



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

**JAWAHARLAL NEHRU NEW COLLEGE OF
ENGINEERING, SHIVAMOGGA**

NAVULE, SAVALANGA ROAD, SHIVAMOGGA

577204

www.jnnce.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Jawaharlal Nehru New College of Engineering (JNNCE), is one of the technical institutions of Karnataka, providing excellent technical education and training to students from all parts of India. JNNCE is a flagship Institute of the National Education Society (NES), established by freedom fighters and philanthropists like Sri. H. S. Rudrappa, Sri. S. V. Krishna Murthy Rao, Sri. S. R. Nagappa Setty and Sri. D. S. Dinakar and groomed by Sri Girimaji N Rajagopal, Sri D.R.Ratnakar among others – has, during 75 years of its existence, spread its wings in several disciplines of education through establishment of 36 educational institutions in the Malnad region of Karnataka state. Started in the year 1980, the institution has completed 36 years of its fruitful existence towards achieving perfection in all aspects of technical education and training and has emerged as one of the most sought-after destination for technical and management education by students and parents from all over India. JNNCE is affiliated to Visvesvaraya Technological University (VTU), Belagavi and recognized by the All India Council for Technical Education (AICTE). The college offers BE courses in 9 branches of engineering, namely, Civil, Mechanical, Electrical and Electronics, Electronics and Communication, Computer Science and Engineering, Information Science and Engineering, Electronics and Telecommunication Engineering., Emerging branches in Artificial Intelligence and Machine learning and Robotics and Artificial Intelligence. newly started. All previous 7 branches are accredited by National Board of Accreditation. The college also offers 4 PG courses, namely, MCA, MBA and M.Tech., in Computer Science and Engineering, and Transportation Engineering and Management. JNNCE is also a University recognized research centre in Civil Engineering, Mechanical Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, MBA, Physics, Maths and Chemistry leading to the award of M.Sc. (Engg.) and Ph.D. The lush green sprawling campus of about 49 acres caters to the needs of nearly 3750 students and 450 staff, with state-of-the-art technology back-up, well-equipped laboratories and workshops, library, hostels, playgrounds and other amenities. Other salient features of the institute includes excellent infrastructure with spacious class rooms with modern teaching aids, state-of-the art laboratories and computers.

Vision

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

Mission

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

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. Visionary management team and transparent administrative system.
2. Qualified, experienced, and dedicated teaching faculty and staff with good retention ratio.
3. The institute has a well-equipped infrastructure with a spacious built-up area for teaching, learning and research.
4. The institute has an excellent rapport with the corporate world for technical and placement support.
5. Student centric functioning with mentoring, counselling, and effective academic monitoring.
6. ICT integration in Teaching-Learning pedagogical initiatives.
7. Good academic results and consistently bagging ranks in university.
8. Strong training and placement cell, which develop skills amongst students and improved placement opportunities for students.
9. Vibrant student chapters of the professional bodies IETE and IEEE
10. Excellent track record of bagging prizes by UG and PG students in Co-curricular extra-curricular and sports activities at the university/ state and national level.
11. Self-sufficiency in terms of energy requirement because of E-Campus
12. Spacious Library and information center with necessary volumes
13. Institute is regularly organizing various development programs for the benefit of teachers and students through seminars, workshops, conferences, symposiums, and student meets.

Institutional Weakness

1. Deepening of industry-academia partnerships in applied research needs to be encouraged.
2. Institute has to upgrade its teaching community for more funded projects, quality research and development, patents, and consultancy.
3. Limited interdisciplinary and sponsored projects.
4. Limited partnership and collaborative work amongst community/peer institute
5. Limited revenue generation through consultancy.

6. Student diversity is poor

Institutional Opportunity

- 1.. Ample space for collaboration with R&D Labs and Industries
- 2.. Distance getting bridged between Bangalore and Shimoga because of increased rail and air connectivity has created an opportunity for bringing corporate luminaries to the campus for the benefit of students
3. Better internet connectivity has created an opportunity for conducting a placement drive in virtual mode.
4. Potential to occupy the top college status in the state.
5. Possibility to attain autonomy status for the Institute and become a university.

Institutional Challenge

1. Creating an entrepreneurial ecosystem is a challenge in an ecosystem that is obsessed with joining the job market.
2. To mentor prospective students to enroll in core engineering courses in an environment that is obsessed with joining trending courses like AI/ Robotics/ data science. Sustaining the core engineering courses in this environment becomes a challenge.
3. To attract students from other states to meet the diversity of students in enrolment is a challenge
4. To become a fully residential campus is a challenge because the majority of students are from shimoga and nearby places.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Jawaharlal Nehru New College of Engineering (JNNCE) is affiliated to Visvesvaraya Technological University (VTU), Belagavi. The syllabus is framed by VTU and a systematic approach is designed in the institution for effective curriculum delivery. The VTU will announce the calendar of events every semester and based on this, the academic planning of the institute will be carried out. The institute will prepare a detailed calendar of events, from which the department calendar will be prepared in the department. University will revise the scheme and syllabus oftenly for once in four years. Faculty of the institute also nominated as committee chairman/ members by the university in Board of Study (BoS) and Board of Examination (BoE). At the beginning of the semester, a subject allotment meeting will be conducted by the Head of the Department with

all faculty members in the department. The subjects will be allocated to the faculty based on their previous experience, number of times taught and expertise. The department timetable will be prepared by the timetable committee formed in the department. After subject allocation, each faculty will prepare the lesson plan for the allocated course. The course file will be prepared by the concerned faculty which contains a lesson plan, syllabus, Minutes of meeting of course instructors, Course Outcomes, mapping of Course Outcomes with program outcomes, Course diary, test question paper and solutions. Faculty members are uploading the Lecture notes, power point presentation, and video presentations are made available to the students through in house software and college website. Tests will be conducted in a semester spread over the entire semester duration. The question papers are set to meet Bloom's taxonomy levels (BTL) and map to the course outcomes. These question papers are scrutinized in the department through the question paper scrutiny committee to check the coverage of the syllabus, marks allocation and BTL. The question paper setter has to set the scheme of valuation for that test, which will be made available to the students after the test. The test performance analysis will be carried out by every faculty, from which slow learners will be identified. Additional classes will be conducted for them after counselling. Similarly, the best performers will be appreciated and motivated to undertake mini projects, MOOC online courses, etc.

Teaching-learning and Evaluation

The institute follows a clear admission process in accordance with the rules and regulations of the Government of Karnataka. Institute has an enrolment ratio of about 75%. Highly qualified and experienced faculty is the strength of the institute with high retention ratio. 54 Ph.D. holders and most of the faculty are pursuing the Ph.Ds. As per the AICTE rule, 1:20 student faculty ratio is maintained in the departments. To improve the quality of teaching and learning various pedagogical initiatives have been adopted. The students are made to understand the topics through the quizzes, seminars, group activities, lecture videos, coding and demonstration of real world models. These initiatives help the students to improve communication skills, presentation ability, programming skills, self-learning ability and peer learning ability. Most of the faculty members use ICT facilities for effective teaching learning process. Course instructors create google class room for the subjects they are handling. All the information related to the subjects are shared in the group. The internal assessment mechanism in our institution is characterized by its transparent and robust processes, encompassing various evaluation aspects such as question paper setting, project assessment, technical seminar evaluation, and internship evaluation. Our continuous internal evaluation policy is structured around a well-defined framework by the Internal Quality Assurance Cell (IQAC). Firstly, the internal semester question paper setting and evaluation process is meticulously orchestrated. To ensure the fidelity and fairness of the evaluation process, a dedicated Question Paper Scrutiny Committee (QPSC) is constituted. This committee meticulously reviews the question papers, taking into consideration both content and structure. The scheme and solutions accompanying the papers are made accessible to students and are thoroughly discussed in the classroom, fostering a holistic learning experience. In line with our commitment to transparency and efficiency, an effective grievance redressal mechanism is established for internal examination-related concerns. The internal assessment for theoretical subjects is conducted through three tests distributed across the academic calendar. The final internal assessment marks are derived from the average scores of these tests, creating a comprehensive and well-rounded evaluation. Mentoring system exists in the institute to ensure overall development of the students, which includes personal, professional, career development.

Research, Innovations and Extension

The institute provides excellent ecosystem for research, innovations and extension activities. Approximately

193 lakhs funding projects are granted to the institution in last five years. Centre 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. CIE aims to create innovation, startup & Entrepreneurial ecosystem at JNNCE and in & around Shivamogga by providing all the required facilities like incubation support, startup space, Mentors connection, Support on IPR & Startup Registration, Investors Connection, assistance in building Business plan, Financial Projection, team building, product launch, marketing, scale-up etc. CIE Also provides platform to setup Development Centres & Centres of Excellence by various startups, Industries, Agencies & MNCs at JNNCE Campus. NewGen IEDC, NAIN Center, MSME Business Incubator, Institution's Innovation Council, JNNRIC, JNNCART are some of the initiatives/Platforms of CIE. Nearly 384 different workshops/seminars/conferences including on research methodology, intellectual property rights and entrepreneurship conducted during last five years. Extension activities were carried out through NSS and Red Cross. In these students were exposed to rural situations through annual special camps to get the first-hand perspective of the rural society and livelihood situations. The awareness programs like educating rural people regarding digitization, fuel resources, biofuel resources utility, environmental issues, personality development. College encourages students to participate in extension activities organized by the government/government recognized bodies. Students participated in technical symposium organized in different parts of the Karnataka and won prizes. Students were encouraged to participate in national and state level project exhibitions and bagged best project awards in consistently over the years. Karnataka State Bioenergy Development Board recognized bio fuel research activities. To encourage research and publication, the institute has launched its own online bi-annual research journal, titled "JNNCE Journal of Engineering & Management" (JJEM) in October 2017 to publish research papers from scholars, both from India and abroad.

