 Marks b. Second Project review:20 Marks c. Third Project View: Project Demo:30 Marks d. Project Report Evaluation by Guide overall assessment by the guide: 30 Marks 5. Project evaluation rubrics designed by IQAC and disseminated to departments using which the evaluation is done across the institution. C. Assessment process for Technical Seminar 1. Students are asked to select a suitable technical seminar topic on recent development / research / advanced techniques by referring to the peer reviewed journals and get the approval for the topic selected by the supervisors assigned to the students. 2. The students are required to present the selected topic using a power point presentation 3. During the presentation, the panel of evaluators will give suitable suggestions/recommendations to improve the quality of contents and presentation. 4. Students would submit a technical seminar report incorporating the suggestions made in the presentation. 5. Evaluation of marks is based on the rubrics formed at the department level and approved by IQAC. D. Evaluation of Technical English Course The Internal Assessment of the course Technical English in I/II semester is done using the online tool E Box.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Institution calendar of events is designed in line with the VTU calendar of events. Department calendar of events is prepared based on institution calendar of events. It consists of the activities planned for the semester which includes internal test dates, display of internal marks, Mentor Meetings, Parents Meet, conduction of events like organizing guest lectures, conferences etc. 1. Test schedule is announced in the institute calendar of events, to be held in 6th, 10th and 14th week respectively. 2. Project Execution Timeline is designed and followed as below: In 7th Semester, • 10th- 12th week : Students are invited to prepare their batch and get it registered with the project coordinator of the department. • 14th- 16th week: Guide will be allotted to respective batches, • Semester end: Students are instructed to submit the synopsis of their project with the concern of their respective guide, Project Synopsis Presentation, reviewed by a Project Evaluation Committee consisting of Project coordinator, Head of the department and concerned guide. In 8th Semester • Seventh week: Students are instructed to give a PowerPoint presentation for the project. (Evaluation phase I by a team of faculty) • Fourteenth week: Students are instructed to give a PowerPoint presentation for the project and submit the first two chapters of the project report. (Evaluation phase II by a team of faculty) • Sixteenth week: Students are instructed to submit complete project report with university compliance and give a PowerPoint presentation for the project. (Evaluation phase – III, by a team of faculty), The marks for the project work is announced and processed according to the university regulations.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

http://jnnce.ac.in/jnndemo/outcome.html

2.6.2 – Pass percentage of students

Programme	Programme	Programme	Number of	Number of	Pass Percentage

Code	Name	Specialization	students appeared in the final year examination	students passed in final year examination	
No Data Entered/Not Applicable !!!					

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://jnnce.ac.in/sss/displaygraphs.php

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	3	VGST, Dept. of IT,BT and ST, Govt. of Karnataka	30	10
Major Projects	1	Vision group on Science and Technology, Govt.of Karnataka	5	5
Projects sponsored by the University	2	JNNRIC Research grant	4.85	0
Students Research Projects (Other than compulsory by the University)	1	NewGen IEDC	15.75	1

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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Workshop on Intellectual Property Rights (IPR) for Start Ups	CIE	14/02/2019
Session on Intellectual Property Rights (IPR)	Basic Sciences	20/08/2018
Workshop on Intellectual Property Rights (IPR) for Start Ups	CIE	04/10/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Eco Friendly House	Dr. L K Sreepathi	District Commissioners Office, Shivamogga	18/06/2019	Go Green Initiative

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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
JNNCE, Shivamogga	NAIN	KBITS, Bangalore	Ekathva Innovations	Embedded Systems	01/08/2018

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
No Data Entered/Not Applicable !!!		

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Department of Computer Science	2
Department of Mechanical Engineering	1
Department of MCA	1
Department of Management Studies	5

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Department of Computer Science	17	3.13
International	Department of Civil Engineering	4	0
International	Department of Mechanical Engineering	15	4.66
International	Department of Electrical Electronics	4	1.8
International	Department of Electronics and Communication	6	3.33

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
No Data Entered/Not Applicable !!!	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
A Novel and Efficient Perceptual Image Encryption Based on Knight Moves and Genetic Operations	Jalesh Kumar, S Nirmala	Springer, Singapore	2018	1	JNNCE,Shimoga	1
Random Selection of Crossover Operation with Mutation for Image Encryption --A New Approach	Jalesh Kumar, S Nirmala	Springer, Singapore	2018	1	JNNCE,Shimoga	1
Intelligent multiple watermarking schemes for the authentication and tamper recovery of information in document image	KR Chetan, S Nirmala	Springer, Singapore	2018	1	JNNCE, Shimoga	1

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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A Novel and Efficient Perceptual Image Encryption	Jalesh Kumar, S Nirmala	Springer, Singapore	2018	1	1	JNNCE, Shivamogga

Based on Knight Moves and Genetic Operations						
Random Selection of Crossover Operation with Mutation for Image Encryption --A New Approach	Jalesh Kumar, S Nirmala	Springer, Singapore	2018	1	1	JNNCE, Shivamogga
Intelligent multiple watermarking schemes for the authentication and tamper recovery of information in document image	KR Chetan, S Nirmala	Springer, Singapore	2018	1	1	JNNCE, Shivamogga
Group diffie hellman key exchange algorithm based secure group communication	Sathyanarayana S V	Proceedings of the 2017 3rd International Conference on Applied and Theoretical Computing and Communication Technology, iCATccT 2017	2018	8	0	JNNCE, Shivamogga
Lung Parenchyma Segmentation: Fully Automated and Accurate Approach for Thoracic CT Scan Images	Pramod Kumar S	IETE Journal of Research	2018	2	2	SSIT, Tumkur

Biot number effect on MHD flow and heat transfer of nanofluid with suspended dust particles in the presence of nonlinear thermal radiation and nonuniform heat source/sink	Krishnamurthy M R	Acta et Commentationes Universitatis Tartuensis de Mathematica	2018	7	1	JNNCE, Shivamogga

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	61	0	0
Presented papers	15	0	0	0
Resource persons	0	10	0	0

