



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIVAMOGGA
Name of the head of the Institution	P. Manjunatha
Designation	Principal (in-charge)
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08182276707
Mobile no.	9964378365
Registered Email	principal@jnncce.ac.in
Alternate Email	dean-acad@jnncce.ac.in
Address	Savalanga Road, Navule
City/Town	Shivamogga
State/UT	Karnataka
Pincode	577204

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Semi-urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. Jalesh Kumar
Phone no/Alternate Phone no.	08182276707
Mobile no.	9449423361
Registered Email	iqac@jnnce.ac.in
Alternate Email	jaleshkumar@jnnce.ac.in

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://jnnce.ac.in/jnndemo/ranking.htm 1
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://jnnce.ac.in/jnndemo/coe.html

5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.29	2018	26-Sep-2018	25-Sep-2023

6. Date of Establishment of IQAC	15-Mar-2017
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7. Internal Quality Assurance System		
Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
NBA preparation for MBA	01-Feb-2020	1

department	250	
NBA accreditation	01-Jun-2019 365	7
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. Chetan K R	Students Project Programme	Karnataka State Council for Science and Technology	2020 365	4000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

6

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

Quality initiatives in Teaching Learning Process Domain skill based placement training Upgrading domain skill set of students and improving employability - A model for implementation Karnataka Tech Entrepreneurship Summit to be organised by JNNCE (Theme : Building Startup Echo System and Entrepreneurship Spirit) Initiation, Monitoring, guidance and continuous follow up of NBA Process

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

Plan of Action	Achievements/Outcomes
Accreditation of all UG programs by NBA	<ul style="list-style-type: none"> IQAC was closely monitoring the NBA process. All 7 UG programs were accredited by NBA.
Academic and Administrative Audit - AAA: Action Plans	<ul style="list-style-type: none"> JNNCE AAAC formulated AAA process document. Institutional level Audit proforma is designed.
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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	18-Oct-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	12-Feb-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>JNNCE is proud to have its own Internal Software system called JNNCE Automation and Management System (JAMS). This software automates the work of academic, administration, research, NBA Readiness, Examination, Mentoring, Results, Biometric, Leave Management and many others. It's a role based system where faculty apart from their regular academic work of Teaching and Learning can execute their roles in form of Coordinators. Few sample roles include Test Coordinators, Project Coordinators, Time table Coordinators, Transport Coordinators and others. Academic Activity is planned inline with IQAC guidelines using this software. Students and parent get immediate access of Attendance and IA marks uploaded by faculty. Continuous monitoring of faculty carrying academic activity like Lesson Plan creation, execution, Attendance entry, IA Marks entry, Assignment Management, Lab</p>

Management, Planning beyond syllabus, Leave Approvals, Updation of their Academic profiles, Funded Project Data are possible. Further software also provisions analytics of the data loaded helping to plan for better decisions and academic strategies.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

Curriculum delivery and documentation is important in success of any institution. For the curriculum delivery and documentation institute implemented well planned mechanism as below:

- JNNCE is imparting education in Technology and Management since 40 years. JNNCE is running B.E, M.Tech, MCA and MBA programmes. JNNCE is affiliated to Visveswaraya Technological University, Belgaum. Since we are affiliated to VTU, Institution is follows the curriculum prescribed by the VTU. Institution puts sincere effort in developing mechanism to deliver the curriculum prescribed by the University.
- In the departmental level Coordinator in consultation with Head of the Department, Principal, and subjects to individual faculty members based on their functional expertise.
- In the institutional level, Class time table is prepared by the Time table committee and same time table is followed by the each department.
- Each faculty will maintain Lesson plans, course files and teachers dairy in their respective subjects and are reviewed on a continuous basis by the HOD, Academic dean and the Principal.
- In the beginning of the odd semesters, Institution prepares academic calendar and printed copies in the form of Handbook is distributes to all students and faculties. Academic calendar includes detailed information about the institutional academic activities, internal tests dates, schedule of extra and co-curricular activities etc.
- To monitor the performance of students, institution conducts three internal tests and faculty members will give the feedback to students.
- Regular departmental meetings (monthly) conducted to discuss the proper implementation, monitoring and the delivery university curriculum.
- The syllabus books, old question papers, Model question papers, notes, lecture PPTs, lab manuals and subject related videos for each subject are provided by the faculty to the students.
- Institution has plenty of courses resource materials and institution also facilitates course reference materials such as magazines, journals and books in the library.
- Institute updates library by adding new books, magazines and journal based on course, students and faculty requirements.
- Institute arranges short-term training programs of teaching and non-teaching staffs during vacation to ensure the effective delivery of course contents.
- At end of the each semester Student feedback taken to review the performance the faculty members, and based feedback given students corrective measures are implemented by the HoD and Principal.
- Institute faculties follow mix of traditional method of teaching and modern teaching methods in UG and PG classes.
- Mentoring, coaching classes and tutorial classes conducted for slow learners. Fast learners are motivated through counselling, project based learning and subject quizzes.
- In addition to regular subject classes, the college also organizes special lectures by inviting experts from various fields to share their knowledge and experiences with the students in their field for expertise.
- The Institute also organizes Personality Development Programs for overall development of the students, which is rooted as part of curriculum.