Infrastructure and Learning Resources

- The institution has sufficient number of well furnished, well ventilated, spacious class rooms with LCD Projectors for conducting theory classes and area is as per norms. Exclusive language lab with audio, video facility, separate dept. library, each dept. as a separate seminar hall equipped with LCD Audio visual facilities. All laboratories are well equipped with LCD Projectors and well maintained both for syllabus oriented practical and research activities. Each laboratory is maintained by dedicated lab instructor /system administrator. Provision is made in annual budget for procurement, up gradation, deployment and maintenance of the laboratory equipment for each dept. in the institution. The process of calibration and precision measures are handled by the expert agencies to up keep all the electronics equipment. The institution has a comprehensive policy which is governed by the IT planning and monitoring committee comprising of head of the institution, HOD of CS/IS/MCA, Networking administrator system analyst and programmers. 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 simultaneously login to single access point. **JNNCE Sports department** aims at all round development of student's personality through sports activities. It has required infrastructure to enhance the sports activates like indoor and outdoor sports facility. The sports department actively organizes inter department sports activates annual sports day, sports events. Sports Department/Sports Ground /Sports Hall State of art sports facilities are provided that makes 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. JNNCE has consistently emphasized the establishment of top-tier IT infrastructure and the development of applications to support academics and research. The campus has seen an expansion of over 1000 LAN points, spanning across computer and

office spaces. A notable upgrade has been made to the campus backbone network, elevating with additional 2 lines (300 Mbps and 200 Mbps) FTTH connections, accompanied by the deployment of Wi-Fi access points. Separate Library block spread over 1675.87 sq.mts sq.mts with separate lending section, book bank section and two reference sections.

Student Support and Progression

The Institution ensures financial assistance to the students in the form of Scholarships, free ships and other concessions as per government norms and disbursed on time. Semester Class Toppers, Meritorious students, Rank holders and Best Outgoing Students are given Cash awards from the Management fund during Annual institute day function. About 50% of the admitted students of UG and PG courses get financial assistance from various agencies.

Students from SC/ST, OBC and economically weaker sections and Students with physical disabilities are provided with scholarships as per norms from various agencies.

- The Institution has allotted funds in the budget for extra-curricular, co-curricular and sports.
- A qualified Physical education director take care of sports activities and a faculty advisor take care of extra-curricular activities.
- The students are provided with well-equipped gym, indoor/outdoor sports facilities. A turf cricket ground is also available.
- External coaches provide training for the students.
- Students are encouraged to participate in various levels of competitions in both sports and cultural events.
- Every department has forums through which technical/non-technical activities take place.
- The outstanding performers in both cultural and sports events are recognized by suitable rewards.

Alumni meet is arranged once in a year at institute level.

- The alumni meet helps in interaction with students at department level.
- The students get the opportunity to know the training required for placement and about the recent scenario of industries.
- Alumni meet help in formulating vision and mission statements of the institute and the department.
- The academic requirement of industries and stakeholders are got known from alumni feedback which is forwarded to VTU for incorporating during up-gradation of the syllabus.
- Alumni who are entrepreneurs give technical talk during the meet which encourage the students to become entrepreneurs or help in getting a good placement.

Governance, Leadership and Management

The institution has the vision, “To be a pacesetter institute in technical & management education and research for producing highly competent engineers, managers & entrepreneurs to meet the needs of industry and society.”

The Mission and a Quality Policy has been formulated that emphasizes state of art technology support, best possible educational infrastructure, encourage R&D, consultancy and improve teaching learning process by

introducing innovative pedagogical and student interaction mechanism.

Functioning of the Institution is transparent through well-defined rules and regulations for governance. The Governing Council is an integral part which steers the institution towards academic excellence with a holistic approach. The governance of the Institution is reflective of an effective leadership in tune with the vision and mission statements. The established policies in the Institute ensure the integrity and effectiveness of the governance and administration. The Institute believes in shared leadership and participative decision-making approach. This reflects the decentralization of its operations and delegation of the necessary authorities and responsibilities. GC is established in accordance with AICTE norms.

The Institute has constituted important statutory and non-statutory committees at the institute level, designating faculty as Chairmen/Conveners/Members, with appropriate powers, duties and responsibilities.

It has implemented e-governance in areas of planning and development, administration, teaching, research, finance and accounts, student admission and examination etc.

The budget allocation is made on the requirements to different departments/committees for purchasing books, equipment, and other needed expenditure. The funds are also generated from self-finance basis in the form of fee by the students

The institution has well defined policies with clear goals for enhancing academic quality and infrastructure. The college interacts with students through a feedback mechanism, besides giving participation to as members in various administrative committees

The college has a well organised IQAC which plays instrumental role in taking developmental activities of the college including infrastructure and academic development. The IQAC sets the objectives in terms of overall academic development of the students.

In the scheduled meetings, the departments are assessed for their academic progress, attendance records, quantum of syllabi completed, assignments and student seminars etc.

Institutional Values and Best Practices

Jawaharlal Nehru New College of Engineering (JNNCE), Shivamogga has envisioned to be a pace setting institute to impart technical as well management education to produce competent technocrats, managers, and entrepreneurs to meet the needs of industry and society. JNNCE has committed for high academic standards and professional excellence through state-of-the-art approaches and by best possible educational infrastructure.

The policies and procedures are structured not only to enable the academic achievement but also for personal growth and continuous improvement. The quality policy of JNNCE ensures that the faculty members to achieve higher qualifications and skills through research, consultancy, and knowledge enhancement programs. Faculty are motivated to devise innovative student centric pedagogical methods in which students are actively engaged in learning process. An effective mentoring system in the institute enables to bring out any obstacles that hinders the student holistic growth and helps them to set goals. JNNCE has incorporated a system through which regular assessment of institute initiatives is made and effective dissemination of information with all

stakeholders is done which in turn facilitates to draw data driven insights and subsequent decisions.

To create conducive environment for student's holistic growth, clean and lush green environment is maintained in the campus. Environmental-friendly initiatives like clean fuel generation, water conservation, curbing the plastic usage create civic sense among students.

In JNNCE, students are groomed to be best engineers by providing an ecosystem in which they learn by experience. Department level professional associations organize programs that enhances technical, soft skills. Professional bodies like IEEE Student Chapter, Institute for Indian Foundry men are organising several programs and competitions for students to enhance their learning. JNNCE supports innovation and entrepreneurship activities through various funding agencies.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	JAWAHARLAL NEHRU NEW COLLEGE OF ENGINEERING, SHIVAMOGGA
Address	Navule, Savalanga Road, Shivamogga
City	Shivamogga
State	Karnataka
Pin	577204
Website	www.jnnce.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal(in-charge)	Manjunatha P	08182-268800	8867762150	08182-222450	principal@jnnce.ac.in
IQAC / CIQA coordinator	Jalesh Kumar	08182-268801	9449423361	08182-222450	jaleshkumar@jnnce.ac.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular Day

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	

State	University name	Document
Karnataka	Visvesvaraya Technological University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	05-10-2018	View Document
12B of UGC	05-10-2018	View Document

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	22-07-2022	12	

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	National Board of Accreditation
Date of recognition	01-07-2022

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Navule, Savalanga Road, Shivamogga	Semi-urban	39	50783.36

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Co course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	II PUC or Equivalent	English	120	28
UG	BE,Computer Science And Engineering	48	II PUC or Equivalent	English	180	180
UG	BE,Information Science And Engineering	48	II PUC or Equivalent	English	180	180
UG	BE,Electronics And Communication Engineering	48	II PUC or Equivalent	English	120	120
UG	BE,Electronics And Telecommunication Engineering	48	II PUC or Equivalent	English	60	54
UG	BE,Electrical And Electronics Engineering	48	II PUC or Equivalent	English	60	47
UG	BE,Mechanical Engineering	48	II PUC or Equivalent	English	90	5
UG	BE,Artificial Intelligence And Machine Learning	48	II PUC or Equivalent	English	60	60
UG	BE,Robotics And Artificial Intelligence	48	II PUC or Equivalent	English	60	53
PG	Mtech,Civil Engineering	24	BE or Equivalent	English	18	2

PG	Mtech,Computer Science And Engineering	24	BE or Equivalent	English	25	2
PG	MBA,Master Of Business Administration	24	Any degree	English	120	120
PG	MCA,Master Of Computer Applications	24	Any degree	English	90	90
Doctoral (Ph.D)	PhD or DPhil,Civil Engineering	48	Master Degree	English	0	0
Doctoral (Ph.D)	PhD or DPhil ,Computer Science And Engineering	48	Master Degree	English	0	0
Doctoral (Ph.D)	PhD or DPhil ,Electronics And Communication Engineering	48	Master Degree	English	0	0
Doctoral (Ph.D)	PhD or DPhil ,Electrical And Electronics Engineering	48	Master Degree	English	0	0
Doctoral (Ph.D)	PhD or DPhil ,Mechanical Engineering	48	Master Degree	English	0	0
Doctoral (Ph.D)	PhD or DPhil,Master Of Business Administration	48	Master Degree	English	0	0
Doctoral (Ph.D)	PhD or DPhil,Physics	48	Master Degree	English	0	0
Doctoral (Ph.D)	PhD or DPhil ,Chemistry	48	Master Degree	English	0	0

Doctoral (Ph.D)	PhD or DPhil ,Mathematics	48	Master Degree	English	0	0
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Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	22				22				132			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	22				22				132			

Non-Teaching Staff						
	Male		Female		Others	Total
Sanctioned by the UGC /University State Government						0
Recruited	0		0		0	0
Yet to Recruit						0
Sanctioned by the Management/Society or Other Authorized Bodies						125
Recruited	85		40		0	125
Yet to Recruit						0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				73
Recruited	65	8	0	73
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	17	5	0	7	2	0	12	4	0	47
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	9	4	0	76	38	0	127
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	1		0		1

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	350	1	0	0	351
	Female	421	0	0	0	421
	Others	0	0	0	0	0
PG	Male	72	0	0	0	72
	Female	142	0	0	0	142
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	19	24	24	22
	Female	25	22	26	24
	Others	0	0	0	0
ST	Male	3	2	4	3
	Female	4	6	4	5
	Others	0	0	0	0
OBC	Male	39	36	52	55
	Female	48	55	55	36
	Others	0	0	0	0
General	Male	342	283	301	332
	Female	352	286	300	320
	Others	0	0	0	0
Others	Male	2	2	4	0
	Female	0	0	0	3
	Others	0	0	0	0
Total		834	716	770	800