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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Training program on Bio Fuel Awareness	BRIDC, JNNCE, Shivamogga	3	150
Awareness Program on Bio Fuel	BRIDC, JNNCE, Shivamogga	3	1940
Tree Plantation	NSS, JNNCE, Shivamogga	20	625
Blood Donation Camp	NSS, JNNCE, Shivamogga	10	600
Kodagu Releif Fund	NSS, JNNCE, Shivamogga	2	100
Parisara Jagruthi Dinacharane	Chiranthana Green Technology Centre,	25	300

	JNNCE, Shivamogga		
Swatch Bharath Abhiyan	NSS, JNNCE, Shivamogga	20	600
DST INSPIRE Internship Camp	Chiranthana Green Technology Centre, JNNCE, Shivamogga	25	150
NSS Camp	NSS, JNNCE, Shivamogga	3	100
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 3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!			
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 3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
supporting activities at flood affected Areas	NSS	Helping and supporting activites at flood affected parts of Shivamogga	2	10
Swachh Bharath	NSS	One Week NSS Farm: 20 – 26, Feb. 2019Camp at Govt. Higher Primary School, Hasoodi	2	15
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3.5 – Collaborations

 3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
nil	0	0	0
No file uploaded.			

 3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Undertaking	CISCORVCE	05/04/2019	05/04/2019	JNNCE,CISCO

collaborativ e projects in IoT area				and RVCE

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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Sugamya Academy for Excellence (SAFE)	29/01/2019	Skill enhancement programees for faculty and students	600
ODC Universal Technological Solutions Pvt Ltd. India	14/02/2019	Provide Software Automation Platform for testing process	270
Lekha Wireless Solutions Pvt. Ltd.	06/03/2019	Help ECE TCE Students for live industry projects	500
CISCORVCE, Bengaluru	05/04/2019	Trainig Undertaking collabrative projects in IoT area	360
Tequed Labs Pvt. Ltd.	03/06/2019	Conducting FDPs/Product Development and Technology Foundation Courses	360

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
57503000	51603233

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments	Newly Added

	purchased (Greater than 1-0 lakh) during the current year		
	Classrooms with Wi-Fi OR LAN		Newly Added

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
E Lib I Next	Fully	Web Version	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	108181	29333347	5306	2827627	113487	32160974
Reference Books	5928	2346184	33	15709	5961	2361893
Weeding (hard & soft)	774	130052	5887	501177	6661	631229
e-Books	0	0	21113	0	21113	0
e-Journals	0	0	7369	0	7369	0
CD & Video	42	0	0	0	42	0
Library Automation	1	168800	0	17000	1	185800
Journals	42	65555	0	34445	42	100000
[View File](#)						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platformon which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	973	20	1	1	0	1	11	60	0
Added	92	3	0	0	0	0	0	140	0
Total	1065	23	1	1	0	1	11	200	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

200 MBPS/ GBPS

4.3.3 – Facility for e-content	
Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
No Data Entered/Not Applicable !!!	

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
29003000	26064248	28500000	21444779

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Laboratory: All laboratories are well equipped with LCD projectors and well maintained both for syllabus oriented practical's and research activities. Each laboratory is maintained by dedicated lab instructor/system administrator. Provision is made in annual budget for procurement, upgradation, deployment and maintenance of the laboratory equipments for each department in the institution. The process of calibration and precision measures are handled by the expert agencies to upkeep all the electronics equipment. Timely upgradation of Laboratory equipments are carried out in the institution to maintain scientific temperament. Library: The library advisory committee will conduct meeting twice or thrice a year and discuss demand book list, Budgetary provisions, approval book purchase, journals, ejournals and furniture and procurement. Utilization of library services is ensured through user education program to the newly admitted students, working hours, digital library, book bank facility, reprographic facility, updating by inclusion of reference materials, question paper bank, DELNET services and extending library working hours. EJournals and Books are available through VTU Consortium. Independent library website is available (http://libinfo.jnnce.ac.in/). Sports complex: JNNCE sports department aims at allround development of the student's personality through sports activities. It has required infrastructure to enhance the sports activities like indoor outdoor sports facility. The sports department actively organises Inter department sports activities Annual Sports Day sports events. State of art sports facilities are provided that make the department in hosting selection, training and practice sessions for college teams. JNNCE Turf cricket ground and Mud Cricket ground facilities are provided for utilization based availability. Computers: The Institution has a comprehensive IT Policy which is governed by the IT Planning and Monitoring Committee comprising of the Head of the Institution, HOD of CS/IS/MCA, Network administrator, System analysts and programmers. The Committee plans all the IT requirements of the Institution and prepare a list of requirements and forward it to management. The purchases are made after negotiations with companies by the purchase committee. All the computer systems in the campus are regularly monitored by the System Administrator and maintenance staff under AMC clause. WiFi technology with user level Authentication using UTM firewall is being implemented. High end Access points with more than 70 Users simultaneous login to single access point. The Leased Line is available with 200 Mbps (1:1 Ratio) with unlimited data usage. Classrooms: The Institution has sufficient number of wellfurnished, well ventilated, spacious classrooms with LCD projectors for conducting theory classes and area is as per norms. Exclusive language lab with audio, video facility, separate departmental library, EDUSAT facility is available. Each department has a separate seminar hall equipped with LCD,

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
No Data Entered/Not Applicable !!!			
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Softskill Lab	01/08/2018	636	Condura Education for Research
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
No Data Entered/Not Applicable !!!					
No file uploaded.					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
3	3	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
CRANES SOFTWARE	120	4	TCS	90	5
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme

			admitted to
enrolling into higher education			

<div align="center"><strong style="color:red">No Data Entered/Not Applicable !!!</div>

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	4

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
South zone inter university cricket tournamenr for men (14th to 24th January 2019)	National	1400
VTU Central Karnataka zone Cricket tournament for Men (12th to 15th March 2019)	Zonal	225
VTU Central Karnataka zone Volleyball tournament for Men (9th to 10th March 2019)	Zonal	192
VTU Central Karnataka zone Handball tournament for Men (2nd 3rd April 2019)	Zonal	70

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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
			No Data Entered/Not Applicable !!!			