Personality Developments programs are conducted by the industry In covid time all classes are conducted in online mode. All the class videos are uploaded in youtube to help students.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
nil	0	Nil	0	0	0

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	nil	Nil
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nil	nil	Nil

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

	Certificate	Diploma Course
Number of Students	20	Nil

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
nil	Nil	Nil
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	UG (Computer Science & Engineering) - projects	146
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

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

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	BE(All branches)	822	709	709

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	709	219	156	29	185

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
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185	120	Nil	63	1	1
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring system exists in the institute to ensure overall development of the students, which includes personal, professional, career development. The system functions as under: • Faculty members are designated as mentors at their program level. • Each faculty member is assigned 15 -20 students to mentor. • The faculty mentor regularly interacts with the students assigned to him/her and guides them with respect to their academic issues. • The mentor reviews the students' academic performance, after each Internal Assessment (IA) test and also at the end of the semester, and gives detailed feedback to concerned student. • Wherever necessary, the mentor, in consultation with the HoD and the concerned Course Instructor, arranges additional tutorial or remedial classes. • Similarly, special classes are arranged for 'slow learners' in courses as required. • Likewise, whenever needed, the mentor arranges remedial classes for higher semester students. As part of mentoring support exclusively for 1st year students: • an exhaustive orientation program is arranged to give them an idea about the course and to bridge the gap between 2 level and the engineering course they have joined • a three week Induction program is conducted as per VTU CBCS Regulations 2018, extensively covering topics like environmental awareness, sports, yoga physical fitness, art culture, ill effects of ragging, psychology, communication skills and so on • One week bridge course is arranged for 1st year MBA students by MBA department to ease students in courses like Accounting and Business Analytics, with the help of subject experts.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3100	185	1:17

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
6	6	Nil	2020	2

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Sathyanarayana S	Assistant Professor	Wipro Certified Faculty, WIPRO
2020	Sathyanarayana K B	Assistant Professor	Wipro Certified Faculty, WIPRO
2020	Mr. Prashant Ankalkoti	Assistant Professor	Microsoft Innovative Educator Master Trainer
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
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BE	CV	1	16/02/2020	15/03/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Continuous Internal Evaluation policy is framed on the process of internal semester question paper setting evaluation, Project, Technical Seminar and Internship evaluation based on the Visvesvaraya Technological University (VTU) guidelines and Outcome based Education System. Along with this evaluation rubrics for project work, internship and seminar was designed and approved by IQAC.

A. Process for internal semester question paper setting evaluation:

1. Test schedule is announced in the institute calendar of events, to be held in 5th, 10th and 15th week respectively using College Inhouse software (JAMS).
2. Question paper pattern is followed based on guidelines formed by IQAC for BE, MBA, MTech and MCA.
3. Same CO numbers to be given for choice questions.
4. Questions are set in line with Revised Bloom's Taxonomy levels.
5. Question paper scrutiny committee is formed to scrutinize the question papers along with the scheme.
5. Scheme and solution are made available to the students and it is also discussed in the class.

B. Process for monitoring and evaluation of Project Work

1. Form the Project Evaluation Committee (PEC) comprising of: senior faculty, HOD and Project Coordinators.
2. Students are asked to form batches using college Inhouse software system (JAMS). Their area of interest is also captured.
3. Faculty are asked to their area of interest in guiding students using JAMS software.
4. Guide Allocation is done by PEC based on matching the area of interest between faculty and student batches using JAMS software.
5. Project Coordinators are provided options in JAMS software to create activities for the project, set deadline for each activity and schedule the activity if such activity requires interaction with Guide and Project Coordinators.
6. As mandated by VTU, project is carried out in 2 Phases. Phase-1 in 7th Sem and Phase-2 in 8th Sem,
7. The project coordinators carry out various activities like Synopsis Review, Presentation till design of project, Report till design of project during Phase-1.
8. The project coordinators carry out various activities like Tool Learning, Implementation, Testing, Presentation of entire project, Report of entire project during Phase-2.
9. Project coordinators form Evaluation rubrics, form COs for Phase-1, map COs to PO and PSOs separately for Phase-1 and Phase-2 using JAMS software. The rubrics are also informed well in advance to students using JAMS software.
10. Two types of rubrics: Individual and Group Rubrics are formed. Group rubrics assign common marks for all team members of batch and individual rubrics is for each student in the batch.
11. Based on performance in various activities, guide and coordinator (discussing with PEC) fill marks separately for each rubric. Final student marks is weighted average of marks of coordinator and guide(80 Guide and 20 Coordinator)
12. External evaluation is also done by conducting project exhibition at end of academic year by inviting corporates/industrialists as judge. Based on their decision Best Projects of the year are decided. done, Coordinators and Guide separately fill marks for rubrics for each C.

C. Assessment process for Technical Seminar.

1. Seminar Coordinators are formed by

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

Institution calendar of events is designed in line with the VTU calendar of events. Department calendar of events is prepared based on institution calendar of events. It consists of the activities planned for the semester which includes internal test dates, display of internal marks, Mentor Meetings, Parents Meet, conduction of events like organizing guest lectures, conferences etc.

1. Test schedule is announced in the institute calendar of events, to be held in 6th, 10th and 14th week respectively.
2. Project Execution Timeline is

designed and followed as below: In 7th Semester, • 10th- 12th week : Students are invited to prepare their batch and get it registered with the project coordinator of the department. • 14th- 16th week: Guide will be allotted to respective batches, • Semester end: Students are instructed to submit the synopsis of their project with the concern of their respective guide, Project Synopsis Presentation, reviewed by a Project Evaluation Committee consisting of Project coordinator, Head of the department and concerned guide. In 8th Semester • Seventh week: Students are instructed to give a PowerPoint presentation for the project. (Evaluation phase I by a team of faculty) • Fourteenth week: Students are instructed to give a PowerPoint presentation for the project (Evaluation phase II by a team of faculty) • Sixteenth week: Students are instructed to submit complete project report with university compliance and give a PowerPoint presentation for the project. (Evaluation phase - III, by a team of faculty), The marks for the project work is announced and processed according to the university regulations.