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>Jawaharlal Nehru New College of Engineering is affiliated to Visvesvaraya Technological University (VTU), Belagavi. VTU curriculum address the subjects such as Environmental Sciences, Constitution of India and Professional Ethics, Management and Entrepreneurship, Air Pollution, Waste Water Engineering, human values, renewable energy sources which brings awareness among the societal issues. Third and fourth year UG students can choose the courses other than their core domain as open elective courses to gain knowledge of other domains. The induction programme is organized for first year students to enhance human values and professional ethics. College organized various</p>
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	<p>workshop and expert talk on National Education Policy. NSS and Red cross team of the institute actively participating in social services activities. VTU also introduced honours degree by securing additional 18 credits. New syllabus scheme introduced by VTU in 2022-23, by considering National Education Policy.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>Visvesvaraya Technological University implemented Academic Bank of Credits for students. As per the regulations, a student can enrol for Honors degree if having minimum 8.5 CGPA up to 4th semester. They have acquires 18 credits through online courses offered by NPTEL, MOOCs platform – SWAYAM before completion to get the degree. As per new regulations, PG students have to study 2 NPTEL courses in first year to secure the mentioned credits. Students are also encouraged from the institute to take up NPTEL, Course era online courses. Many students successfully completed the MOOC courses.</p>
<p>3. Skill development:</p>	<p>In Visvesvaraya Technological University curriculum UG and PG students have to undergo internship for a period of 4/6/24 weeks in industry to enhance their technical skills by knowing emerging technologies in their domain area to cater to the socio-economic needs. VTU curriculum includes courses which integrate crosscutting issues relevant to Professional Ethics, Human Values, Environment and Sustainability. Ability Enhancement Courses (AEC) offered by VTU for UG students are aimed at providing hands-on-training, competencies, value based skills, etc. In collaboration with industry internship training is arranged in the institute to enhance the learning skills. Final year students are encouraged and motivated to take up project works related to societal problems and some students have also received funding from government agencies to execute the project work. Through the student induction programme (SIP), technical talks on universal human values (UHV) and professional ethics are delivered by the experts so as to build the value education among the first year students. Soft skill lab is set up in the departments to train the students. Placement cell continuously arranging the soft skill training activity to students to improve their technical skills and personality development. Institute has made MOUs with industry to conduct internship, hands on training and workshops.</p>

<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>As the institute adheres to the framework of the VTU curriculum, the Indian knowledge system is integrated with the curriculum as UG students study Samskrutika Kannada / Balake Kannada in first year as mandatory credit courses. To identify the creative talents of students, Institute has set up cultural committee which conducts various cultural events 'ethnic day', 'Jahnvi' etc. every year. Classical music, dance, rangoli etc competitions are conducted to inculcate indian culture and tradition. Institute also celebrates Kannada Rajyothsava every year on 1st November. MBA department arranged "Malenadu Mela" to promote local culture and business.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>Institute adopted OBE process from 2016 onwards. Institution is having Vision and Mission based on technical learning outcomes. Each program is having Vision and Mission adherence to the institute Vision and Mission. Program outcomes are specified by Nation Board of Accreditation. Each program defines Program Educational Objectives and Program Specific Objectives. Each course in the curriculum is having course outcomes. Course outcomes are mapped to program outcomes. Curriculum gap is covered by student development programs, technical skill training, workshops, technical talk etc. For each course, attainment is computed. Based on all course attainment, program attainments are computed. Program attainment is verified with set target levels for further improvement. Department advisory board, Program Assessment Committee like advisory committee will be established in each department. In such committees analysis and further improvement will be discussed. Jawaharlal Nehru New College of Engineering 7 UG programs Civil, Mechanical, Electronics and Communication, Computer Science and Engineering, Information Science and Engineering, Electrical and Electronics & Electronics and Telecommunication got accredited for 3 years (2019-20,2020-21 & 2021-22). All 7 UG departments further accredited for 3 more years (2022-23,2023-24, & 2024-25). MBA department accredited for 3 more years (2022-23,2023-24, & 2024-25).</p>
<p>6. Distance education/online education:</p>	<p>Visvesvaraya Technological University implemented Academic Bank of Credits for students. As per the regulations, a student can enrol for Honors degree if</p>

	<p>having minimum 8.5 CGPA upto 4th semester. They have acquires 18 credits through online courses offered by NPTEL, MOOCs platform – SWAYAM before completion to get the degree. As per new regulations, PG students have to study 2 NPTEL courses in first year to secure the mentioned credits. Students are also encouraged from the institute to take up NPTEL, Course era online courses. During pandemic, all faculty members delivered online teaching. All faculty uploaded the videos in youtube channel to made access to students. Institution is also planning to conduct online certification courses.</p>
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Institutional Initiatives for Electoral Literacy

<p>1. Whether Electoral Literacy Club (ELC) has been set up in the College?</p>	<p>Yes, it is established</p>
<p>2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?</p>	<p>Student coordinator and coordinating faculty members are appointed by the college. ELC is functional to give awareness about electoral system</p>
<p>3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.</p>	<p>-Organised training Programme to staff for create awareness to the First-time Voters -Identify the first time voters and general awareness program about voting</p>
<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p>	<p>In the professional ethics and constitution courses faculty deliver the democratic values and importance of voting system In house software system is built to collect the students above age 18 and enroll their voter id</p>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p>	<p>In house software system is designed and implemented to collect the students above age 18 and enroll their voter id.</p>

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
3277	3406	3382	3416	3478
File Description		Document		
Upload Supporting Document		View Document		
Institutional data in prescribed format		View Document		

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 217

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
174	177	185	194	202

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
628.89	203.423	765.18	715.162	396.15

File Description	Document
Upload Supporting Document	View Document

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Jawaharlal Nehru New College of Engineering (JNNCE) is affiliated to Visvesvaraya Technological University (VTU), Belagavi. The syllabus is framed by VTU and a systematic approach is designed in the institution for effective curriculum delivery.

- The VTU will announce the calendar of events every semester and based on this, the academic planning of the institute will be carried out. The institute will prepare a detailed calendar of events, from which the department calendar will be prepared in the department.
- University will revise the scheme and syllabus oftenly for once in four years. Faculty of the institute also nominated as committee chairman/ members by the university in Board of Study (BoS) and Board of Examination (BoE).
- At the beginning of the semester, a subject allotment meeting will be conducted by the Head of the Department with all faculty members in the department. The subjects will be allocated to the faculty based on their previous experience, number of times taught and expertise.
- The department timetable will be prepared by the timetable committee formed in the department.
- After subject allocation, each faculty will prepare the lesson plan for the allocated course. The course file will be prepared by the concerned faculty which contains a lesson plan, syllabus, Minutes of meeting of course instructors, Course Outcomes, mapping of Course Outcomes with program outcomes, Course diary, test question paper and solutions.
- Classes are conducted as per the timetable and are monitored by HoD and the Principal. Teaching aids are used, such as PowerPoint presentations, audio-video tools, experimental demonstrations, programming tools etc are used wherever necessary.
- Faculty members are uploading the Lecture notes, ppt, and video presentations are made available to the students through in house software and college website.
- The CIE will be conducted as per the university guidelines. Tests will be conducted in a semester spread over the entire semester duration. The question papers are set to meet Bloom's taxonomy levels (BTL) and map to the course outcomes. These question papers are scrutinized in the department through the question paper scrutiny committee to check the coverage of the syllabus, marks allocation and BTL.
- The question paper setter has to set the scheme of valuation for that test, which will be made available to the students after the test.
- Regular departmental meetings (monthly) conducted to discuss the proper implementation, monitoring and the delivery university curriculum.
- The in-house developed JAMS (JNNCE Automation Management System) software is used as a platform for the interaction among faculty, students and parents, about attendance, CIE marks, final results, mentoring and general information.

- The test performance analysis will be carried out by every faculty, from which slow learners will be identified. Additional classes will be conducted for them after counseling. Similarly, the best performers will be appreciated and motivated to undertake mini projects, MOOC online courses, etc.
- Semester End Exam (SEE) will be conducted as per the schedule given by the VTU.
- Technical lectures, field/industrial visits, workshops/conferences, technical fests, cultural fests, and sports events are conducted for overall growth of the student.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response: 246

File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Other Upload Files

1

[View Document](#)

1.2.2

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 3.72

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
320	81	134	57	39

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Response:

Visvesvaraya Technological University (VTU) curriculum, address the subjects such as Environmental Sciences, Constitution of India and Professional Ethics, Management and Entrepreneurship, Air Pollution, Waste Water Engineering, human values, renewable energy sources which brings awareness among the societal issues.

Environmental awareness activities such as world environmental day, Akshay oorja day, tree plantation, etc., are practiced in the institute. Lectures by environmentalists are organized by the Institute. The college discourages the use of plastics and a project work on plastic-to-petrol was carried out by Mechanical Engineering Students. Rainwater harvesting is adopted in the campus. Topics related to environmental issues are taken up for quizzes and debates during Environmental Day. Students visit effluent and water treatment plants, which educate them on environmental issues. A Bio diesel plant is installed and is functioning in the campus under the aegis of Karnataka state Energy development board,, Government of Karnataka, provides the students to undertake projects in the area of biofuels.

To inculcate human values, the Institute organizes blood donation camps, Swach Bharath abhiyaan, digital India awareness, corona vaccination camp etc. Induction program for new students every year, educates them through eminent lectures on UHV, Yoga classes and Health awareness.

Anti ragging committee in the institution comprising of the Principal as chairperson along with the senior Professors and Heads of the departments as members will monitors the overall discipline in the campus as well as in hostels.

The Institution gives equal opportunities to both the genders in terms of admissions, employment,

training programmes, sports, cultural activities etc. The college encourages girl students and women employees to participate in various events, focusing on women empowerment that aims to promote leadership qualities. International women's day is celebrated on 8th March, every year. Both boys and girls are members of various clubs associated with academic, co-curricular and extracurricular activities. The anti-sexual harassment committee looks after the grievances related to sexual abuse, teasing, etc. The entire campus is under CCTV surveillance that ensures the complete safety of students

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 71.71

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 2350

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response: A. Feedback collected, analysed, action taken & communicated to the relevant bodies and feedback hosted on the institutional website

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 75.73

2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2021-22	2020-21	2019-20	2018-19	2017-18
834	716	770	800	830

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1033	928	1045	1105	1105

File Description

Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 52.37

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2021-22	2020-21	2019-20	2018-19	2017-18
141	142	169	154	124

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
262	235	291	300	306

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.2 Student Teacher Ratio

2.2.1

Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response: 18.83

2.3 Teaching- Learning Process

2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

To improve the quality of teaching and learning various pedagogical initiatives have been adopted. The students are made to understand the topics through the quizzes, seminars, group activities, lecture videos, coding and demonstration of real world models. These initiatives help the students to improve communication skills, presentation ability, programming skills, self-learning ability and peer learning ability.