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student participation in various academic and administrative committees of the Institute is nurtured and encouraged to ensure overall development. Internal Quality Assurance Cell (IQAC) formed on the guidelines of NAAC comprises the stakeholders with bonafide student representation. The representation is made by one undergraduate student and one postgraduate student. The professional bodies like Compute Society of India (CSI), Institution of Engineers (India) – JNNCE Chapter, The Institution of Electronics and Telecommunication Engineers (IETE), IEEE JNNCE Student Chapter are governed by the bodies which are represented by students. Each program in the Institute is having a Technical Association responsible for conducting the technical activities for the benefit

of students. The activities of these associations are planned and executed by student representatives from each class under the supervision of a faculty advisor. The Placement Advisory board in assisting students to build their careers is also represented by two students along with renowned personalities from Academia and Industry. The Cultural Team is responsible for organizing and participating in the cultural activities, in which the activities are planned and executed by the members of Cultural Team constituted with the representation of staff and students of the Institute. The selection of the student representatives is mainly based on the performance and contribution in the different art forms. The Sports Committee which is responsible for conduction of various sports activities and encourages the students to take part in sports competitions is also constituted with student fraternity. The different sports team captains are by default will be the members of Sports Committee.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

JNNCE Alumni Association was registered during the year 201819 with the Registration No. DRSH/SOR/74/201819. The objective of the association is to build strong alumni network and connect the students of JNNCE with alumni to get academic and placement related guidance. It also aims at building common interest groups and provide a forum of discussion to facilitate the growth of the alumni and the institute.

5.4.2 – No. of enrolled Alumni:

2317

5.4.3 – Alumni contribution during the year (in Rupees) :

15000

5.4.4 – Meetings/activities organized by Alumni Association :

1. Alumni Meet – Bengaluru Branch Inauguration – 3rd Feb 2019 @ Bengaluru 2. Global Alumni Meet 2019 – 18th May 2019 @ Shivamogga. 3. Alumni Association Meeting held on with EC Members – on 28.11.2018 4. Alumni Association Meeting held on with EC Members on 21.01.2019 5. Alumni Association Meeting held on with EC Members – on 11.02.2019 6. Alumni Association Meeting held on with EC Members – on 13.04.2019 7. Alumni Association Meeting held on with EC Members – on 17.05.2019 8. Alumni Association Meeting held on with EC Members – on 14.09.2019

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

• JNNCE maintains an organization structure where the NES Management is the supreme authority with the Principal of the Institute as the highest academic authority responsible for the academic processes on the campus. • Key action plans of the institute are discussed and finalized in consultation with the Head of the Departments, in HoDs' Meetings held periodically • Minutes of the Meetings are drawn and circulated among the HoDs for actions proposed. • HoDs, in turn, share the decisions taken at the HoDs Meetings, as above, among their respective staff members in the Department Meetings held periodically and ensure the implementation of the same, individually and/or through departmental subcommittees comprising of teaching and nonteaching staff members. •

Actiontaken reports are promptly submitted to the Principal by the concerned HoDs and also placed before ensuing HoDs' Meetings. • HoDs are sanctioned departmental budgets for various academic and administrative functions based on HoDs' estimates of expenditure for the ensuing academic year. • HoD's have operational autonomy at their program level to conduct these activities, as per academic calendar of the institute, utilizing the budgets sanctioned and reporting the same for accounting and audit. • The wardens take administrative decisions as regards hostels in consultation with the Principal and Hostel Advisory Committee, and ratified by the management. • Various committees with faculty / staff as members are constituted to undertake different administrative decisions and actions: (i) Internal Quality Assurance Cell (IQAC) (ii) Academic Monitoring Committee (AMC) (iii) AntiSexual Harassment Cell (AISHC) (iv) Grievance Redressal Cell (v) NAAC committee (vi) NBA committee (vii) Student Counseling Cell Practice2 Delegation of Financial Powers National Education Society has delegated financial powers as follows: DELEGATION OF FINANCIAL POWERS PRINCIPAL VICE PRINCIPAL HoD Upto Rs. 50,000/ Upto Rs.25,000 Upto Rs.5000 including imprest amount Purposes for which financial powers are permitted: • Principal : Recurring/Daytoday office and administrative expenses • Vice Principal : Recurring/Daytoday office and administrative expenses • HoDs : Daytoday office, administrative and petty expenses, department meeting expenses, lab consumables, etc.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	Curriculum Development is important in success of any institution. Since we are affiliated to VTU, Institution is follows the curriculum prescribed by the VTU. About 100 faculties of the institute are having experience of more than 10 year of experience in teaching. Senior faculties involve in curriculum revision efforts VTU. Many of our faculties served as members of the Board of Studies and Board of Examiners of VTU. Member of the different academic bodies collect curriculum feedback from the students, alumni, faculties and industry experts and consolidated suggestions are communicated to the BOS of the VTU.
Teaching and Learning	The academic calendar based on the VTU academic activities is prepared every semester which gives information about the conduction of test etc. Based upon this each department prepares the departmental calendar as per the schedule tests are conducted by the concerned faculty members which is monitored by the academic committee. The subject allotment meeting is separately held in every department at