2.6 – Student Performance and Learning Outcomes

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

<https://jnncce.ac.in/jnndemo/outcome.html>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
CV	BE	Civil	138	135	97.83
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2.7 – Student Satisfaction Survey

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

<http://jams-jnncce.in/jamsf/Feedback/SSS.html>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1095	VGST	30	10
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
"VIRTUAL LAB CONDUCTION FOR CIVIL ENGINEERING.	Department of Civil Engineering	21/05/2020
GEOSYNTHETICS FOR SUSTAINABLE	Department of Civil Engineering	12/08/2020

INFRASTRUCTURE DEVELOPMENT		
SYNCRO AND SIDRA SOFTWARE	Department of Civil Engineering	23/11/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Innovative Educator Master Trainer	Mr. Prashant Ankalkoti	Microsoft	07/07/2020	Microsoft Innovative Educator Master Trainer
Certified Game Changer	Mr. Prashant Ankalkoti	Quizizz.com	22/10/2020	Certified Expert on Quizizz
Zero Investment Innovations for Education Initiatives	Mr. Prashant Ankalkoti	Sri Aurobindo Society ZIIIEI	02/03/2020	Teacher Innovation Award
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
0	nil	nil	0	nil	Nil
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

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

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	MBA	2	Nil
View File			

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

Department	Number of Publication
Mechanical Engineering	3

Information Science Engineering	9
Department of Civil Engineering	3
Department of Computer Science Engineering	1
Master of Computer Applications	10
Basic Sciences	8
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Thermal stability and flammability characteristics of phenolic syntactic foam core sandwich composites	Amith Kumar S.J.	Journal of sandwich structures and materials.	2019	24	J N N College of Engineering, Shivamogga	24
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
. Low-velocity impact damage and energy absorption characteristics of stiffened syntactic foam core sandwich composites	Amith Kumar S.J.	Construction and Building Materials.	2020	5	24	J N N College of Engineering, Shivamogga
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	27	285	4	3
Presented	62	43	Nil	Nil

papers				
Resource persons	Nil	15	6	2
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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Helping and support activities in flood affected areas of Shivamogga on 9th and 10th August 2019.	NSS	5	50
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
nil	nil	nil	Nil
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swacch Bharath	NSS	Campus Clean-up activity. 19/10/2019	1	70
Swacch Bharath	NSS	Swacch Bharath- Campus Clean-up activity.09/11/2019	1	50
Social Responsibility	NSS	Feeding of stray animals during COVID -19 lockdown.17 /04/2020	1	10
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
nil	nil	nil	0
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Internship for Final Year Students	Ekathva Innovations PVT. LTD. shivamogga	10/06/2019	10/07/2019	Students of Final Year
Internship	Internship for Final Year Students	Ekathva Innovations PVT. LTD. shivamogga	23/12/2019	25/01/2020	Students of Final Year
Industry Driven Training	Industry driven AI Program for Students of JNNCE	Qualitas Technologies, Bengaluru Raghava Kashyap, CEO	01/02/2020	31/12/2020	Registered Students
ST Lab Using AI and ML	ODC UT Solutions, Pune	ODC UT Solutions, Pune Brijesh Kumar Singh, Managing Director	01/02/2019	31/12/2020	Registered Students
Internships	Internship for Final Year Students	Ekathva Innovations PVT. LTD. shivamogga	22/07/2020	22/10/2020	Students of Final Year
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
SV Engineering Services	07/11/2019	Consultancy	2
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
34950000	37709200

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added

Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Newly Added
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
E LIB I Next	Fully	Web version	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	113487	32160974	3510	1810724	116997	33971698
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
S. Sathyanarayana	Computer Netork and Security	Google meet	01/10/2020
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	1065	23	1	1	0	1	11	200	0
Added	240	0	0	0	0	0	0	0	0
Total	1305	23	1	1	0	1	11	200	0

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

200 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and
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	recording facility
nil	Nil

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
17910000	10517486	15475000	21134350

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

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

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	BCM - epass, Department of Backward Classes Welfare, Govt. of Karnataka	1365	28873520
Financial Support from Other Sources			
a) National	Ministry of Minority Affairs, Govt. of India	195	9750000
b) International	nil	Nil	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Soft skill development	01/01/2019	648	Condura education and training services pvt. ltd
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
Nil	nil	Nil	Nil	Nil	Nil
No file uploaded.					

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

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

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed

TCS (Digital Hiring)	99	2	Goldman Sachs	128	Nil
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	9	UG	Civil	JNNCE, Shivamogga.	Transportation Engg. Management
View File					

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

Items	Number of students selected/ qualifying
NET	1
GATE	2
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
VTU Central Karnataka zone Cricket selection trails for Men conducted from 3rd 4th October 2019.	University	60
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Participated in All Indian Inter University Power lifting Women Championship 2019-20	National	1	Nil	2854	Soundarya M K
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student participation in various academic and administrative committees of the

Institute is nurtured and encouraged to ensure overall development. Internal Quality Assurance Cell (IQAC) formed on the guidelines of NAAC comprises the stakeholders with bonafide student representation. The representation is made by two undergraduate students. The professional bodies like Compute Society of India (CSI), Institution of Engineers (India) - JNNCE Chapter, The Institution of Electronics and Telecommunication Engineers (IETE), IEEE JNNCE Student Chapter are governed by the bodies which are represented by students. Each program in the Institute is having a Technical Association responsible for conducting the technical activities for the benefit of students. The activities of these associations are planned and executed by student representatives from each class under the supervision of a faculty advisor. The Placement Advisory board in assisting students to build their careers is also represented by two students along with renowned personalities from Academia and Industry. The Cultural Team is responsible for organizing and participating in the cultural activities, in which the activities are planned and executed by the members of Cultural Team constituted with the representation of staff and students of the Institute. The selection of the student representatives is mainly based on the performance and contribution in the different art forms. The Sports Committee which is responsible for conduction of various sports activities and encourages the students to take part in sports competitions is also constituted with student fraternity. The different sports team captains are by default will be the members of Sports Committee.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

JNNCE Alumni Association was registered during the year 2018-19 with the Registration No. DRSH/SOR/74/201819. The objective of the association is to build strong alumni network and connect the students of JNNCE with alumni to get academic and placement related guidance. It also aims at building common interest groups and provide a forum of discussion to facilitate the growth of the alumni and the institute.