Collaborative Learning:

In Collaborative learning two or more people learn or attempt to learn something together. Unlike individual learning, people engaged in collaborative learning capitalize on one another's resources and skills. These include both face-to-face conversations and computer discussions. Thus, collaborative learning is commonly illustrated when groups of students work together to search for understanding, meaning, or solutions or product of their learning.

Software Assignments: In this small programming tasks like spot programming, mini project implementation, creative programming etc., are given to students, students have to solve these tasks using appropriate programming language and submit within the deadline given. This helps in improving the programming ability as well as problem solving ability of the students.

Quiz/class Tests/puzzles: To test the understanding and analysing ability of the students quizzes/tests are conducted. In this set of questions are posed to the students, students have to answer the questions. To improve the creative thinking ability, some crossword puzzles are given on the selected topics. The students have to solve these on the spot.

Instructional methods: Theory and lab sessions are conducted using following instructional methods.

- Black board teaching.
- Presentation using LCD projectors

Course instructors create google class room for the subjects they are handling. All the informations related to the subjects are shared in the group.

Course instructors create video presentations of the subjects and share the videos through you tube channels. Online classes also conducted for effective understanding of the subjects.

Video Lectures/Presentations: Learning ability of the students can be better improved if the teaching includes more visuals than conventional black board teaching. Thus video lectures, presentations helps in visualizing the concepts better. The best video lectures are downloaded and played in the class rooms, if there are any doubts the course teacher will clarify. The course teacher will also prepares the dynamic presentations and delivers them in the class.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response: 100

2.4.1.1 Number of sanctioned posts year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
174	177	185	194	202

File Description

Document

Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)

[View Document](#)

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response: 26.29

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
54	48	48	48	47

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

2.5: Evaluation Process and Reforms

2.5.1: Mechanism of internal/external assessment is transparent and the grievance redressal system is time bound and efficient. (500 words)

The internal assessment mechanism in our institution is characterized by its transparent and robust processes, encompassing various evaluation aspects such as question paper setting, project assessment, technical seminar evaluation, and internship evaluation. This approach is aligned with the guidelines set forth by the Visvesvaraya Technological University (VTU) and the Outcome-Based Education (OBE) system.

Our continuous internal evaluation policy is structured around a well-defined framework by the Internal Quality Assurance Cell (IQAC). Firstly, the internal semester question paper setting and evaluation process is meticulously orchestrated. The test schedule is planned in advance and incorporated into the institute calendar of events, with assessments scheduled in the 5th, 10th, and 15th weeks of each semester.

The formulation of question papers adheres to the guidelines established by the institute for various programs including BE, MBA, MTech, and MCA. Ensuring Course Outcomes (COs) covered in choice of questions. To enhance the cognitive rigor, questions are curated in accordance with the revised Bloom's Taxonomy levels.

To ensure the fidelity and fairness of the evaluation process, a dedicated Question Paper Scrutiny Committee (QPSC) is constituted. This committee meticulously reviews the question papers, taking into consideration both content and structure. The scheme and solutions accompanying the papers are made accessible to students and are thoroughly discussed in the classroom, fostering a holistic learning experience.

In line with our commitment to transparency and efficiency, an effective grievance redressal mechanism is established for internal examination-related concerns. The internal assessment for theoretical subjects is conducted through three tests distributed across the academic calendar. The final internal assessment marks are derived from the average scores of these tests, creating a comprehensive and well-rounded evaluation.

The Department's internal assessment process is a collaborative effort involving the Head of Department (HoD), course instructors, and the QPSC. At the outset of each academic year, two faculty members are designated as Test Coordinators, responsible for formulating a comprehensive timetable for test dates. This schedule is communicated to students well in advance, aiding in effective preparation. The papers are reviewed meticulously, considering aspects like question pattern, coverage of learning outcomes, marks allocation, and alignment with Bloom's Taxonomy levels.

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.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

Institution is having Vision and Mission. Based on the vision and mission of institute department vision and mission are framed. Each departments having program specific objectives and program educational objectives. Program outcomes are defined separately to under graduate programs , MBA and MCA. For each courses in the curriculum course outcomes are defined. Normally, 4-5 course outcomes are defined for each courses. Once courses are defined, it is mapped to program outcomes.

Program outcomes cover following parameters:

PO - 1 Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO - 2 Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO - 3 Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO - 4 Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO - 5 Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO - 6 Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO - 7 Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO - 8 Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO - 9 Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO - 10 Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO - 11 Demonstrate knowledge and understanding of the engineering and management principles and

apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO - 12 Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

All the POs and COs are published in the institution website.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

Normally 4-5 COs are written for each course and CO-PO mapping is carried out for each course.

CO attainment for the course is computed based on both direct and indirect attainment.

For direct attainment 50 % of Contentious Internal Assessment (CIE) and 50 % of Semester End Examination (SEE) are considered.

For indirect attainment course end survey is carried out.

Final CO attainment is 90% of the direct attainment and 10% of indirect attainment.

CO attainment Calculation:

1. Course Outcome Evaluation through Continuous Internal Evaluation (CIE)

The CIE question papers are set so as to cover all the CO's.

The attainment of a particular CO is calculated using the following equation.

% CO ATTAINMENT through CIE= $(X/(Y * Z)) * 100$ Where X is the total marks scored by the students in a particular CO from all tests, Y is the maximum marks allocated to that CO and Z is the no. of students attempted that CO.

1. Measuring Course Outcomes attained through University Examinations (SEE)

% CO ATTAINMENT through SEE = Class average marks in percentage

From each course, the final CO attainment is computed as follows,

Direct Attainment (%) = (0.5 X CO attainment through SEE)+ (0.5X CO attainment through CIE)

Indirect Attainment(%) = Course exit survey

% CO ATTAINMENT = 0.9 X CO attainment (Direct) + 0.1 X CO attainment (Indirect)

Setting CO Attainment Target

TARGET for CO1-CO5

60% Students score more than the class average percentage = 3

40% Students score more than the class average percentage = 2

20% Students score more than the class average percentage = 1

Direct PO assessment:

Based on the CO-PO mapping, PO attainment for all the core courses are computed.

Indirect PO assessment:

Program exit survey and Alumni survey are considered

PO and PSOs attainment levels are computed based on 90 % of direct assessment of average of all the courses + 10 % of indirect assessment.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response: 96.14

2.6.3.1 Number of final year students who passed the university examination year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
953	888	936	880	899

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
975	946	967	892	959

File Description	Document
Institutional data in the prescribed format	View Document
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response: 3.42

File Description	Document
Upload database of all students on roll as per data template	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 180.45

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
39.12	42.64	43.50	33.46	21.73

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

Centre 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. CIE aims to create innovation, startup & Entrepreneurial ecosystem at JNNCE and in & around Shivamogga by providing all the required facilities like incubation support, startup space, Mentors connection, Support on IPR & Startup Registration, Investors Connection, assistance in building Business plan, Financial Projection, team building, product launch, marketing, scale-up etc., CIE Also provides platform to setup Development Centres & Centres of Excellence by various startups, Industries, Agencies & MNCs at JNNCE Campus. NewGen IEDC, NAIN Center, MSME Business Incubator, Institution's Innovation Council, JNNRIC, JNNCART are some of the initiatives/Platforms of CIE.

1. Centre for Innovation and Entrepreneurship (CIE) :

Center for Innovation and Entrepreneurship (CIE) was established in the year 2018 with the intention of providing a platform for students and faculty members of JNNCE to innovate and promote entrepreneurship. CIE is supported by various Government Agencies, Institutions, Industries,

National Education Society (NES) Management and JNNCE Faculty, Alumni and Students.

2. NEWGEN IEDC :

EWGEN IEDC is Established at JNNCE in 2018, New Generation Innovation and Entrepreneurship Development Centre (NEWGEN IEDC) is an initiative of National Science and Technology Entrepreneurship Development Board (NSTEDB) and Department of Science and Technology (DST), Government of India to promote innovation and Entrepreneurship among students. The students are encouraged to take up innovative projects leading to the development of a product which can be commercialized.

3. NEW AGE INCUBATION NETWORK CENTRE (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.

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.

5. JNNCART :

JNNCE, located at the gateway of Malnad region known for its agriculture, is renowned for production of a myriad of agricultural products. With a view to increase the agricultural output, Jawaharlal Nehru New Centre for Agriculture and Rural Technology (JNNCART) was established in the year 2016-17 which aims to provide opportunities for faculty members and students of JNNCE to improve the existing farming technologies and/or developed new methods/equipment which result in higher yields and better quality of agricultural products.

JNNCE Journal of Engineering and Management (JJEM)

To encourage research and publication, the institute has launched its own online bi-annual research journal, titled “JNNCE Journal of Engineering & Management” (JJEM) in October 2017 to publish research papers from scholars, both from India and abroad. Only very few Institutions across India have their own Research Journal, JNNCE is one among them.

Institution has created an ecosystem of 9 research center and under the research center 38 research supervisors and 82 faculty members persuing the research.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 326

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
79	65	62	83	37

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 1.82

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
127	78	62	71	58

File Description	Document
Link to re-directing to journal source-cite website in case of digital journals	View Document
Institutional data in the prescribed format	View Document

3.3.2**Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years****Response:** 0.59**3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
23	16	24	26	40

File Description	Document
List of chapter/book along with the links redirecting to the source website	View Document
Institutional data in the prescribed format	View Document
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	View Document

3.4 Extension Activities**3.4.1****Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.****Response:**

Extension activities were carried out through NSS and Red Cross. In these students were exposed to rural situations through annual special camps to get the first-hand perspective of the rural society and livelihood situations. Daily schedules included early morning NSS prayer, shramadana and awareness

programmes. The morning NSS prayer sensitised them about their role as part of the community and broadening of inclusiveness in the larger societal setup. The Shramadana included activities like public drain cleansing, water sources cleansing, plantation programmes, organising human, animal health camps, blood typing/donation camps and other public useful activities such as seed ball preparation, numbering of trees, campus cleaning for the benefit of rural community.