	the end of previous semester so as to enable the faculties to know the subject they are supposed to handle and prepare for the lectures in advance. Three tests are conducted as per the academic calendar. Tests are evaluated with scheme of valuation and test performance made known to the students. Average of best two tests are taken as final assessment marks.
Examination and Evaluation	Three tests are conducted as per the academic calendar. Tests are evaluated with the scheme of valuation and test performance made known to students. Average of the three tests is taken as the final internal assessment marks. Seminars/ assignments and Viva Voce are the part of internal assessment for CBCS scheme students. Tests are conducted similar to the university examination In addition to room invigilators, a flying squad comprising of senior faculty members monitors the conduct of each test. The seating arrangement, question paper pattern etc. are as per university norms. The overall development of students with weightage for behavioral aspects, independent learning, and proficiency in communication are also assessed when allotting marks in Seminar and Project Work. The assessment of the seminar and project work is done using RUBRICS.
Research and Development	Our Faculty and students are pursuing research in emerging areas to solve the societal problems. The faculty have presented and published more than 300 papers in national and international seminars, conferences and journals in the last five years. Funded Research projects worth more than Rs. 75 Lakhs have been carried out in the institute in this year. The institution has organized International National Conference/Seminars, FDPs, Workshops on different academic and intellectual themes. To motivate innovationbased research among faculty and students, JNNCE Research and Innovation Centre in JNNCE (JNNRIC) started in 201718 has been functioning. So for 29 candidates obtained Ph.D. degrees from JNNCE under Research Centre of VTU. To encourage research and publication, the institute had launched its own online biannual 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 Sixth issue is now under process. 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.
Library, ICT and Physical Infrastructure / Instrumentation	Library The institute 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 68 National International Journals with ejournals through VTU Consortium and DELNET. The Library has been computerized with eLib iNext Web based software. Also, institute is identified as NPTL local chapter. As library is fully automated (OPAC) for searching of books journals separate online public access catalogue is provided near circulation section. Separate library website is hosted which contains detail information about library collection and services. The same information is in institution website. ICT Institute has provided faculty cabin with internet facility for Faculty members are for preparation of teaching/learning materials in their respective departments. In the library, Institute provides online resources which can be used by the faculties and students. Seminar halls and Auditoriums are provided with LCD projectors, computer systems and internet facility. More than 80 per cent of the classrooms and laboratories are equipped with ICT Facility LCD projectors. The faculties make use of Open office, and Microsoft office to prepare teaching materials. Physical Infrastructure / Instrumentation • Developing and maintaining stateoftheart infrastructure in the campus – for administration, teachinglearning, research, consultancy, campusliving, and welfare of all the constituents • Developing transparent and responsible system for identifying and indenting departmental needs, for nonrecurring capital expenditure budgeting, purchase/acquisition, maintenance and disposal of capital assets • Ensuring

		optimum utilization of classrooms, laboratories, workshops, equipments, vehicles, open spaces, playgrounds, parking space etc and checking wasteful expenditure, idle capacities, duplication, stockfiling etc • Developing and maintaining proper landscaping, effluenttreatment, safety security, vigilance surveillance on the campus
	Human Resource Management	• The institute is following AICTE / VTU norms and Karnataka State Civil Service Rules (KCSR) for its administrative purpose. • The NES management constituted a committee during 201718 to draft the human resources manual for the institution • The manual has the policy and procedure for recruitment, duties and responsibilities of staff, salary and incentives, benefits, leave policy, promotional procedures and service maintenance of employees and is effective from 1st June 2018. • Annual Appraisal Review – The Head of the Institution along with the Head of the department conducts a annual review of the performance of the faculty • Student Feedback – Has an online Feedback mechanism • Faculty are encouraged enhance their research acumen by providing facilities to pursue higher studies through QIP and by providing funds for the most appropriate research proposal through JNNRIC external funding agencies
	Industry Interaction / 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
	Admission of Students	Admission process is totally transparent as per AICTE/ VTU/ State Govt. policies. The management quota

seats are filled on merit basis for those students who possess a rank of any one entrance exam approved by Govt. All the admissions made since inception of the college are approved by competent authorities without any legal hazards. Following are the steps taken by institute in case of Admision of the Students: • Admission notification and the details of the courses available in the institute is published in all leading regional daily newspapers in English and Kannada language. • The well designed prospectus which gives the information on the courses and the facilities available in the institute. • The details provided in the prospectus and admission details are given on the Website http://www.jnnce.ac.in. The website is updated regularly • Parents Students Interaction programme on Admissions: Every year an interaction programme for the aspiring students and parents is organized to share about admission process of institute through CET, COMEDK, PGCET, KMAT and management quota. • Participating in Education Fair. • Participating in COMEDK Admission Process. • Distribute handouts containing details of the institution to the candidates at various CET/ COMEDK/PGCET/KMAT examination centres.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Planning and Development	JNNCE uses DHI(Heraizen's Digital Automation Platform for education) which helps all stakeholders to get the information and data at the click of a button. The DHI suite comprises of • Academics Automation module • Administration Automation module • Accreditation Readiness engine Automation Platform used to develop the lesson plan, Students attendance, Designing of Institute academic calendars etc.
Administration	Using DHI (Heraizen's Digital Automation Platform for education) institute is managing the students attendance, faculty feedback, goal setting, faculty profile development, and faculty leave system. Most of the administrative activities are carried out through automation software.

Finance and Accounts	For the purpose of the finance and accounts institute is using customized tally package. Overall finance and accounting activities are carried out using tally software. External and internal auditing of the accounts carried through the system.
Student Admission and Support	For the purpose of the students admission and support Institute is using the customized tally package. During the admission students data will entered in the system. This software package is aligned with office automation software.
Examination	Examination activities carried out using office automation system. Faculty and student's allotment, room allotment and internal schedule, internal mark entries are carried out using office automation software.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
No Data Entered/Not Applicable !!!				
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	International Conference on Marketing in Digital World: Trends, Opportunities Challenges		04/01/2019	05/01/2019	60	0
2018	International Conference on		27/09/2018	28/09/2018	30	0

	2018	Emerging Sustainable Trends in Civil Engineering					
	2018	One Week National Level Workshop on Construction Project Management		29/08/2018	02/09/2018	85	0
	2018	two days lecture workshop on Emerging trend in NanoScience and NanoTechnology		07/09/2018	08/09/2018	165	0
	2018	An Interactive Session on Importance of NAAC in Engineering Education Institutes		13/10/2018	13/10/2018	35	0
	2018	Workshop on "Research Avenues in Genomics"		17/12/2018	21/12/2018	40	0
	2019	Two Week Faculty Development Program on "Paradigm Shift in Higher Education Teaching: Vision 2030		08/07/2019	19/07/2019	32	0
	2018	Oneday Guest Lecture Series on " Smart Antennas and Electromagnetics		20/12/2018	30/12/2018	40	0

2019	Organized One week National Level Workshop on "Differential Geometry and its Applications in Engineering Fields",		21/01/2019	25/01/2019	60	0
2019	One Week National Level Workshop on Material Characterization.		28/01/2019	01/02/2019	40	0
2019	One week National level workshop on Long term evolution Advanced and its research challenges		28/01/2019	01/02/2019	40	0
2019	One day workshop on "Induction Hardening		13/03/2019	13/03/2019	250	0
2018	10 day works shop on laboratory conduction for technical staff		17/12/2018	27/12/2018	25	0
2018	Workshop on "Internet of Things for Remote Unconnected Industries using open WSN Tinterop		15/09/2018	16/09/2018	18	0

						tools"
2019	National level workshop on Recent Trends in Multimedia processing and wireless sensor Networks		15/07/2019	27/07/2019	29	0
2019	NA	Skill Development Programme for Nonteaching and Technical Staff	08/07/2019	12/07/2019	0	42
2019	NA	Skill Development Programme for the Staff of Hostel Transport Department	24/07/2019	26/07/2019	0	76