5.4.2 – No. of enrolled Alumni:

1121

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

120000

5.4.4 – Meetings/activities organized by Alumni Association :

1. EC meeting held on 01.01.2020 2. EC meeting held on 08.01.2020 3. 2nd AGM held on 25th Jan 2020 4. Nellore Alumni Meet held on 29th Feb 2020 5. EC meeting held on 28.11.2020 6. 3rd AGM held on 30th Dec 2020

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

Practice 1: • JNNCE maintains an organization structure where the NES Management is the supreme authority with the Principal of the Institute as the highest authority. Dean academics and Dean infrastructure are responsible for academic and infrastructure related activities respectively. • Key action plans of the institute are discussed and finalized in consultation with the Deans, Head of the Departments, in HoDs' Meetings held periodically • Minutes of the Meetings are drawn and circulated among the HoDs for actions proposed. • HoDs,

in turn, share the decisions taken at the HoDs Meetings, as above, among their respective staff members in the Department Meetings held periodically and ensure the implementation of the same, individually and/or through departmental subcommittees comprising of teaching and nonteaching staff members. • HoDs are sanctioned departmental budgets for various academic and administrative functions based on HoDs' estimates of expenditure for the ensuing academic year. • HoD's have operational autonomy at their program level to conduct these activities, as per academic calendar of the institute, utilizing the budgets sanctioned and reporting the same for accounting and audit. • The wardens take administrative decisions as regards hostels in consultation with the dean infrastructure, Principal and Hostel Advisory Committee, and ratified by the management. Practice 2: • Various committees with faculty / staff as members are constituted to undertake different administrative decisions and actions: (i) Internal Quality Assurance Cell (IQAC) (ii) Academic Monitoring Committee (AMC) (iii) AntiSexual Harassment Cell (AISHC) (iv) Grievance Redressal Cell (v) NAAC committee (vi) NBA committee (vii) Student Counseling Cell (viii) Mentoring committee (ix) Sports committee (x) Cultural committee (xi) NSS (xii) Research committee In covid pandemic, Covid task force is constituted for the purpose of safety measures in the campus for smooth conduction of academic activities. Administrative, academic, IQAC works together with these committees for progress of the institute.

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

Partial

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	Admission process is totally transparent as per AICTE/ VTU/ State Govt. policies. The management quota seats are filled on merit basis for those students who possess a rank of any one entrance exam approved by Govt. All the admissions made since inception of the college are approved by competent authorities without any legal hazards. Following are the steps taken by institute in case of Admission of the Students: • Admission notification and the details of the courses available in the institute is published in all leading regional daily newspapers in English and Kannada language. • The well designed prospectus which gives the information on the courses and the facilities available in the institute. The details provided in the prospectus and admission details are given on the Website http://www.jnnce.ac.in . The website is updated regularly • Parents Students Interaction programme on Admissions: Every year an interaction programme for the aspiring students and parents is organized to share about admission process of institute through

CET, COMEDK, PG CET, KMAT and management quota. • Participating in Education Fair. • Participating in COMEDK Admission Process. • Distribute handouts containing details of the institution to the candidates at various CET/ COMEDK/PGCET/KMAT examination centres.

Industry Interaction / Collaboration

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

Human Resource Management

The institute is following AICTE / VTU norms and Karnataka State Civil Service Rules (KCSR) for its administrative purpose. • The NES management constituted a committee during 2017-18 to draft the human resources manual for the institution • The manual has the policy and procedure for recruitment, duties and responsibilities of staff, salary and incentives, benefits, leave policy, promotional procedures and service maintenance of employees and is effective from 1st June 2018. • Annual Appraisal Review - The Head of the Institution along with the Head of the department conducts a annual review of the performance of the faculty • Student Feedback - Has an online Feedback mechanism • Faculty are encouraged enhance their research acumen by providing facilities to pursue higher studies through QIP and by providing funds for the most appropriate research proposal through JNNRIC external funding agencies

Library, ICT and Physical Infrastructure / Instrumentation

Library The institute library, housed in an exclusive and spacious block, has a collection of 1,19,418 books relating to all branches of Engineering and Management, digital library, subscribes

to 68 National International Journals with ejournals through VTU Consortium and DELNET. The Library has been computerized with eLib iNext Web based software. Also, institute is identified as NPTL local chapter. As library is fully automated (OPAC) for searching of books journals separate online public access catalogue is provided near circulation section. Separate library website is hosted which contains detail information about library collection and services. The same information is in institution website. ICT Institute has provided faculty cabin with internet facility for Faculty members are for preparation of teaching/learning materials in their respective departments. In the library, Institute provides online resources which can be used by the faculty members and students. Seminar halls and Auditoriums are provided with LCD projectors, computer systems and internet facility. More than 80 per cent of the classrooms and laboratories are equipped with ICT Facility LCD projectors. The faculties make use of Open office, and Microsoft office to prepare teaching materials. • Developing and maintaining state of the art infrastructure in the campus - for administration, teaching learning, research, consultancy, campus living, and welfare of all the constituents • Developing transparent and responsible system for identifying and indenting departmental needs, for nonrecurring capital expenditure budgeting, purchase/acquisition, maintenance and disposal of capital assets • Ensuring optimum utilization of classrooms, laboratories, workshops, equipments, vehicles, open spaces, playgrounds, parking space etc and checking wasteful expenditure, idle capacities, duplication, stockfiling etc • Developing and maintaining proper and scaping, effluent treatment, safety security, vigilance surveillance on the campus

