



Yearly Status Report - 2018-2019

Part A

Data of the Institution

| | | |
|---|--|---|
| 1. Name of the Institution | | NARSIMHA REDDY ENGINEERING COLLEGE |
| Name of the head of the Institution | Dr P.SEKHAR BABU | |
| Designation | Principal | |
| Does the Institution function from own campus | Yes | |
| Phone no/Alternate Phone no. | 09949092454 | |
| Mobile no. | 9949092454 | |
| Registered Email | principal@nrcmec.org | |
| Alternate Email | iqacordinator@nrcmec.org | |
| Address | NARSIMHA REDDY ENGINEERING COLLEGE Maisammaguda (V) , Dhulapally (P) , Near Kompally, Medchal (M) | |
| City/Town | Secunderabad | |
| State/UT | Telangana | |

| Pincode | 500100 | | | | |
|---|---|------|----------------------|-------------|-------------|
| 2. Institutional Status | | | | | |
| Affiliated / Constituent | Affiliated | | | | |
| Type of Institution | Co-education | | | | |
| Location | Rural | | | | |
| Financial Status | private | | | | |
| Name of the IQAC co-ordinator/Director | Dr V.P.Venkataramanmurthy | | | | |
| Phone no/Alternate Phone no. | 09949092454 | | | | |
| Mobile no. | 9949092454 | | | | |
| Registered Email | iqacordinator@nrcmec.org | | | | |
| Alternate Email | hodece@nrcmec.org | | | | |
| 3. Website Address | | | | | |
| Web-link of the AQAR: (Previous Academic Year) | http://www.nrcmec.org/pdf/IQAC-cell/AQAR%202017-2018.pdf | | | | |
| 4. Whether Academic Calendar prepared during the year | Yes | | | | |
| if yes,whether it is uploaded in the institutional website: Weblink : | http://www.nrcmec.org/AcademicCalender.html | | | | |
| 5. Accrediation Details | | | | | |
| | | | | Validity | |
| Cycle | Grade | CGPA | Year of Accrediation | Period From | Period To |
| 1 | A | 3.04 | 2015 | 01-May-2015 | 30-Apr-2020 |

6. Date of Establishment of IQAC

17-Aug-2015

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 |
|--|------------------|---------------------------------------|
| Cloud computing with AWS-Seminar | 26-Jul-2018 1 | 150 |
| Internet of things (IOT)-Workshop | 17-Aug-2018 2 | 150 |
| Android based Robotics-Workshop | 30-Jul-2018 2 | 70 |
| Machine Learning with Python-Seminar | 30-Mar-2019 1 | 90 |
| VLSI Digital Signal Processing-Workshop | 28-Jan-2019 3 | 22 |
| Remote sensing & GIS-FDP | 02-Jul-2018 5 | 100 |
| Machine Designing-Workshop | 20-Aug-2018 2 | 90 |
| Scope of Higher Study In Foreign Countries-Seminar | 21-Aug-2018 1 | 50 |
| Block chain technology-Seminar | 07-Mar-2019 1 | 150 |

[View File](#)**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 |
|--------------------------------|--------|----------------|-----------------------------|--------|
| NIL | NIL | NIL | 2019 0 | 0 |

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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 : | 2 |
| The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website | Yes |
| Upload the minutes of meeting and action taken report | View File |
| 11. Whether IQAC received funding from any of the funding agency to support its activities during the year? | No |
| 12. Significant contributions made by IQAC during the current year(maximum five bullets) | |
| 1.Encouraged Faculty Members to take up Research Projects, Consultancy and Extension activities number of Patents. 2.Supported to conduct academic audits. 3.Encouraged ELearning by creating awareness among students for registering NPTEL/Swayam Courses. 4.Supported in accreditation of UG programmes by NBA. 5.Conducting Project Oriented training to the students for improving success rate in Campus Interviews. | |
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| 13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year | |
| Plan of Action | Achivements/Outcomes |
| Curricular Aspects | To introduce more number of Elective subjects To conduct value added courses, in plant training, industrial visit To introduce guest lecture, Novel student projects To teach content beyond the syllabus, curriculum feedback Student Satisfaction Survey. |
| Teaching, Learning and Evaluation | To enhance the practical exposure of faculty members through industrial training / workshops / FDPs. Motivating the faculty members to pursue Ph D on part-time / full time basis with monetary benefits.- To enhance the teaching skills of the faculty members through ICT training programmes and work shop on new teaching methods -To improve student performance. |