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
National Level Workshop on "Differential Geometry and its Applications in Engineering Fields	10	21/01/2019	25/01/2019	5
Two days science Academies Lecture workshop on "Emerging trends Nanoscience and Nanotechnology	9	07/09/2018	08/09/2018	2
One day faculty development programme on	7	29/04/2019	29/04/2019	1

"Applications of Mathematics in Engineering and Science				
Regional workshop on "Research Based Pedagogical Tools [RBPTs],"	3	03/06/2019	05/06/2019	3
Three weeks "University and PG College MSc Teachers Training Program	1	16/06/2019	06/07/2019	18
One week Workshop on DSP and Image Processing using Machine Learning One Week National level Workshop on "Advances in Satellite Communications and Networking"	16	08/01/2019	12/01/2019	5
Workshop On "Machine learning technique and tools	2	17/12/2018	21/12/2018	5
One week Faculty skill enhancement program "C programing using Ebox tools"	3	04/02/2019	09/02/2019	6
NPTEL online certificate on Big data computing	1	01/02/2019	30/04/2019	72
one week workshop on Material Charac terization	10	28/01/2019	01/02/2019	5
Research avenues in Genomics	23	20/10/2018	21/12/2018	5
Workshop on Data science classification practicing with	2	16/07/2019	21/07/2019	6

python and MATLAB				
FDP on Problem solving Using C and basic Data Structure using Ebox	5	04/02/2019	09/02/2019	6
FDP on Digital Technologies	1	18/03/2019	19/03/2019	2
AICTE Sponsored Two Week Faculty Development Program on "Harnessing Outcome Based Teaching –Learning Deliverables for the Enhancement of Accountability in Contemporary EducationA Holistic Perspective",1	1	12/06/2019	25/06/2019	14
Workshop On Digital Image Processing	1	27/10/2018	28/10/2018	2
Workshop on Advances in Soil Dynamics and Eartquake Engineering	1	21/02/2019	26/02/2019	5
Training Programme on " Traffic Systems Modeling and Simulation	1	21/06/2019	22/06/2019	2
Two Week Faculty Development Program on "Paradigm Shift in Higher Education Teaching: Vision 2030	29	08/07/2019	19/07/2019	12
National level workshop on Recent Trends in Multimedia processing and wireless sensor	25	15/07/2019	27/07/2019	10

Networks				

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
1	0	0	2

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• JNNCE is extending Gratuity of Rs.20,00,000/ (maximum amount) to all its employees as per Govt of India notification. Refer JNNCE Human Resource Manual for more details. • Under the EPF scheme, 12 of an employees monthly salary dearness allowance is deducted towards EPF. The employer also contributes 12 which is split into 8.67 (towards Employees Pension Scheme or EPS) and 3.3 which goes towards EPF. • ESI Medical Benefits. Employees State Insurance or ESI is a comprehensive social security program for workers in the event of medical contingencies, such as sickness, maternity, death or disablement due to employment injury and occupational disease. • JNNCE is extending ESI facility for all the employees earning salary less than Rs. 21,000/ per month. • All JNNCE Employees are covered under Group Personal Accident Insurance with Sum Assured of Rs.600000/, Accidental Hospitalization expenses of (Minimum 24 hrs In hospitalization) up to Rs 100,000/ and Rs 20,000 / for OPD Treatment or actual claims whichever is lower. • Lady	• JNNCE is extending Gratuity of Rs.20,00,000/ (maximum amount) to all its employees as per Govt of India notification. Refer JNNCE Human Resource Manual for more details. • Under the EPF scheme, 12 of an employees monthly salary dearness allowance is deducted towards EPF. The employer also contributes 12 which is split into 8.67 (towards Employees Pension Scheme or EPS) and 3.3 which goes towards EPF. • ESI Medical Benefits. Employees State Insurance or ESI is a comprehensive social security program for workers in the event of medical contingencies, such as sickness, maternity, death or disablement due to employment injury and occupational disease. • JNNCE is extending ESI facility for all the employees earning salary less than Rs. 21,000/ per month. • All JNNCE Employees are covered under Group Personal Accident Insurance with Sum Assured of Rs.600000/, Accidental Hospitalization expenses of (Minimum 24 hrs In hospitalization) up to Rs 100,000/ and Rs 20,000 / for OPD Treatment or actual claims whichever is lower. • Lady	• Student and One earning parent of student are covered under GROUP PERSONAL ACCIDENT POLICY from Tata AIG General Insurance Company Limited in 201819 • Mentoring • Students Clubs • The Management – National Education Society is encouraging meritorious students byinstituting Cash Awards for excelling in the University examinations. These awards are based on the aggregate score in the academic year as follows. • Cash Award of Rs. 25,000/ for securing SGPA of 9.5 and above • Cash Award of Rs. 5,000/ for securing SGPA of 9.0 to 9.5 • Cash Award of Rs. 1000/ for securing SGPA of 8.5 to 8.99

employees can avail 180 days of maternity leave with full salary and the interval between two such leave shall not exceed 3 years and shall not exceed two occasions during the service period of the employee. • Male employees can avail 7 days of paternity leave with full salary and the interval between two such leave shall not exceed 3 years and shall not exceed two occasions during the service period of the employee. • JNNCE is providing Advance Salary benefit to all employees and this policy enables regular employees to avail advance salary facility for specific reason such as Medical exigency, Marriage, Children Education or any other reason that the NES management will take a final decision. Upper limit for Advance Salary benefit is 3 month salary or Rs.50000/ whichever is lower. This Advance Salary shall be recovered in 20 monthly installments.	employees can avail 180 days of maternity leave with full salary and the interval between two such leave shall not exceed 3 years and shall not exceed two occasions during the service period of the employee. • Male employees can avail 7 days of paternity leave with full salary and the interval between two such leave shall not exceed 3 years and shall not exceed two occasions during the service period of the employee. • JNNCE is providing Advance Salary benefit to all employees and this policy enables regular employees to avail advance salary facility for specific reason such as Medical exigency, Marriage, Children Education or any other reason that the NES management will take a final decision. Upper limit for Advance Salary benefit is 3 month salary or Rs.50000/ whichever is lower. This Advance Salary shall be recovered in 20 monthly installments.