Research and Development

Our Faculty and students are pursuing research in emerging areas to solve the societal problems. The faculty have presented and published more than 400 papers in national and international seminars, conferences and journals in the last five years. The institution

has organized International National Conference/Seminars, FDPs, Workshops on different academic and intellectual themes. To motivate innovation based research among faculty and students, JNNCE Research and Innovation Centre in JNNCE (JNNRIC) started in 2017-18 has been functioning. So far 29 candidates obtained Ph.D. degrees from JNNCE under Research Centre of VTU. To encourage research and publication, the institute had launched its own online biannual research journal, titled "JNNCE Journal of Engineering Management" (JJEM) in October 2017. Six issues, containing research papers from scholars, both from India and abroad, have been already released and the Seventh issue is now under process. JNNCE has applied for starting NewGen Innovation and Entrepreneurship Development Center (NewGen IEDC) under the aegis of NSTEDB, DST, Govt. of India at JNNCE with grant of Rs. 2.87 Crore over a period of 5 years.

Examination and Evaluation

Three tests are conducted as per the academic calendar. Tests are evaluated with the scheme of valuation and test performance made known to students. Average of the three tests is taken as the final internal assessment marks. Seminars/ assignments and Viva Voce are the part of internal assessment for CBCS scheme students. Tests are conducted similar to the university examination. In addition to room invigilators, a flying squad comprising of senior faculty members monitors the conduct of each test. The seating arrangement, question paper pattern etc. are as per university norms. The overall development of students with weightage for behavioral aspects, independent learning, and proficiency in communication are also assessed when allotting marks in Seminar and Project Work. The assessment of the seminar, internship and project work is done using RUBRICS.

Teaching and Learning

The academic calendar based on the VTU academic activities is prepared every semester which gives information about the conduction of test etc. Based upon this each department prepares the departmental calendar as per the schedule tests are conducted by the concerned faculty members which is

monitored by the academic committee.
 The subject allotment meeting is separately held in every department at the end of previous semester so as to enable the faculty members to know the subject they are supposed to handle and prepare for the lectures in advance. Three tests are conducted as per the academic calendar. Tests are evaluated with scheme of valuation and test performance made known to the students.

Curriculum Development

Curriculum Development is important in success of any institution. Since we are affiliated to VTU, Institution follows the curriculum prescribed by the VTU. About 100 faculties of the institute are having experience of more than 10 year of experience in teaching. Senior faculty members involve in curriculum revision efforts VTU. Many of our faculty served as members of the Board of Studies and Board of Examiners of VTU. Member of the different academic bodies collect curriculum feedback from the students, alumni, faculties and industry experts and consolidated suggestions are communicated to the BOS of the VTU.

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

E-governance area	Details
Administration	JAMS helps in a hassle free management of Administration activities. Event conduction, feedback collection, Student Mentoring, Updation of data as required by various organizations, Employee feedbacks, Employee promotions are all automated. Employee working hours is administered with integration of JAMS with Biometric module. Lab/Class Room Infrastructure availability and demand is also managed through the software. Leave Management is automatically and accurately tracked with the JAMS software.
Finance and Accounts	For the purpose of the finance and accounts institute is using customized tally package. Overall finance and accounting activities are carried out using tally software. External and internal auditing of the accounts carried through the system.
Student Admission and Support	For the purpose of the students admission and support Institute is using the customized tally package. During the admission students data will

entered in the system. This software package is aligned with office automation software. JAMS also helps student to check for their Attendance and IA marks. Students can involve in Project, Technical Seminar and Internship activity online using JAMS software. This is particularly useful in this event of COVID pandemics. Students can also check their results, apply for Study Certificate, Bank loan format and others using JAMS.

Examination

JAMS helps in an efficient and quick management of Examination module. It comprises of loading exam schedules, room availability data and Student appearing list. Once the data is loaded, automatically Student Seating Arrangement is generated. Subsequently, Faculty load can be uploaded. Faculty Duty Allotment happens automatically. Reports like B-Forms, Notice Board Copy, Question Paper Indent are generated. In order to avoid students crowding for finding their seat (particularly in lieu of COVID Pandemics), students can check their allotted room, bench 2 hrs before any exam in JAMS software. At the end, automatic billing report is also generated. Automatic notifications to faculty regarding Exam duty are sent.

Planning and Development

JNNCE is proud to have its own Internal Software system called JNNCE Automation and Management System (JAMS). This software automates the work of academic, administration, research, NBA Readiness, Examination, Mentoring, Results, Biometric, Leave Management and many others. It's a role based system where faculty apart from their regular academic work of Teaching and Learning can execute their roles in form of Coordinators. Few sample roles include Test Coordinators, Project Coordinators, Time table Coordinators, Transport Coordinators and others. Academic Activity is planned inline with IQAC guidelines using this software. Students and parent get immediate access of Attendance and IA marks uploaded by faculty. Continuous monitoring of faculty carrying academic activity like Lesson Plan creation, execution, Attendance entry, IA Marks entry, Assignment Management, Lab Management, Planning beyond syllabus,

Leave Approvals, Updation of their Academic profiles, Funded Project Data are possible. Further software also provisions analytics of the data loaded helping to plan for better decisions and academic strategies.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. Nirmala Shivanad	Nil	IEEE	6000
2019	Mr. Vedananda D E	Nil	IEEE	6000
2020	Dr. K M Poornima	Nil	IEEE	6000
2020	Mr. Vedananda D E	Nil	IEEE	6000
2020	Dr. R. Sanjeev Kunte	Nil	IEEE	6000
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Research avenues in Genomics	nil	23/11/2020	28/11/2020	80	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
International Conference on "Banking, Financial Services and Insurance"	13	17/01/2020	18/01/2020	2
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	6	Nil	1