The awareness programs like educating rural people regarding digitization, fuel resources, biofuel resources utility, environmental issues, personality development. Covid vaccination drive was organised both for students and staff during pandemic. The camp routines were planned in such a way as to experience the rural life and plan around the available resources to solve the local issues and bring together all sections of society under one roof for self-sustenance in various fields through the help of subject experts in relevant areas. The appropriate interventions in areas like plantation, water body maintenance, water table recharge, human and animal health and agriculture were planned with relevant institutions, student volunteers and public to augment the impact of activity and awareness program. IEEE student chapter also adopted the government school to provide knowledge enhancement among school childrens.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

College encourages students to participate in extension activities organized by the government/government recognized bodies. Students participated in technical symposium organized in different parts of the Karnataka and won prizes. Students were encouraged to participate in national and state level project exhibitions and bagged best project awards in consistently over the years. Many students participated in technical quiz competitions and brought laurels to the college. Students from different branches of JNNCE have participated in KSCST sponsored state level project exhibitions and won best project awards.

Karnataka State Bioenergy Development Board recognized bio fuel research activities in the institute and following amount is released

Year	Amount
2017-18	7,00,000
2018-19	4,50,000

2019-20	3,00,000
2020-21	1,50,000
2021-22	3,80,000

Various development activities of the institute recognized for funding: from recognized bodies.

	FDP		International Conference		Workshpo		Symposium	
		Total		Total		Total		Total
2017-18	300000.00	300000.00	*	*	*	*	*	*
2018-19	*	*	100000.00	100000.00	156000.00	156000.00	*	*
2019-20	*	*	50000.00	50000.00	*	*	*	*
2020-21	93000.00	*	80000.00	80000.00	*	*	*	*
	93000.00	*	*	*	50000.00	50000.00	*	*
	93000.00	*	*	*	*	*	*	*
	93000.00	372000.00	*	*	*	*	*	*
2021-22	93000.00	*	*	*	80000.00	80000.00	50000.00	*
	93000.00	*	*	*	*	*	32000.00	*
	93000.00	*	*	*	*	*	58400.00	140400.00
	93000.00	*	*	*	*	*	*	*
	93000.00	465000.00	*	*	*	*	*	*

File Description	Document
Upload Additional information	View Document

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 168

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
46	23	42	45	12

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 18

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

Class Rooms: The institution has sufficient number of well furnished, well ventilated, spacious class rooms with LCD Projectors for conducting theory classes and area is as per norms. Exclusive language lab with audio, video facility, separate dept. library, each dept. as a separate seminar hall equipped with LCD Audio visual facilities.

Laboratory: All laboratories are well equipped with LCD Projectors and well maintained both for syllabus oriented practical 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 equipment for each dept. in the institution. The process of calibration and precision measures are handled by the expert agencies to up keep all the electronics equipment.

Computers: The institution has a comprehensive policy which is governed by the IT planning and monitoring committee comprising of head of the institution, HOD of CS/IS/MCA, Networking administrator system analyst and programmers. 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 simultaneously login to single access point.

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. Every year 3 days' cultural event JANVEY is conducted.

JNNCE Sports department aims at all round development of student's personality

Through sports activities. It has required infrastructure to enhance the sports activities like indoor and outdoor sports facility. The sports department actively organizes inter department sports activities annual sports day, sports events. Sports Department/Sports Ground /Sports Hall State of art sports facilities are provided that makes 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.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 63.26

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
433.09	95.49	520.54	436.30	228.23

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.2 Library as a Learning Resource**4.2.1**

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

- Separate Library block spread over 1675.87 sq.mts sq.mts with separate lending section, book bank section and two reference sections.

Library Infrastructure Details

Sl.No.	Particulars	Specifications
1	Carpet area of Library	1675.87 sq.mts
2	Reading space	583.84 sq.mts
3	Number of seats in reading space	200
4	Number of users per day (Issue)	135 (average)
5	Number of users per day (Reference)	60 (average)

- Library is fully digitized to enable Online Public Access Catalogue (OPAC).
- The College library has its dedicated website: www.libinfo.jnnce.ac.in (ILMS)
- <http://jnnce.ac.in/jnndemo/library.html>

Books and volume

Sl.No.	Particulars	Number
1	Total Books(Hard bound)	1,19,418
2	E books	2,1113
3	DELNET e books volumes	15,534 titles.

Journals Details

Sl.No.	Particulars	Number
1	International	28
2	National	40
3	E journals	7,400

- The Institute is a member of VTU Consortium to access both national and international e-journals.
- The Institute is a member of DELNET, to provide inter-library loan services.
- The Institute is also Member of NDL, (National Digital Library)
- Open Access system is available for reference section.
- Library timings are suitably fixed to enable the students for reference work prior to and during examinations
- Every department has maintained a library where programme-specific books are made available for students

Digital Library:

- The Institute provides Digital library facility for the faculty, research scholars and students.
- Digital Library facility is provided in a separate section of the Library.
- The facilities include an exclusive server, intranet/ internet, computer systems (23 nos) with an exclusive space.
- Facility is made for Massive Open Online Courses (MOOC) and NPTEL resources, which are

used both by the students and the faculty. The institute is recognized as NPTEL Centre.

MBA Department Library Information

Learning Resources :

- The MBA department library has a carpet area of 138 sq.mts, with reading-room seating capacity of 60.
- The learning resources in the form of reference books are available for students, faculty and researchers.
- The well-equipped library of the department provides books across all titles of management studies.

- **Details of Books**

Details of Books

Sl. No.	Sources	Number
1.	Total No. of Volumes of Text Books	8,497
2.	Total No. of Books with Single Title	4,230

- Journals are subscribed on annual basis, to facilitate state-of-art literature review and to enhance student's awareness on current topics and help them in their seminars, project work and examinations.

Journals Details

Sl. No.	Sources	Number
1.	International	3
2.	National	23

- Reports on financial matters published in dailys are made available to students to improve awareness on current issues.
- Our alumini richly contributes to treasury of books which are maintained separately with due recognition to donars.
- Book Bank facility is extended to students.

- **Source Book Scheme:**

- Students are provided with source books to facilitate easy reference of syllabys contents pertaining to all six courses taught in the first semester.

Digital Library:

- The Department provides Digital library facility for the faculty, research scholars and students.
- The facilities include adequate computer systems with Internet facility

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

JNNCE has consistently emphasized the establishment of top-tier IT infrastructure and the development of applications to support academics and research. The campus has been equipped with internet service boasting a 500 Mps bandwidth, ensuring access to knowledge and learning resources at any time. This initiative aligns with the demands of both students and faculty. Over the past five years, there has been a significant enhancement in internet bandwidth, escalating from 60 Mbps to 500 Mbps. This improvement aims to facilitate academic and research activities with enhanced connectivity. The campus has seen an expansion of over 1000 LAN points, spanning across computer and office spaces. A notable upgrade has been made to the campus backbone network, elevating with additional 2 lines (300 Mbps and 200 Mbps) FTTH connections, accompanied by the deployment of Wi-Fi access points. These access points are strategically positioned in academic and hostel blocks, providing continuous 24x7 internet service. To efficiently manage network operations, a committee headed by the Principal has been established. This committee plans and oversees the hosting of all Rack & servers, ensuring uninterrupted power supply. These servers and networks offer computing facilities along with network connectivity throughout JNNCE buildings. The server infrastructure encompasses 4 high-power racks and tower servers with a total capacity of 4 TB SAN storage. The committee, composed of system staff members, operates collaboratively to manage network maintenance activities within the institution. For any inquiries related to system services, network issues, or hardware problems, individuals can approach the departments' system staff. The staff members promptly address and resolve the issues, communicating the solutions back. The Network Coordinator supervises this process until all raised concerns are resolved. For coping with an increased load on the network and applications serving academic and administrative processes, UTM Firewall for 500 users has been deployed to ensure a secure campus network. Additionally, the campus boasts over 1200 desktops in campus, catering to students and faculty. JNNCE has also implemented a biometric system to manage staff attendance across the campus. Furthermore, an Annual Maintenance Contract (AMC) has been put in place for the upkeep of IT equipment and UPS units. Security, monitoring, and emergency response are ensured through the presence of more than 250 CC Cameras in every classroom and around the campus. Classroom environments are enhanced with the inclusion of projectors, fostering improved visual presentations, interactive learning, and the seamless integration of multimedia components. Within the campus, more than 52 switches have been deployed, serving the purposes of device connectivity, streamlined data transfer, support for multimedia content, as well as remote network management.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2**Student – Computer ratio (Data for the latest completed academic year)****Response:** 3.2**4.3.2.1 Number of computers available for students usage during the latest completed academic year:**

Response: 1024

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.4 Maintenance of Campus Infrastructure**4.4.1**

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 32.44**4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
180.46	90.21	217.27	249.97	140.94

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 72.28

5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
3257	2120	2322	2203	2356

File Description

Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: B. 3 of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	View Document
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 40.65

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
3277	1741	532	691	652

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4

The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

- 1.Implementation of guidelines of statutory/regulatory bodies**
- 2.Organisation wide awareness and undertakings on policies with zero tolerance**
- 3.Mechanisms for submission of online/offline students' grievances**
- 4.Timely redressal of the grievances through appropriate committees**

Response: A. All of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	View Document
Proof related to Mechanisms for submission of online/offline students' grievances	View Document
Proof for Implementation of guidelines of statutory/regulatory bodies	View Document
Details of statutory/regulatory Committees (to be notified in institutional website also)	View Document
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 52.37

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
566	487	417	491	425

5.2.1.2 Number of outgoing students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
953	888	936	880	899

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	View Document
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 1.61

5.2.2.1 Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)

2021-22	2020-21	2019-20	2018-19	2017-18
14	9	2	9	1

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.3 Student Participation and Activities

5.3.1

Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 102

5.3.1.1 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 wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
12	9	23	37	21

File Description**Document**

Upload supporting document

[View Document](#)

list and links to e-copies of award letters and certificates

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 38.6

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
31	5	47	48	62

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1

There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

JNNCE College having its own vast heritage and excellence has helped developed leaders of tomorrow. In its glorious existence of over past three Decades, it has produced more than 17,000 Graduates who have contributed immensely to the industry both in India and abroad. JNNCE Alumni association has a wide base of highly renowned Alumni members. They are closely associated with the institution and visit the institution regularly. They are exposing our students to the state-of-the-art technology through expert lectures, training programmes, workshops, industry visits and placement activities. A vast number of the JNNCE's alumni have gained unique distinction through success in their professions, service to the industry, and contribution to their communities. A large number of bright and capable scholars, having graduated from the Institute, have distinguished themselves by means of their extraordinary accomplishments in their chosen professions and by their contributions to the society at large. To recognize, honor and felicitate outstanding former students and to celebrate the achievements of these inspiring achievers and contributors who have made their Alma-mater proud, JNNCE and JNNCE Alumni Association (JNNCEAA) have instituted the Distinguished Alumnus Award since 2018.