| | |
|---|--|
| Research, Innovations and Extension | To publish more research papers in the SCI and Scopus Index journals. - To submit more proposals to various funding agencies. - To enhance consultancy and testing services offered by the Institute. |
| Infrastructure and Learning Resources | To purchase more standard text books in all the disciplines. -To enhance the server facilities for more data storage and improve MIS and report generation. |
| Student Support and Progression | To increase the number of students qualifying in GATE / GRE / IELTS / GMAT / CAT. - To increase the industry-oriented students project. |
| Governance, Leadership and Management | To provide mentoring support to the faculty members. To motivate the faculty members to pursue higher studies and arranging skill up gradation programmes to non-teaching staff members. To inculcate ethical responsibilities among the students through in-house programmes and club-activities. To facilitate IPR creation to the students, executing novel projects during annual inter-collegiate symposium |
| Institutional Values and Best Practices | To empower the students to organize departmental events To maintain the gender balance in the faculty and non-teaching staff members. |

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| | |
|---|---------------------|
| 14. Whether AQAR was placed before statutory body ? | Yes |
| Name of Statutory Body | Meeting Date |
| Management | 17-May-2019 |
| 15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ? | Yes |
| Date of Visit | 18-Oct-2019 |
| 16. Whether institutional data submitted to AISHE: | Yes |
| Year of Submission | 2020 |
| Date of Submission | 30-Jun-2020 |

| | |
|---|--|
| 17. Does the Institution have Management Information System ? | Yes |
| <p>If yes, give a brief description and a list of modules currently operational (maximum 500 words)</p> | <p>NRCM College Management System connects the students, Staff members, Parents and Management of our Institution which covers each and every activities of the institution from admission to feedback. It improves overall Campus Productivity, as all Stakeholders can use the system simultaneously from anybody, anywhere and anytime. No communication gap among stakeholders as it provides multiple channels such as web, email and SMS. It enables the Parents to view results, Campus news, Attendance details and performance reports of their ward and post their suggestions. So the continuous monitoring and quick decision making is now possible with complete set of data availability. It is also one of the Go Green initiatives of our Institution because it leads to Paperless Campus.</p> |

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

Being the affiliated institute, the Institute implements the Curriculum prescribed by JNTUH. For effective implementation of the Curriculum, the following Process is developed and deployed. Plan for effective implementation of Curriculum: At the outset, the Principal of the college conducts meetings with the various Department Heads and examination in charge to develop strategies for effective implementation of the curriculum. Teachers are encouraged to impart the Curriculum through Creative Teaching Methods such as Audio Video tools, Brainstorming, Role- Plays, Stimulating Classroom Environment, Puzzles, Flipping the Lecture, Analogy, Workshops, Seminars and industrial visits besides the regular/traditional chalk and talk methods. This Institute follows the Academic Calendar Provided by the University which is Circulated to all Departments. At the beginning of the Semester each Faculty prepare Objective Driven Teaching Plan. Faculty members maintain course files. The College encourages Faculty Members to participate in

Orientation/ Refresher Courses/ Workshops/ Seminars/ Industrial training organized by the different organizations so as to update their knowledge and to improve the teaching practices. The College provides ample Books and other teaching and reference materials like Journals, Magazines, Teaching Models and Software to enable teachers to ensure effective delivery of Curriculum. Library committee conducts meeting and takes appropriate decision regarding the requirement and procurement of books, Journals, e-journals. Ensuring Staff have opportunities for keeping their skills and Industry/business expertise upto date. Encouraging Faculty Members to evaluate their own learning and teaching practices. Establishing MOUs with various Industries and Institution. All Faculty members are trained to achieve Programme Educational Objectives and program outcomes. The students of each branch could have gained strong fundamental knowledge, acquired enough managerial skill and developed an inclination for Lifelong learning. The teaching and laboratory plans are approved by Head of the Department (HOD) before the beginning of semester and communicated to students by respective course Teacher. The course files are evaluated by Internal Quality Assurance Committee (IQAC) with the help of concerned course coordinator and HOD. IQAC monitors the academic activities on regular basis to ensure the execution of timetable. It also monitors execution of Academic calendar and teaching learning process and finds the gap, if any. Employing Learner centric techniques such as Assignments, Peer learning, Group Discussion, Brain storming, use of NPTEL lectures, case studies, projects, quiz etc., in the delivery of the Academic courses.