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

External Audit The institute has ensured financial audits are taken up by the chartered accountants at the end of each financial year. The auditing has not indicated any major auditing remarks. The management has created a system to ensure that cash book is checked on timely basis. Internal Audit: Finance and account documents and procedures are audited but institute internal auditor and even by the NES Internal financial auditor.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
nil	0	NA
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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No		Yes	Academic Monitoring Committee (AMC)
Administrative	No		Yes	Internal Quality Assurance Cell (IQAC)

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Feedback in formulation and finalization of Institution vision and mission and quality policy Feedback in formulation and finalization of department vision and mission and quality policy Feedback on Academic, institution facility which help in furher improvement

6.5.3 – Development programmes for support staff (at least three)

10 days workshop on laboratory conduction for technical staff Awareness programme on NAAC and NBA by external experts Skill Development Programme for Nonteaching and Technical Staff Skill Development Programme for the Staff of Hostel Transport Department

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Obtained UGC 2f, 12B Certification. Outcome base education System implemented and practiced. All the seven programs have applied for NBA Acreditation and Visit is scheduled during Oct.2019 and Nov. 2019 Alumni Association formed and registered. Common Academic and evaluation polices implemented Academic Administrative Audit is initiated

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Quality initiatives in Teaching Learning Process	30/08/2018	01/09/2018	31/07/2019	3006
2018	Quality initiatives in organizing events	30/08/2018	01/09/2018	31/07/2019	200
2018	Domain skill	25/09/2018	01/10/2018	31/07/2019	2535

	based placement training				
2018	Centralized Internal Assessment conduction for First Year UG course	25/09/2018	01/10/2018	31/07/2019	625
2018	Preparatory Examination for First Year UG course	25/09/2018	01/10/2018	31/07/2019	625
2018	Academic Adm inistrative Audit – AAA	30/10/2018	01/11/2018	19/06/2019	188
2018	Upgrading domain skill set of students and improving em ployability – A model for implemen tation	30/10/2018	01/11/2018	31/07/2019	2535
2018	Alumni Meet at Bangalore	30/10/2018	01/11/2018	03/02/2019	300
2018	Karnataka Tech Entrepr eneurship Summit to be organised by JNNCE (Theme : Building Startup Echo System and E ntrepreneurs hip Spirit)	27/11/2018	14/02/2019	16/02/2019	200
2018	Evaluation Rubrics for Project First Phase Seminar Final Year UG	27/11/2018	01/12/2018	31/07/2019	984
2018	South zone I nteruniversi ty Cricket Tournament (Men) 2018 19	27/11/2018	14/01/2019	23/01/2019	1000
2018	Industry	26/12/2018	14/02/2019	16/02/2019	200

	Alliance through KTES – 2019				
2018	Curriculum Gap Identification and Industry Alliance	26/12/2018	01/01/2019	31/07/2019	300
2019	Relook on Academic and Administrative Audit	26/02/2019	01/07/2019	31/07/2019	188
2019	Relook and follow up of Academic Process Improvement	26/02/2019	01/03/2019	31/07/2019	188
2019	Skill Development Training to Administrative / Technical / Supporting Staff	02/05/2019	08/07/2019	26/07/2019	90
2019	Enriching contents of Institution Handbook: 201920	02/07/2019	01/07/2019	31/07/2019	900
2018	Follow up of NBA Process	30/08/2018	01/09/2018	31/07/2019	165
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
One Day National Level Workshop on "Women Empowerment in Higher Education" organized by Telecommunication Engineering Department of JNNCE	29/04/2019	29/04/2019	58	0

Seminar on "Women Health awareness programme under Swasth Bharath Scheme" organized by the Department of Electronics and Communication Engineering, of Jawaharlal Nehru National College of Engineering, Shivamogga in association with IETE, Shivamogga	18/03/2019	18/03/2019	39	0
Seminar on "Women Health awareness programme under Swasth Bharath Scheme" organized by the Department of Electronics and Communication Engineering, of Jawaharlal Nehru National College of Engineering, Shivamogga in association with IETE, Shivamogga	26/02/2019	26/02/2019	59	0

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
• District Biofuel Research, Information, and Demonstration Center, JNNCE, Shivamogga has been established in June 2011 by Karnataka State BioEnergy Development Board, Govt. of Karnataka, Bangalore. Since then center has collected around 90 tons of oil seeds and also around 4750 liters of fried cooking oil is collected from various hotels in Shivamogga district and produced around an average of 1500 litres per month of Biodiesel. Also more than 6500 numbers of soap cakes, 450 litres of phenol and 370 litres of liquid soap oils have been produced as byproducts. Around 8 of the biodiesel produced in the center has been utilized as fuel for running college buses. • A Solar PV system producing 400 KW of electricity is being installed in the JNNCE campus and may set to commence the operation by the end of this year 2019. Through this solar plant 80 of produced energy will be utilized by college campus and 20 will be exported to the MESCOM grid fetching revenue. The annual requirement of energy by the college campus is around 5, 81,510 units. Of the produced

energy 5,60,000 units will be utilized for the campus and 112,000 units will be sold to the MESCOM grid at the rate Rs.4.00 per unit fetching revenue.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Ramp/Rails	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	33	3	08/09/2018	8	Awareness program on Biodiesel	Through these programmes the institute is thriving in Malnad region catering education for budding engineers along with creating awareness about the Biofuel and various renewable energy by promoting their usages developing a sustainable and pollutio	320
2019	4	3	04/01/2019	8	Biofuel Exhibition	Through these programmes the institute is thriving in Malnad	800

						region catering education for budding engineers along with creating awareness about the Biofuel and various renewable energy by promoting their usages de veloping a sustain able and pollutio	
2019	1	1	24/02/2019	8	Bio energy training program	Through these pro grammes the institute is thriving in Malnad region catering education for budding engineers along with creating awareness about the Biofuel and various renewable energy by promoting their usages de veloping a sustain able and pollution	60