Distinguished Alumnus Awards

Category 1 – Excellence in Entrepreneurship

Category 2 – Professional Excellence - Men

Category 3 - Professional Excellence - Women

Category 4 – Excellence in Academics

Category 5 – Excellence in Societal/Community/General Service

Category 6 - Excellence in Technology Innovation / R & D

Category 7 - Excellence in Alma-mater Associate ship

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

The Vision & Mission of Jawaharlal Nehru New College of Engineering (JNNCE) are: Vision To be a pacesetter institute in technical & management education and research for producing highly competent engineers, managers & entrepreneurs to meet the needs of industry and society. Mission ? Impart quality education through flexible and innovative teaching - learning process. ? Enable and ignite young minds to excel in their career & life with entrepreneurial spirit, professional ethics and human values. ? Facilitate invention-based research and collaborate with industries to address societal needs. A Quality Policy has been formulated that emphasizes state of art technology support, best possible educational infrastructure, encourage R&D, consultancy and improve teaching learning process by introducing innovative pedagogical and student interaction mechanism. Functioning of the Institution is transparent through well-defined rules and regulations for governance. The voice of every individual finds place at its appropriate platform, which paves ways to participative Management and individuals can take decisions on the matters concerned to them. These provisions of governance is leading to effective leadership. The Governing Council (GC) is an integral part which steers the institution towards academic excellence with a holistic approach. The governance of the Institution is reflective of an effective leadership in tune with the vision and mission statements. The established policies in the Institute ensure the integrity and effectiveness of the governance and administration. The Institute believes in shared leadership and participative decision-making approach. This reflects the decentralization of its operations and delegation of the necessary authorities and responsibilities. GC is established in accordance with AICTE norms.

The Institute has constituted important statutory and non-statutory committees at the institute level, designating faculty members as Chairmen/Conveners/Members, with appropriate powers, duties and responsibilities. Ensuring institutional success, college decentralized authority to the various Heads of the departments, Senior faculty with experience, Heads the corresponding department and ensures the need for changes as per the strategic planning. HODs focus on teaching-learning, Pedagogy, improvement of results, Introduction of new courses, increase in student intake, establishment of new labs, enhancing industry connectivity for placement, internships etc Institute promotes a culture of participative management at all levels right from the students up to the senior members of faculty. ? The institution believes in the participation of faculty, Principal and Management in planning as well as execution. ? Management representatives are members of Governing body, Purchase committee, Hostel committee and Infrastructure committee. ? There are four levels of participation ? Student through the Student Council ? Faculty level ? HODs level ? Management level To illustrate the same, 1. Governing Council: The Principal, Dean-Academics, and senior faculty members are the members of the GC 2. IQAC: Chaired by the Principal, the IQAC consists of senior faculty members at the college level as well as designated faculty representatives from each department. 3. Institution's Statutory and Non statutory

Committees: Faculty membership in the statutory and non-statutory committees such as Grievance Redressal cell, Anti Ragging Committee, Committee for SC/ST, DAB/PAC etc.,

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

Top management assigns independent entities to monitor the academic leadership in the institute. JNNCE has decentralized its activities for effective implementation of its action plans. It believes to act together within the framework of its individual and collective responsibilities, by involving all the faculty members at the department and Institution level. HODs are nominated by rotation on tenure basis which provides an opportunity to all the Senior Professors. To bring the sense of responsibility faculty members are assigned as heads/members of one or the other committee.

Key action plans of the institute discussed and disseminated in consultation with the HODs of various departments. These are action plans are further deliberated by the HODs in consultation with their faculty. These are again consolidated by Principal, and NES Management. JNNCE thus maintains an organizational structure where the NES Management is the supreme authority of the organization who appoints the Principal. The Principal of the college is the highest academic authority responsible for the academic process. Heads of departments report to the Principal. HODs have operational autonomy at their department level to conduct various academic activities which reflect in their departmental academic calendar.

Policies

The institution

- Has well-defined service rules, policies and procedures. All circulars, notices and other communications are disseminated among concerned stakeholders; also displayed on the notice boards. Copies of these communications are maintained in the Establishment section of Administrative Office.
- Appreciates the importance of Human Resources to further propel the healthy growth of the

institute. Apart from fulfilling the manpower requirements of the institute/ departments, it ensures proper dissemination of policies amongst staff of all cadres by way of orientation sessions for newly recruited staff, along with maintenance of all records pertaining to staff.

- Apart from having a published HR manual within the Institute, that details the procedures relating to recruitment, promotion, career progression, increments and welfare & benefits, there are detailed policies for:
 - Staff working hours and Biometric Attendance registration
 - Leave Application processing
 - Establishment, payroll
 - Budgeting & accounting
 - Curricular & extra-curricular activities
 - Grievance Redressal
 - Research, publication & consultancy
 - Purchase
 - Policies are properly documented and awareness level as to these policies is quite good among faculty and students.

• **Service Rules**

- Since inception, the institute is following AICTE / VTU norms and also Karnataka State Civil Service Rules (KCSR) for its administrative purpose.
- The NES management has constituted a committee in 2017-18 to draft the Human Resources Manual for the institution. The manual contains detailed policy and procedure for recruitment, duties and responsibilities of staff, salary and incentives, benefits, leave policy, promotional procedures and service record maintenance of employees.
- Human Resource Manual was published and was effective from 1st June 2018.
- Each employee has been issued a copy of HR Manual for his/her information, reference and records.

File Description	Document
Upload Additional information	View Document
Institutional perspective Plan and deployment documents on the website	View Document
Provide Link for Additional information	View Document

6.2.2

Institution implements e-governance in its operations

- 1. Administration**
- 2. Finance and Accounts**
- 3. Student Admission and Support**
- 4. Examination**

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

1. Faculty Performance Appraisal

The Institute recognizes the importance of the dedicated faculty for realizing its vision. Institute has a HR policy for procurement and development of faculty and staff. Faculty is encouraged for qualification enhancement as well as research initiatives. Performance appraisal of faculty is done annually. The process comprises of 4 levels. They are,

- Self – appraisal
- Faculty appraisal by Director
- Faculty Appraisal by Principal
- Evaluation by Career Advancement Scheme

Appraisal is based on:

- Teaching
- Professional Development
- Research projects & Publications
- Personal conduct and hygiene

The faculty and the API score sheet will be filled up for every semester after the announcement of the

University exam result and the performance is tabulated.

Assessment period and scoring pattern: It is annual performance review with the scoring pattern standardized to a maximum of 150 points. This is made known to the faculty through the HR manual.

Non- teaching staff

The college has an appraisal system which is very fair and transparent. The

faculties are evaluated by using four stage processes namely:

- Self-evaluation by Non-Teaching Staff
- Evaluation by HOD taking into consideration various criteria
- Review by Committee comprising of Principal and screening committee.

Welfare measures for teaching and non- teaching staff

a) Gratuity: All the employees who have worked at JNNCE for a minimum period of 5 years re eligible for this benefit. JNNCE is extending Gratuity of Rs.20,00,000/- (maximum amount) to all its employees as per Govt of India notification.

b) Employee Provident Fund (EPF) & Employee Pension Scheme: Employee Provident Fund (EPF) & Employee Pension schemes are provided to all the eligible employees as per Central Government norms.

c) Employee State Insurance: JNNCE is extending ESI facility for all the employees earning salary less than Rs. 21,000/- per month.

d) Group Personal Accident Insurance: Employees are covered under Group Personal Accident Insurance with Sum Assured of Rs.600000/-,Accidental Hospitalization expenses of up to Rs 100,000/- and Rs 20,000 /- for OPD Treatment or actual claims whichever is lower.

e) Maternity Benefit: Lady 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.

f) paternity Benefits: 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.

g) Advance Salary benefit: 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 instalments.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.3.2

Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 4.72

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
06	07	06	16	09

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	View Document
Audited statement of account highlighting the financial support to teachers to attend conferences / workshop s and towards membership fee for professional bodies	View Document

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response: 30.06**6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
140	125	51	65	50

6.3.3.2 Number of non-teaching staff year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
93	94	104	106	105

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	View Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.4 Financial Management and Resource Mobilization**6.4.1**

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

Coded Budgeting System - The institute has a well - defined mechanism to monitor effective and efficient utilization of available financial resources for the development of the academic processes and

infrastructure development. Budget planning and budget reviews are continuous process which are conducted annually usually in the month of March.

The Institutional calls for the budget from Heads of departments before the start of the financial year (i.e.) in the month of April and the departments are informed to submit the budget under the heads Lab maintenance, library resource procurement, Research, Conduction of Conferences and workshops etc., Subsequently, the budget review is held by the Principal and Management and the final budget is approved by the Management. Institute adheres to Utilization of budget approved for academic and administrative expenses by the management.

Grants - The Institution has availed various grants provided by the statutory bodies both at Central Government / State Government. The Institute has got Sponsored Funded Research Projects cy from funding agencies like DST, AICTE, DRDO, SEBI etc.,

External Audit - The institute has ensured that 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.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The main aim of the **Internal Quality Assurance Cell (IQAC)** is to ensure the imparting of the technical education using the state-of-the-art technology, prepare the students and faculty members as per the

industry needs and face the challenges, as per the quality policy of the institute.

Some of the contribution of IQAC for overall improvement

- Implementation of e-administration

The academic related activities from subject allocation to effective delivery are through in house software system (JAMS). IQAC is monitoring all the actions of academic through online system. Time table, Subject allocation, course delivery, attendance monitoring, question paper scrutiny, marks entry, performance analysis of internal marks, feedback are effectively implemented. All the reports to IQAC from various programs submitted and made available in a software system.

- Implementation of outcome based education process

The quality policy for smooth and effective conduction of outcome based education in the institute is implemented through IQAC. The continuous internal assessment procedures, time table, lab assessment, internship assessment, project assessment policies, and rubrics are planned. T

- Verification of the implementation of the processes established.

Periodically, academic assessment committee through IQAC verify all the process in place

- Development of faculty through supporting policies and procedures towards achieving higher qualifications, short-term courses, participation and presentation in seminars and conference.