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>• JNNCE is extending Gratuity of Rs.20,00,000/ (maximum amount) to all its employees as per Govt of India notification. Refer JNNCE Human Resource Manual for more details. • Under the EPF scheme, 12 of an employees monthly salary dearness allowance is deducted towards EPF. The employer also contributes 12 which is split into 8.67 (towards Employees Pension Scheme or EPS) and 3.3 which goes towards EPF. • ESI Medical Benefits. Employees State Insurance or ESI is a comprehensive social security program for workers in the event of medical contingencies, such as sickness, maternity, death or disablement due to employment injury and occupational disease. • JNNCE is extending ESI facility for all the employees earning salary less than Rs. 21,000/ per month. • All JNNCE Employees are covered under Group Personal Accident Insurance with Sum Assured of Rs.600000/, Accidental Hospitalization expenses of (Minimum 24 hrs In hospitalization) up to Rs 100,000/ and Rs 20,000 / for OPD Treatment or actual claims whichever is lower. • Lady employees can avail 180 days of maternity leave with full salary and the</p>	<p>• JNNCE is extending Gratuity of Rs.20,00,000/ (maximum amount) to all its employees as per Govt of India notification. Refer JNNCE Human Resource Manual for more details. • Under the EPF scheme, 12 of an employees monthly salary dearness allowance is deducted towards EPF. The employer also contributes 12 which is split into 8.67 (towards Employees Pension Scheme or EPS) and 3.3 which goes towards EPF. • ESI Medical Benefits. Employees State Insurance or ESI is a comprehensive social security program for workers in the event of medical contingencies, such as sickness, maternity, death or disablement due to employment injury and occupational disease. • JNNCE is extending ESI facility for all the employees earning salary less than Rs. 21,000/ per month. • All JNNCE Employees are covered under Group Personal Accident Insurance with Sum Assured of Rs.600000/, Accidental Hospitalization expenses of (Minimum 24 hrs In hospitalization) up to Rs 100,000/ and Rs 20,000 / for OPD Treatment or actual claims whichever is lower. • Lady employees can avail 180 days of maternity leave with full salary and the</p>	<p>• Student and One earning parent of student are covered under GROUP PERSONAL ACCIDENT POLICY from Tata AIG General Insurance Company Limited in 201819 • Mentoring • Students Clubs • The Management - National Education Society is encouraging meritorious students by instituting Cash Awards for excelling in the University examinations. These awards are based on the aggregate score in the academic year as follows. • Cash Award of Rs. 25,000/ for securing SGPA of 9.5 and above • Cash Award of Rs. 5,000/ for securing SGPA of 9.0 to 9.5 • Cash Award of Rs. 1000/ for securing SGPA of 8.5 to 8.99</p>

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

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

6.4 – Financial Management and Resource Mobilization

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

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

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

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

0

6.5 – Internal Quality Assurance System

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

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

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

Feedback in formulation and finalization of Institution vision and mission and quality policy
 Feedback in formulation and finalization of department vision and mission and quality policy
 Feedback on Academic, institution facility which help in further improvement. Parents are given demo of JAMS software and given direct access to their ward Attendance and IA scores to track ward performance continuously. Further daily SMS is sent to parent, in case student gets absent for specific class. Parents are kept informed about various events of college through JAMS software, website and SMS Notifications.

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

One week skill development program from 08/07/2019 to 12/07/2019 for technical and supporting staff. Three days skill development program from 24/07/2019 to 26/07/2019 for transportation and hostel staff. Two days training program from 15/07/2020 to 16/07/2020 on Networking, Internet issues and its solutions in JNNCE Campus for technical staff

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

All 7 UG programs (Civil, Mechanical, ECE, CSE, EEE, ISE, TCE branches) Accredited by NBA for 3 years (from 1.7.2019 to 30.06.2022) One PG department (MBA) applied for NBA accreditation Outcome base education System implemented and practiced. In house software system is designed and implemented for overall academic and administrative purpose

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	3-day Regional workshop on "Research Based Pedagogical Tools (RBPTs)	03/06/2019	03/06/2019	05/06/2019	45

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Art and Science of wikipedia	16/11/2019	17/11/2019	25	15

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

Percentage of power requirement of the University met by the renewable energy sources

District bio fuel information and demonstration center, JNNCE, Shimoga has been established in June 2011 by Karnataka State Biofuel Development board, Govt. of Karnataka, Bangalore. This information centre has been conceptualized as a showcase to study, promote demonstrate all aspects of the bio-fuel business namely, i) providing information on Bio Fuels. ii) Identification of various sources of oil iii) Agronomic practices for these sources. iv) Post-harvest technologies like de-cortication, oil expelling etc. v) Treatment uses of oils. VI) Trans-esterification methods efficiencies. vii) Exploration of various business models w.r.t. Bio-fuel sector ix) RD and extension services X) to purchase oil seeds from Shimoga region and encourage the farmers to take up bio fuel activities. Since 10 years, our center is actively engaged in fulfilling all objectives listed above by providing information to farmers, entrepreneurs, research students, end users and general public. Our center has made a name in the entire Shimoga region and has conducted more than 150 awareness and training programmes so far. We have established links with various leading NGO groups, SHG's and other eco communities. Many research and development activities are being carried out at our center. School and college students and teaches visit our center regularly. We have collected around 35 tons of bio oil seeds from farmers. We conduct environmental awareness programmes and participate in all the major governmental and other institutional exhibitions. Other than the awareness activities we have created research facilities cater to B.E, M.tech and M.Sc. Students and encourage them to take up research projects on various aspects of Biofuel and given training on soap production for women society and other Biofuel information and demo centers, A brief report of all the activities carried out in the year 2015-16 has been given in the ensuing pages. During this period we also established 50 seed collection centre in village with the support of members of Shimoga milk union society. And also established 30 seed collection centre in provision at every ward along Shimoga city. From 2011 to till center has collected around 90 tons of oil seeds and also around 4750 litres of fried cooking oil is collected from various hotels in Shivamogga district and produced around an average of 1500 litres per month of Biodiesel. Center Produced more than 7000 numbers of soap, 450 litres of Floor Cleaner and 370 litres of liquid soap. A Solar PV system producing 400 KW of electricity is being installed in the JNNCE campus and may set to commence the operation by the end of this year 2019. Through this solar plant 80 of produced energy will be utilized by college campus and 20 will be exported to the MESCOM grid fetching revenue. The annual requirement of energy by the college campus is around 5, 81,510 units. Of the produced energy 5,60,000 units will be utilized for the campus and 112,000