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)

1) HUMAN RESOURCE MANUAL published by the National Education Society (R.) for the employees of J.N.N.College of Engineering, Shivamogga.	01/06/2018	The main objective of the HR manual is to layout the service rules for all employees working in JNNCE, Shivamogga. The rules have come into force with effect from 1st June 2018 with the approval of the Managing Committee of NES. The rules govern the appointment, cadre advancement and service conditions of employees working in JNNCE.
2) COLLEGE HAND BOOK published by the J.N.N. College of Engineering, Shivamogga Published every academic year	01/08/2019	College Hand Book is an informative tool for the students as well as the parents. The information covered by the book involve complete details of all the teaching as well as nonteaching faculty of all the Departments, Department facilities, Publications, Placement details, Bus facilities, Hostel facilities, Bank facilities, Medical Clinic facilities and Academic calendar to be followed.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
11 Days Induction Programme to the I Sem.B.E Students organized by the Institute Induction Programme Cell, JNNCE, Shivamogga.	01/08/2019	23/08/2019	606
2) 18 Days Induction Programme to the I Sem.B.E Students organized by the Institute Induction Programme Cell, JNNCE, Shivamogga.	01/08/2018	23/08/2018	659

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Use of Lights and Fan : Frugal use of lights and fans is facilitated by the highly ecofriendly structure of our building. Institute has energy conservation road map to move towards ecofriendly lighting and fans like LED lights, 3/5

start rated AC and Fans. This will help to reduce the energy consumption and lower emission of heat, reducing cooling requirements.

2. **Roof Rain Water Harvesting** : The Institution has the facility of 10 million liter capacity rain water collection, which collected from all the buildings in the campus. In addition to this, surface water collection (rain) in another pond.

3. **BioDiesel Production** : BioDiesel is being produced by District Biofuel Research, Information, and Demonstration Center, JNNCE, Shivamogga from the nonedible oil seeds and fried cooking oil. Around 1500 litres of BioDiesel produced during every month can be blended with fossil fuel in diesel vehicles.

4. **Sewage Treatment Plant** : Sewage Treatment Plant (STP) of capacity 200 KLD has been constructed and commissioned within the JNNCE campus. The sewage from Hostels, College Mess, College Canteen, Office, as well as all utility buildings of College is being treated and the treated effluent is utilized for flourishing greenery within the campus.

5. **Solid Waste Management System** : Solid Waste Management System is installed and commissioned since 12th July 2017 for the treatment of organic waste which is generated in the college campus area. The organic wastes such as food wastes/vegetable wastes from Hostels and Canteen, Garden wastes of periodical cutting of lawn grass and fallen leaves as well as flowers from trees/vegetation are collected and treated to produce around 32 tons of compost per annum. The compost produced is commercially sold for Rs. 2.50 per Kg fetching revenue which is being utilized to maintain the system.

6. **Phytoremediatin System** : 5 KLD Phytoremediatin system has been installed and working since June 2019. The system is a low cost treatment unit employed for the purification of grey water where in some specific plants are involved to absorb, accumulate detoxify and remove contaminants from water through physical, chemical and biological process. Presently the system is in function as a pretreatment unit for existing Sewage Treatment Plant.

7. **Solar PV System** : Solar PV System producing 400 KW of Electricity is in the process of installation and will be in operation in next couple of months. 80 of energy produced will be utilized for the college campus and 20 energy will be exported to the MESCOM grid at the rate Rs. 4.00 per unit.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1 : 1. Title of the Practice: Evolving JNNCE as a "Green Campus" 2. Goal : The goal is to promote "Green campus concept" and become a role model for the educational institutions in particular and society in general. Green solutions: • Green building design. • Wind and solar energy for electricity, Demand side management, energy conservation, eadministration, etc. • Bio diesel Bicycle for in campus transportation. • Bio gas from canteen, hostel waste, night soil, solar energy for cooking. • Rain water harvesting. • Promotion of local food. 3. The Context : The campus is located on a hard rock bed. It is difficult to achieve sustainable solutions for water problems. Percolation of rain water is very low and hence the underground water source does not yield sufficient water. In order to overcome the problem, a reservoir of 10 million liter capacity is created. 4. The Practice : Following green solutions are being promoted in the campus : • An initiative step to install solar power system of 400kW is being processed for the entire electrical power needs of the campus. • Bio diesel is being promoted as a blend for transportation. • Waste water treatment system supplies water for secondary usage thus reducing the fresh water requirement. • Solid waste management system handles the bio degradable waste and converts it in to good manure. • Promotional activities are being carried out for public and other institutions through, "Chirantana

Green Technology Center" Established in our college. 5. Evidence of Success : • Self reliance on water management. • Reduction in fuel bill for transportation has been achieved. • Pollution free campus Best Practice 2 : 1. Title of the Practice: "To encourage entrepreneurship among students" 2. Goal: • To act as an institutional mechanism for providing motivation, guidance, information and support services on enterprisebuilding to budding Science and Technology entrepreneurs. • To create an entrepreneurial culture in the Institution to support the technically qualified youth, women and weaker sections of the society. • To inculcate a culture of innovationdriven entrepreneurship to enable students to carry out inhouse projects. • To ease pressure on campus placements, by showcasing alternate and rewarding career opportunities. • To respond effectively to the emerging challenges in the business world. 3. The Context: More than one lakh students get their engineering graduation in Karnataka every year. There are significant number of students who have valuable entrepreneurial ideas which do not germinate and grow to completion, for want of the necessary environment and support. Allowing students to start working on innovative ideas while they are in college, can be expected to make them contribute significantly to the growth of a robust entrepreneurial system in the society. 4. The Practice: • Institution has setup New Age Incubation Network Centre – NAIN sponsored by Department of ITBT, Govt. of Karnataka to encourage faculty members to submit their research ideas and undertake research work funded by NAIN during 2015 headed by a Regional Coordinator. Also, Entrepreneurship Development Cell – JNNCE EDC – a member of National Entrepreneurship Network is functioning since 2013. • This is platform for students to initiate entrepreneurship activities. BE and M.Tech students are part of the above Cell. • Students are made practice of doing innovative projects during 4th year. Faculty members support learning, design, implementation of problem for successful completion of projects. • Inspirational talks by successful entrepreneurs and startups, Business plan contests, participation in workshops, project exhibitions, etc are regularly arranged as part of this initiative. • The results of above said practice also increases the number of papers published by the faculty members. Student entrepreneurship is done in 3 stages. • Preparation Inhouse stage: The expert committee formed for the evaluation of ideas shall interview each candidate and analyze his profile, interest and potentiality. • Review and establishment: Team formation is the key for the entrepreneur to commence his journey before starting his own company. • Prototype development: The working model or prototype of the technology idea to be developed and this is to be certified by experts for commercialization. 5. Evidence of Success : The NAIN, Centre JNNCE provides platform for students to innovate, design and prototype industry relevant products. Funds worth Rupees 60 Lakhs from Department of ITBT, Govt. of Karnataka have been received in the last two years to work on industry standard hardware and software resources and research projects. As an outcome of this some of our students have started their entrepreneurial activities. 6. Problems Encountered and Resources Required. : • Generating and sustaining students? interest in entrepreneurial activities is a challenge, as many are riskaverse, and are lured by cozy jobs in corporate world under different compulsions. • Takes a lot of work and long hours before a project is successfully implemented. In the final analysis, the success of the idea depends on the uncertain and volatile marketplace.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
http://jnnce.ac.in/jnndemo/greenpolicy.html