Department review achievement of students, faculty and other contributions in every month and submit to the detailed report to IQAC. In IQAC meetings, contributions of each department are reviewed. The faculty annual appraisal system is designed and implemented through IQAC to assess faculty contribution for overall development of the institute

- Mentoring system is revamped and effectively implemented

Mentoring system is established for Counseling and guiding the students in their personal/academic matters/dispatch of progress reports. For each faculty 15-20 students are allotted for mentoring. Each mentoring meetings are recorded and action plan are reviewed. Based on the need the Remedial Coaching classes for the slow learners are carried out

- Encourage R&D, consultancy and improve teaching learning process.

Through IQAC, annual performance indicators for faculty appraisal are designed to motivate faculty towards research. Number of faculty enrolled for research and number of publications significantly increased. External funding for faculty development program, conferences, workshop also progressively improved.

- Student development activities

IQAC periodically review placement activities conducted by the placement cell. Analysis of the placement trainings, number of placements, and number of companies takes place regularly. Interaction

with students also carried out to discuss the grievances and motivate them for the betterment.

Students are provided the option to opt multidisciplinary courses as elective specified by the curriculum. Institution provided the open elective choice based system to students through IQAC.

- Admission analysis

IQAC periodically monitors the admission statistics of the institute. Emerging courses like artificial intelligence and machine learning, robotics and artificial intelligence are started.

IQAC committee consists of senior faculty members, management member, alumni, industry expert and student. Earlier years more frequency meetings were conducted. Now it is restricted to four. The calendar of the meeting will be announced at the beginning of the year.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5.2

Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
- 2.Academic and Administrative Audit (AAA) and follow-up action taken**
- 3.Collaborative quality initiatives with other institution(s)**
- 4.Participation in NIRF and other recognized rankings**
- 5.Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

Response: A. Any 4 or more of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	View Document
NIRF report, AAA report and details on follow up actions	View Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link to Minute of IQAC meetings, hosted on HEI website	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

The Institute has significant enrollment of male and female students. Institute is providing all amenities to every student by providing equal opportunity to participate in learning and other activities. To overcome societal gender bias, several amenities and programs are being conducted for women. Every girl admitted to JNNCE is encouraged to participate in curricular and extracurricular activities without gender bias. The institute has ensured gender equality in recruiting women in all hierarchies of the organization. To enhance safety CCTV cameras are installed at various places in the campus as well as in ladies' hostel. Several awareness programs for women are organized by the institute. Following are the Specific facilities provided for women:

- Mentoring and Counselling mechanisms (Dedicated Counsellor in the Campus)
- Anti-sexual Harassment Committee
- 450 capacity exclusive Hostel Facility for Women
- Dedicated Transport Facility for women's hostel
- Rest rooms for girls in all blocks
- Waiting rooms for girls
- Ladies staff Recreation room
- Institute is organising specific programmes related women sensitisation.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.1.2

The Institution has facilities and initiatives for

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and nondegradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

Response: A. 4 or All of the above

File Description	Document
Policy document on the green campus/plastic free campus.	View Document
Geo-tagged photographs/videos of the facilities.	View Document
Circulars and report of activities for the implementation of the initiatives document	View Document
Bills for the purchase of equipment's for the facilities created under this metric	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

- 1.Green audit / Environment audit**
- 2.Energy audit**
- 3.Clean and green campus initiatives**
- 4.Beyond the campus environmental promotion activities**

Response: A. All of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	View Document
Policy document on environment and energy usage Certificate from the auditing agency	View Document
Green audit/environmental audit report from recognized bodies	View Document
Certificates of the awards received from recognized agency (if any).	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance

and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

Institute is making efforts to provide inclusive environment where students and employees feel comfortable in sharing their viewpoints. Both students and employees are encouraged to engage in open conversations inside the campus. Students' grievance cells help in resolving the student issues. The mentoring mechanism as well student counselling units of the institute are effectively used to inculcate the duties and responsibilities of the students. National Service Scheme (NSS) as well as Youth Red Cross Society (YRC) engage students in bringing harmony, sense of national integrity and inculcate social service among students through various programs. Institute encourages every student to participate in different sports activities to facilitate good social life. Well-maintained sports facility at the institute helps students to participate in various sports events held outside the institute as well in the campus. District biofuel information and demonstration centre facilitate the students to understand socio-economic aspects of sustainable energy sources by providing information on biofuels as well by organizing various awareness programs and projects.

Sensitizing students on our constitutional rights, values, duties, and responsibilities is one of the primary educations given at the institute through various means. Sensitization of students and employees of the Institution to the constitutional obligations is done through curriculum as well as through extra-curricular activities. The University has introduced a compulsory course on the Constitution of India at Degree level to create awareness and constitution obligation. Also, all students take a course on Environment studies in their first year which gives them insight into environment acts, wildlife protection act, forest act, global environmental concerns etc. The civic sense, duties and responsibilities are taught to students and employees by organizing activities highlighting the India's independence struggle, ethics and human values, road safety and traffic awareness, firefighting techniques. National festivals (Independence Day, Republic Day, and Gandhi Jayanthi) are celebrated every year to highlight the struggle of freedom and the importance of Indian Constitution.

B-School Social Responsibility (BSR)

- To inculcate a sense of social responsibility & contributory participation among students
- "Save-a-rupee-a-day" and utilize the collections to donate assistance in kind to underprivileged children studying in neighbourhood schools

Sl. No	Program	Date
1	Distributed Rice, fruits, Mattress, Pillow, Diapers the Rs. 19,859 to Nova Trust	03/01/2023
2	Donated Grinder and Sports equipment worth Rs 10,000 to Madhava Nele	17/10/2020

3	Donated Rs. 26,000 to Taranga Deaf and Dumb Children's Special School Shimoga.	06/07/2018
File Description		Document
Upload Additional information		View Document
Provide Link for Additional information		View Document

7.2 Best Practices

7.2.1

Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practice-1

1. **Title of the Practice:** Digital transformation for automatic academic and administrative management of the college

1. **Objectives of the Practice:** JNNCE runs various courses like Engineering, MBA, MCA and MTech. More than 3000 students' study and more than 400 employees work here. Hence ensuring good academic policies, transparent and effective administration of employees, their profile, mentoring of students and acquiring data for quality improvement analysis of the institution. Hence a sophisticated digital transformation tool is required for management.

1. **Context:** College follows a decentralized model for administration and academic monitoring. Faculty members are assigned the responsibility to coordinate the different academic and administrative activities. Coordinators are monitored and supervised by HODs, in turn HODs are responsible to report to Principal. These processes are assisted by a user-friendly tool called JAMS (JNNCE Automation and Management Services).

1. **Practice:** JNNCE Automation and Management System services (JAMS) helps all stakeholders to get the information and data at the click of a button. JAMS comprises of Academics Automation module, Administration Automation module, Accreditation Readiness Engine (Supports NBA, NAAC, NIRF or other). Following is the various functionalities available for different stakeholders.

For faculty: There is an interface for faculty to carry out regular academic activities like lesson plan preparation, lesson plan execution, course diary generation, attendance marking (both regular and special), interfaces of YouTube playlists under JNNCE channel, scrutinizing process of test question papers, upload test question papers and schemes with solutions, record test marks, upload assignment questions and record marks for the same, upload notes/teaching material. Faculty can also check individual student results, perform CO-PO-PSO Attainment, check student and course end feedbacks through JAMS. Project, Technical Seminar, and Internship Viva Management is also available for faculty. Faculty can also upload Model papers, previous year Exam papers and Question Bank which can be accessed by students. Faculty can upload their academic credentials like Publication details, Workshop/FDP/Seminar/Symposium attendance, Funded project details, Expert talks delivered, Valuation Duty, Achievements and others using JAMS. Following are the functionalities of JAMS made available to different categories.

For Students: Students have access to lesson plan and execution. They can check their class timetable. They have notice board to see information and notifications by college and department. They can check their attendance and internal assessment details. They can register to different events conducted by college. They can also access notes/study materials uploaded by faculty; check videos uploaded by faculty. They can upload the certificates of curricular, co-curricular and extracurricular activities they have participated. They can check room allocated during exams and have access to test and exam timetables. Students can also participate in open elective selection, feedback surveys, project work, technical seminar and internship activities using JAMS.

For Parents: Parents can check the Attendance status of their ward regularly. They will also get notifications regarding events in the college. Further daily attendance status of the wards is sent as SMS to parent. Parents can also track internal assessment schedule, marks scored by their wards in tests and other assessments. Examination details are also notified to parent.

For Administration: Seamless and automatic administration process is done using JAMS. Authorities can track each academic process of faculty through JAMS. Biometric data is immediately available to all employees and can be monitored by authorities. Examination management including seating arrangement, faculty allocation and report generation is done automatically with JAMS. Infrastructural details can be checked and entered using JAMS. Various role representing different college committees are created and are linked with other databases. Effective mentoring of students is also possible with JAMS. Tracking of students pursuing higher education, result analysis, placement activities can all be tracked and analysed using JAMS software.

5) Evidence of Success: The tool is greatly successful particularly during COVID pandemics. Academic monitoring is done online and is also reaching students and parents effectively. The academic progress is continuously monitored online. Further interfaces to upload class videos, schedule online tests, upload notes, upload Question Banks, student mentoring have all been effective.

6) Problems Encountered and Resources Required: Continuous upgradation of the software is done

on need basis and on the feedback by the users.

Best Practice 2

1. Title of the Practice: Evolving JNNCE as a “Green Campus”

2. Objectives of the Practice: The goal is to promote “Green Campus” and become a role model for the educational institutions and society in general.

Green solutions:

- Green building design.
- Renewable source of energy for electricity, Demand side management, energy conservation, e - administration, etc.
- Biogas from canteen, hostel waste, night soil, solar energy for cooking.
- Rainwater 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 requirements. Percolation of rainwater 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.
- Wastewater treatment system supplies water for secondary usage thus reducing the freshwater requirement.
- Solid waste management system handles the biodegradable waste and converts it into good manure.
- Promotional activities are being carried out for public and other institutions through, “Chirantana Green Technology Centre” Established in our college.