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
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Ramp/Rails	Yes	1
Physical facilities	Yes	1
Provision for lift	No	Nil
Braille Software/facilities	No	Nil
Rest Rooms	No	Nil
Scribes for examination	No	Nil
Special skill development for differently abled students	No	Nil
Any other similar facility	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	4	3	04/01/2019	Nil	Biofuel Exhibition	To promote biofuel activities at village level.	800
2020	1	10	14/07/2020	Nil	Planting of Saplings at Kuvempu Nagara Area, Opp. to JNNCE.	Plantation activity at newly developed area.	25
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
COLLEGE HAND BOOK published by the J.N.N. College of Engineering, Shivamogga Published every academic year	01/08/2019	College Hand Book is an informative tool for the students as well as the parents. The information covered by the book involve complete details of all the teaching as well as nonteaching faculty of all the

Departments, Department facilities, Publications, Placement details, Bus facilities, Hostel facilities, Bank facilities, Medical Clinic facilities and Academic calendar to be followed/

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction Programme- Phase I organized for I Se.B.E.Students conducted by the Institute Induction Programme Cell, JNNCE	11/08/2019	23/08/2019	599
Induction Programme- Phase II organized for I Se.B.E.Students conducted by the Institute Induction Programme Cell, JNNCE	10/02/2020	20/02/2020	599
Induction Programme- Phase I organized for I Se.B.E.Students conducted by the Institute Induction Programme Cell, JNNCE	14/12/2020	19/12/2020	400
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Use of Lights and Fan : Frugal use of lights and fans is facilitated by the highly ecofriendly structure of our building. Institute has energy conservation road map to move towards ecofriendly lighting and fans like LED lights, 3/5 start rated AC and Fans. This will help to reduce the energy consumption and lower emission of heat, reducing cooling requirements. 2. Roof Rain Water Harvesting : The Institution has the facility of 10 million liter capacity rain water collection, which collected from all the buildings in the campus. In addition to this, surface water collection (rain) in another pond. 3. BioDiesel Production : BioDiesel is being produced by District Biofuel Research, Information, and Demonstration Center, JNNCE, Shivamogga from the nonedible oil seeds and fried cooking oil. Around 1500 litres of BioDiesel produced during every month can be blended with fossil fuel in diesel vehicles. 4. Sewage Treatment Plant : Sewage Treatment Plant (STP) of capacity 200 KLD has been constructed and commissioned within the JNNCE campus. The sewage from Hostels, College Mess, College Canteen, Office, as well as all utility buildings of College is being treated and the treated effluent is utilized for flourishing greenery within the campus. 5. Solid Waste Management System : Solid Waste

Management System is installed and commissioned since 12th July 2017 for the treatment of organic waste which is generated in the college campus area. The organic wastes such as food wastes/vegetable wastes from Hostels and Canteen, Garden wastes of periodical cutting of lawn grass and fallen leaves as well as flowers from trees/vegetation are collected and treated to produce around 32 tons of compost per annum. The compost produced is commercially sold for Rs. 2.50 per Kg fetching revenue which is being utilized to maintain the system. 6. Phytoremediation System : 5 KLD Phytoremediation system has been installed and working since June 2019. The system is a low cost treatment unit employed for the purification of grey water where in some specific plants are involved to absorb, accumulate detoxify and remove contaminants from water through physical, chemical and biological process. Presently the system is in function as a pre treatment unit for existing Sewage Treatment Plant. 7. Solar PV System : Solar PV System producing 400 KW of Electricity is in the process of installation and will be in operation in next couple of months. 80 of energy produced will be utilized for the college campus and 20 energy will be exported to the MESCOM grid at the rate Rs. 4.00 per unit.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1: Title of the Practice: Digital transformation for automatic academic and administrative management of the college **Goal:** JNNCE is a big college that runs various courses like Engineering, MBA, MCA and MTech. More than 3000 students study here. More than 200 Employees work here. Hence ensuring good academic policies, transparent and effective administration of employees, their research profile, Mentoring of students and Analysis for Quality Improvement is the ultimate goal of the institution. Hence a sophisticated digital transformation tool is required for management. **Context:** College follows a decentralized model for administration and academic monitoring. For each of academic and administrative activities, there are Coordinators. The Coordinators are monitored and supervised by HODs. The HODs are responsible to report to Principal. College also has Dean Academic and Dean Infrastructure to supervise the academic and infrastructural requirements of the college. These processes are assisted by a user friendly tool called JAMS (JNNCE Automation and Management Services). **Practice:** JNNCE Automation Management System For College Automation, JNNCE uses an in-house package called JAMS (JNNCE Automation and Management System Portal) which 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) **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 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. **For Students:** Students have access to Lesson plan and execution. They can check their class time table. 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 also 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 absent status of the wards is sent as SMS to parent. Parents can also track Internal schedule, marks scored by their wards in Tests and Other Assesments. Examination details are also notified to parent. For Administration: Seamless and automatic administration process is done using JAMS. Higher authorities can track each academic process of faculty through JAMS. Biometric data is immediately available to all employees and can be monitored by higher authority. 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 analyzed using JAMS software. Evidence of Success: The tool is greatly successful particularly in the eve of 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. Best Practice 2 : 1. Title of the Practice: Evolving JNNCE as a "Green Campus" 2. Goal : The goal is to promote "Green campus concept" and become a role model for the educational institutions in particular and society in general. Green solutions: • Green building design. • Wind and solar energy for electricity, Demand side management, energy conservation, e administration, etc. • Bio diesel Bicycle for in campus transportation. • Bio gas from canteen, hostel waste, night soil, solar energy for cooking. • Rain water harvesting. • Promotion of local food. 3. The Context : The campus is located on a hard rock bed. It is difficult to achieve sustainable solutions for water problems. Percolation of rain water is very low and hence the underground water source does not yield sufficient water. In order to overcome the problem, a reservoir of 10 million liter capacity is created. 4. The Practice : Following green solutions are being promoted in the campus : • An initiative step to install solar power system of 400kW is being processed for the entire electrical power needs of the campus. • Bio diesel is being promoted as a blend for transportation. • Waste water treatment system supplies water for secondary usage thus reducing the fresh water requirement. • Solid waste management system handles the biodegradable waste and converts it in to good manure. • Promotional activities are being carried out for public and other institutions through, "Chirantana Green Technology Center" Established in our college. 5. Evidence of Success : • Self reliance on water management. • Reduction in fuel bill for transportation has been achieved. • Pollution free campus