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

1. Centre for Innovation and Entrepreneurship (CIE) : • Center for Innovation and Entrepreneurship (CIE) was started in the year 2018 to jointly run various Platforms/Programs at JNNCE with the Support of various Govt. Departments and agencies, Universities, Institutions, Industries, Startups, NES Management, JNNCE Faculty, Alumni and Students. • The Goal of CIE is encouraging students and project teams to register at least 10 startups by end of 2019, 25 startups by 2020 and 100 by 2025 with job generation of at least 100, 250, 1000 respectively by 2019, 2020, 2025 with revenue of Rs.10 crore, Rs.25 crore, Rs.100 crore respectively by 2019, 2020, 2025. 2. NEWGEN IEDC : • National Science and Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology (DST), Government of India has started New Generation Innovation and Entrepreneurship Development Centre (NewGen IEDC) at JNNCE in 2018. • Students will be encouraged to take up innovative projects with possibility of commercialization. • Few amongst the "JobSeekers" would be converted to "JobGenerators" through the entrepreneurial route. Best 10 innovative projects in Batch1 (201920) have been selected recently in which each project team will get upto Rs. 2.5 Lakhs funding support to undergo their projects. 3. NEW AGE INCUBATION NETWORK CETRE (NAINC) : • Department of IT BT, Government of Karnataka has started "New Age Incubation Network" Centre at JNNCE in 2014 to build startup and business ecosystem in and around Shivamogga. • Innovative Project proposals will be invited from JNNCE students, Alumni, Research Scholars and the public every year. • For Top 10 innovative ideas, there will be a funding of upto Rs. 3.00 Lakhs per Project. • Best 43 innovative projects in Batch1 (201516), Batch2 (201617), Batch3 (201718) and Batch4 (201920) have been funded to a maximum of Rs. 3.00 Lakhs per project. • NAIN Institution Level Innovation Council has been formed to regularly coordinate in NAIN Centre activities and projects. 4. JNNRIC : • JNNCE Research and Innovation Centre (JNNRIC) aims to nurture innovation and encourage entrepreneurial talents among students, faculty and people of the region. • JNNRIC might include research proposals addressing the Agricultural Technology, Renewable Energy and Energy Conservation System ICT for Socially relevant problems. • Rs.30 Lakh is funded by JNNCE, Shivamogga. 5. JNNCART : • A Centre for Appropriate and Agricultural Technologies was setup at JNNCE with the objective of serving farming community and other people of the Malnad region. • Students will be motivated to address problems faced by the farmers through innovative, cost effective farming implements as a part of their project work as prescribed in academic curriculum. Rs.8 Lakh is funded by JNNCE, Shivamogga. • CART aims to Encourage students and faculty for innovation, idea generation and product development, Provide seed fund to transform an idea into a product. 6. TBI Technology Business Incubator : • Karnataka Council for Technological Up gradation (KCTU), Govt. of Karnataka has approved a TBI and will be started soon. • JNNCETBI aims to provide common instrumentation facility, Mentors and Investors Connection,

Provide the weblink of the institution
http://jnnce.ac.in/jnndemo/newgeniedc.html

8.Future Plans of Actions for Next Academic Year

FUTURE PLANS 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!Enhancing the academic atmosphere by emphasizing excellence in teaching, research, innovation • Engage the stake holders to explore strengths opportunities across the institute • Identifying the problems developing solutions, automating routine works to optimize the resources • Increase the competence level of Faculty and staff • Collaboration for joint research and exchange programs • Accreditation of all depts and outbound education system • Preparing and going for Autonomous status

1. Governance a. Identifying the problems developing solutions, with office Automation. b. Fostering a more transparent, responsive, motivated and agile administrative machinery c. Ensuring meticulous financial planning, Implementation and auditing. 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. h. Enhancing visibility through more reachingout, publicity promotion, press public relations, publications, extension social community participation 2. Education Quality • Academic and Administration Audit (AAA) Committee formed for • Internal Audit • External Audit • Analysis and action plan on outcome of the audit. • Faculty Development workshops on various topics in all depts. • Identifying and developing Road map for topics based on current future need • Mentoring by inside, outside academic experts, and 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 Inhouse workshops Motivational programs • Making use of Free Online resources • Inviting Industry experts, Alumni during weekend for teaching. 4 • Student mentoring strengthening • Existing MOUs to be used. • Implementation of new courses and centre of excellence. 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 nonrecurring capital expenditure budgeting, purchase/acquisition, maintenance and disposal of capital assets • Ensuring optimum utilization of classrooms, laboratories, workshops, equipments, and other facilities. • Developing and maintaining proper landscaping, effluenttreatment, safety security, vigilance surveillance on the campus 4. Research Innovation • Identifying the areas of research based on strength of Faculty • Create an environment for highimpact, cuttingedge research • Applying for IndoXXX Country Research funding by collaborating with Foreign Universities • 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