5. Evidence of Success:

- Self-reliance on water management,
- Reduction in electricity bill has been achieved.
- Pollution free campus

6) Problems Encountered and Resources Required: No problems encountered

File Description	Document
Any other relevant information	View Document
Best practices as hosted on the Institutional website	View Document

7.3 Institutional Distinctiveness

7.3.1

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Apart from the regular curriculum, in JNNCE, the students are groomed to be best engineers by providing an ecosystem in which they learn by experience. In curriculum students must carry out the projects in partial fulfilment for the award of degree. These projects are carried out under the supervision of a faculty member. Institute encourages students to choose industry-based projects. Every engineering department in the JNNCE has a professional association to enhance technical as well soft skills. Apart from this, professional bodies like IEEE Student Chapter, Institute for Indian Foundrymen are organising several programs and competitions for students to enhance their learning. College is also successful in conducting Internship activities for students for past 3 semesters in association with Ekathva Innovations Pvt. Ltd. Students are trained in latest technological areas of Python like Django, Flask, Semantic Web, Semi Structured data access, Rest API and others and carry out a real time project and submit it as a part of Internship activity.

JNNCE supported the innovation and entrepreneurship activities through Centre for Innovation and Entrepreneurship (CIE) 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. CIE aims to create innovation, startup & Entrepreneurial eco system at JNNCE and in & around Shivamogga by providing all the required facilities like incubation support, startup space, Mentors connection, Support on IPR & Startup Registration, Investors

Connection, assistance in building Business plan, Financial Projection, team building, product launch, marketing, scale-up etc., CIE Also provides platform to setup Development Centres &Centres of Excellence by various startups, Industries, Agencies &MNCs at JNNCE Campus. NewGen IEDC, NAIN Center, MSME Business Incubator, Institution’s Innovation Council, IP Cell, E-Cell, JNNRIC, JNNCART are some of the initiatives/Platforms of CIE.

During the financial year 2019-20, JNNCE was granted with Rs. 2.87 Cr. to be received in annual instalments for five years. New Generation Innovation and Entrepreneurship Development Centre (NewGen IEDC) is a programme launched by National Science and Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology (DST), Government of India. NewGen IEDC aims to inculcate the spirit of innovation and entrepreneurship amongst the young S&T students, encourage and support start-up creation through guidance, mentorship, and support. Students will be encouraged to take up innovative projects with possibility of commercialization.

Since 2019-20, JNNCE NewGen IEDC is engaged in inviting innovative projects from students, alumni, and faculty of JNNCE. Each year funding to proposed projects are provided based on the approval of project selection team for the viability of the project for innovativeness and/or commercialization potential. The fund structure is comprised of Prototype Development Grant of Rs. 250,000/- per project and recurring expenditure of Rs. 10,00,000/- for honorarium for coordinators, Patent expenditure and for carrying out programs that inculcates creativity and awareness among students. Out of this grant Rs 200,000/- is meant for cost of raw material, prototype development cost, external vendor/consultant cost. Rs. 25,000/- is to be paid to the mentor for providing guidance to the project team and Rs 25,000/- per student group as stipend. The duration of the project would be one year. The project team may be formed by involving JNNCE students from different disciplines as well from different years of study or alumni of JNNCE. Each project group will be mentored by a faculty. The progress of the project is monitored by JNNCE NewGen IEDC advisory board. Under JNNCE NewGen IEDC so far fourteen patents have been filed among which four patents have been published. The commercialization of ideas is ongoing effort and so far, five ideas have been converted to commercial products.

File Description	Document
Appropriate web in the Institutional website	View Document
Any other relevant information	View Document

5. CONCLUSION

Additional Information :

Other salient features of the institute includes excellent infrastructure with spacious class rooms with modern teaching aids, state-of-the art laboratories and computers. There is a hostel for both boys and girls accommodating about 600 boys and 450 girls. Sports facilities abound with multi gym, Turf cricket pitch and a modern playground. The Turf cricket pitch and new pavilion is as per KSCA standards and hosted cricket matches like Ranji Trophy, South zone and other State level matches.

Rainwater Harvesting, Solar plant and Sewage Treatment Plant has been implemented in the campus. This eco-friendly project is well appreciated for its conservation of water, recycling of water and pollution control. Green champion award by TATA Power Solar for installing 400.075KW Solar plant.

The institution has good placement record, with companies like BEL, TCS, Evive Health, HP, Tech Mahindra, Wipro Technologies, etc v recruitment the students. All the students will undergo the soft skill training program conducted by placement cell. Further students are exposed to the emerging technologies by way of technical talks by Industry experts. Students undertake their projects in emerging technical field and are involved in research projects. Students also participate in social cause, cultural and sports activities.

Students are encouraged to participate in Technical and Management Fests, Student Seminars/Conferences and other co-curricular and extra-curricular activities held by different institutions and the University. JNNCE takes pride in noting that its students have been consistently winning laurels in all such inter-collegiate and inter-university contests and events. The institution conducts its own Technical Fest-“Techzone” every year, attracting student entries for paper presentation and other events from different states. “JANVEY”, the two-day annual Sports & Cultural Fest of the institute showcases students’ multi-faceted talents in different disciplines. Institute has student chapters of IEI, IETE, and IEEE provide additional enrichment for students’ overall development.

Students who have passed out of this institution have been making significant contributions in Industries, R&D organizations, Academic Institutions and Govt. Organizations in India and abroad and serving their alma-mater.

The institute has Alumni Forum, which meets regularly and involves itself in the development of the institution by undertaking various activities.

Concluding Remarks :

The management team of National Education Society (NES), comprising of highly respected persons from different profession and social service are committed to carry forward the enlightening vision and the illustrious legacy of its founders. NES was established with primary motto of giving emphasis on rural and women education. The Mission of NES is “To provide quality education at reasonable cost”. Jawaharlal Nehru New College of Engineering (JNNCE) has thus emerged as one of the institutions espoused to the cause of professional education, training and research. JNNCE is wedded to a conviction of building engineers and managers of tomorrow competent to attune to the changing business dynamics with rewarding performance. Top management assigns independent entities to monitor the academic leadership in the institute.

JNNCE has decentralized its activities for effective implementation of its action plans. It believes to act together within the framework of its individual and collective responsibilities, by involving all the faculty members at the department and Institution level. A Quality Policy has been formulated that emphasizes state of art technology support, best possible educational infrastructure, encourage R&D, consultancy and improve teaching learning process by introducing innovative pedagogical and student interaction mechanism. Functioning of the Institution is transparent through well-defined rules and regulations for governance.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p>Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)</p> <p>Answer before DVV Verification :</p> <p>Answer After DVV Verification :246</p> <p>Remark : As per clarification received from HEI, and multiple counting of the same courses should be considered as one during the last five years, thus DVV input is recommended.</p>																				
1.2.2	<p>Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</p> <p>1.2.2.1. Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>321</td> <td>81</td> <td>134</td> <td>57</td> <td>39</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>320</td> <td>81</td> <td>134</td> <td>57</td> <td>39</td> </tr> </tbody> </table> <p>Remark : As per clarification received from HEI, DVV input is recommended.</p>	2021-22	2020-21	2019-20	2018-19	2017-18	321	81	134	57	39	2021-22	2020-21	2019-20	2018-19	2017-18	320	81	134	57	39
2021-22	2020-21	2019-20	2018-19	2017-18																	
321	81	134	57	39																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
320	81	134	57	39																	
1.3.2	<p>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)</p> <p>1.3.2.1. Number of students undertaking project work/field work / internships</p> <p>Answer before DVV Verification : 2552</p> <p>Answer after DVV Verification: 2350</p> <p>Remark : As per clarification received from HEI, DVV input is recommended.</p>																				
2.4.1	<p>Percentage of full-time teachers against sanctioned posts during the last five years</p> <p>2.4.1.1. Number of sanctioned posts year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18															
2021-22	2020-21	2019-20	2018-19	2017-18																	

174	177	185	194	205
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Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
174	177	185	194	202

Remark : As per clarification received from HEI, DVV input is recommended.

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

3.1.1.1. Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
41.87	42.64	43.50	43.21	21.73

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
39.12	42.64	43.50	33.46	21.73

Remark : As per clarification received from HEI, DVV input is recommended.

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

3.2.2.1. Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
79	65	62	85	37

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
79	65	62	83	37

Remark : As per clarification received from HEI, DVV input is recommended.

3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

3.3.1.1. Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
201	106	82	106	78

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
127	78	62	71	58

Remark : As per clarification received from HEI, DVV input is recommended.

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
27	23	29	33	53

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
23	16	24	26	40

Remark : As per clarification received from HEI, DVV input is recommended.

3.4.3 Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.**3.4.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
17	29	23	43	57

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
46	23	42	45	12

Remark : As per clarification received from HEI, DVV input is recommended.

3.5.1 ***Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.***

Answer before DVV Verification :

Answer After DVV Verification :18

Remark : As per clarification received from HEI, DVV input is recommended.

4.1.2 ***Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years***

4.1.2.1. Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
437.96	100.42	535.95	465.19	255.2

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
433.09	95.49	520.54	436.30	228.23

Remark : As per clarification received from HEI, DVV input is recommended.

4.4.1 ***Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)***

4.4.1.1. Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
190.92	103.01	229.22	249.969	140.94

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
180.46	90.21	217.27	249.97	140.94

Remark : As per clarification received from HEI, DVV input is recommended.

5.1.2 ***Following capacity development and skills enhancement activities are organised for improving***

students' capability

1. *Soft skills*
2. *Language and communication skills*
3. *Life skills (Yoga, physical fitness, health and hygiene)*
4. *ICT/computing skills*

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : As per clarification received from HEI, DVV input is recommended.

5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

5.1.3.1. Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
724	347	95	137	166

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
3277	1741	532	691	652

Remark : As per clarification received from HEI, DVV input is recommended.

6.3.2 Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

6.3.2.1. Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
7	10	6	16	11

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
06	07	06	16	09

Remark : As per clarification received from HEI, and Multiple financial supports provided to teacher in a year to be considered once only, thus DVV input is recommended.

6.3.3 **Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years**

6.3.3.1. Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
88	122	185	66	55

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
140	125	51	65	50

6.3.3.2. Number of non-teaching staff year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
94	94	104	106	105

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
93	94	104	106	105

Remark : As per clarification received from HEI, DVV input is recommended.

2.Extended Profile Deviations

ID	Extended Questions																				
1.2	<p>Number of teaching staff / full time teachers year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>174</td> <td>177</td> <td>185</td> <td>194</td> <td>205</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>174</td> <td>177</td> <td>185</td> <td>194</td> <td>202</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	174	177	185	194	205	2021-22	2020-21	2019-20	2018-19	2017-18	174	177	185	194	202
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