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://jnnce.ac.in/jnndemo/cc.html>

7.3 – Institutional Distinctiveness

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

1. Centre for Innovation and Entrepreneurship (CIE) : • Center for Innovation

and Entrepreneurship (CIE) was started in the year 2018 to jointly run various Platforms/Programs at JNNCE with the Support of various Govt. Departments and agencies, Universities, Institutions, Industries, Startups, NES Management, JNNCE Faculty, Alumni and Students. • 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. Students carry out a real time project and submit it as a part of Internship activity. 2. NEWGEN IEDC : • National Science and Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology (DST), Government of India has started New Generation Innovation and Entrepreneurship Development Centre (NewGen IEDC) at JNNCE in 2018. • Students will be encouraged to take up innovative projects with possibility of commercialization. • Few amongst the "JobSeekers" would be converted to "JobGenerators" through the entrepreneurial route. Best 10 innovative projects in Batch1 (2019-20) have been selected recently in which each project team will get upto Rs. 2.5 Lakhs funding support to undergo their projects. 3. NEW AGE INCUBATION NETWORK 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. • Best 43 innovative projects in Batch1 (2015-16), Batch2 (2016-17), Batch3 (2017-18) and Batch4 (2019-20) have been funded to a maximum of Rs. 3.00 Lakhs per project. • NAIN Institution Level Innovation Council has been formed to regularly coordinate in NAIN Centre activities and projects. 4. JNNRIC : • JNNCE Research and Innovation Centre (JNNRIC) aims to nurture innovation and encourage entrepreneurial talents among students, faculty and people of the region. • JNNRIC might include research proposals addressing the Agricultural Technology, Renewable Energy and Energy Conservation System ICT for Socially relevant problems. • Rs.30 Lakh is funded by JNNCE, Shivamogga. 5. JNNCART : • A Centre for Appropriate and Agricultural Technologies was setup at JNNCE with the objective of serving farming community and other people of the Malnad region. • Students will be motivated to address problems faced by the farmers through innovative, cost effective farming implements as a part of their project work as prescribed in academic curriculum. Rs.8 Lakh is funded by JNNCE, Shivamogga. • CART aims to Encourage students and faculty for innovation, idea generation and product development, Provide seed fund to transform an idea into a product.

Provide the weblink of the institution

<https://jnnce.ac.in/jnndemo/>

8.Future Plans of Actions for Next Academic Year

Future plans of Action for next academic year can be summarized as follows: 1. Academic Atmosphere: • Engage the stake holders to explore strengths opportunities across the institute • Identifying the problems developing solutions, automating routine works to optimize the resources • Collaboration for joint research and exchange programs • Identifying the problems developing solutions, with office Automation. • Fostering a more transparent, responsive, motivated and agile administrative machinery • Ensuring meticulous financial planning, Implementation and auditing • Increased monitoring of revenues, expenditure, investments and human resources • Better and more frequent communication with all stakeholders. • Planning for better campus opportunities • Opening new courses in cutting edge areas like Artificial Intelligence and Machine Learning • Enhancing visibility through more reachingout, publicity promotion, press public relations, publications, extension social community participation • Faculty Development workshops on various topics in all depts. •

Identifying and developing Road map for topics based on current future need • Mentoring by internal and external academic experts, and industry experts. • Develop innovative, research groups working on emerging topics, faculty interest, and research infrastructure to increase externally funded projects • Taking up as reviewers and chairing sessions in Journal Conferences • Arranging Inhouse workshops Motivational programs • Making use of Free Online resources • Inviting Industry experts, Alumni during weekend for teaching. • Student mentoring strengthening • Existing MOUs to be used. •Implementation of new courses and centre of excellence. 2. Infrastructure Development • Developing and maintaining state of the art infrastructure in the campus - for administration, teaching learning, research, consultancy, campus living, and welfare of all the constituents • Developing transparent and responsible system for identifying and indenting departmental needs, for nonrecurring capital expenditure budgeting, purchase/acquisition, maintenance and disposal of capital assets • Ensuring optimum utilization of classrooms, laboratories, workshops, equipment's, and other facilities. • Developing and maintaining proper landscaping, effluent treatment, safety security, vigilance surveillance on the campus 3. Research Innovation • Identifying the areas of research based on strength of Faculty • Create an environment for high impact, cutting edge research • Identifying the current work to apply for patents • Establishing the collaboration with DRDO, ISRO, Public Sector Companies, MNCs • Applying for Contract Research work partnering with corporate • Develop infrastructure to enhance research capacity • Engage students on issues that shape our society