1.1.2 - Certificate/ Diploma Courses introduced during the academic year

| Certificate | Diploma Courses | Dates of Introduction | Duration | Focus on employability/entrepreneurship | Skill Development |
|------------------------|-----------------|-----------------------|----------|---|-------------------|
| CATIA | NIL | 08/01/2018 | 6 | Employability | Skill Development |
| R Programming | NIL | 06/07/2018 | 6 | Employability | Skill Development |
| Hyper Mesh | NIL | 01/01/2018 | 6 | Employability | Skill Development |
| Android Based Robotics | NIL | 01/08/2018 | 6 | Employability | Skill Development |

1.2 - Academic Flexibility

1.2.1 - New programmes/courses introduced during the academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|------------------|-------------------------------|-----------------------|
| BTech | Digital System Design EC303PC | 08/10/2007 |

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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 |
|----------------------------------|--------------------------|---|
| BTech | Civil | 13/07/2016 |
| BTech | EEE | 13/06/2016 |
| BTech | Mechanical | 02/08/2016 |
| BTech | ECE | 13/06/2016 |
| BTech | CSE | 02/08/2016 |
| Mtech | EEE | 19/09/2016 |
| Mtech | ME | 19/09/2016 |
| Mtech | ECE | 19/09/2019 |
| Mtech | CSE | 19/09/2019 |

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

| | Certificate | Diploma Course |
|--------------------|-------------|----------------|
| Number of Students | 265 | 0 |

1.3 - Curriculum Enrichment

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

| Value Added Courses | Date of Introduction | Number of Students Enrolled |
|---------------------------------------|----------------------|-----------------------------|
| Gender Sensitization-ME | 12/07/2018 | 76 |
| Environmental Sciences and Technology | 14/12/2018 | 76 |
| Professional Ethics-ME | 09/07/2018 | 75 |
| AUTO CAD-ME | 02/05/2019 | 68 |
| CATIA-ME | 06/08/2018 | 65 |
| HYPER MESH-ME | 17/12/2018 | 45 |
| Machine Learning with Python (ECE) | 13/03/2019 | 90 |
| Campus Recruitment Training EEE | 09/07/2018 | 21 |
| Course on Introduction to IOT | 17/12/2018 | 65 |
| Programming Essentials in C | 04/02/2019 | 78 |

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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 |
|-------------------------|---|---|
| BTech | Campus Recruitment Training (All Years) | 201 |
| BTech | Internship for Main Project (MECH) | 27 |
| BTech | Swachh Bharat Summer Internship programme | 75 |
| BTech | Internship for Mini Project (MECH) | 51 |
| BTech | Internship-ECE | 52 |
| BTech | BHEL Hyderabad-EEE | 34 |
| BTech | BHEL Vijayawada-EEE | 1 |
| BTech | NTPC | 4 |

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1.4 - Feedback System

1.4.1 - Whether structured feedback received from all the stakeholders.

| | |
|-----------|-----|
| Students | Yes |
| Teachers | Yes |
| Employers | Yes |
| Alumni | Yes |
| Parents | Yes |

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

Feedback Obtained

The Institute uses well planned feedback systems for Collecting feedback from all Stakeholders. Stakeholders are encouraged to interact with the Principal, concerned HOD's and give their responses. After collecting the feedback from the stake holders, it will be analyzed and action will be taken. •Feedback given by the Students are Core Internship must be encouraged, More Industrial visits must be arranged and Hands on Training on advanced Technology must be included and action taken on its are, sent students for internships during vacations, Industrial visits

organized for all departments and Workshops, on Solving problem using MATLAB, Research methodologies, Python etc. are conducted. •Feedback given by the Alumni are Industry oriented knowledge and learning scheme should be implemented, Special courses (java,.net,etc) should be taught instead of regular courses, and action taken on its are Innovation knowledge sharing with students, Workshops to make students aware of new Software latest techniques and In house Projects carried out in project lab under the guidance of Faculty members. •Feedback given by the Employees are Updates on current technologies and Students need to train up for Placements for different Organizations and action taken on its Organized guest lectures on advanced topics and encouraged to register MOOCs courses and CRT classes with external agencies(Globberena technologies) • Feedback given by the Parents are Improvements required in communication skills and Personality development training and action taken on its Training and placement classes

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 |
|-----------------------|--------------------------|---------------------------|--------------------------------|-------------------|
| BTech | ME | 120 | 25 | 24 |
| BTech | CE | 60 | 31 | 26 |
| BTech | EEE | 60 | 15 | 12 |
| BTech | ECE | 120 | 120 | 98 |
| BTech | CSE | 180 | 248 | 180 |

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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 |
|------|---|---|---|---|--|
| 2018 | 1699 | 23 | 151 | 6 | 157 |

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 | Number of teachers using ICT | ICT Tools and | Number of ICT | Numberof smart | E-resources and |
|-----------|------------------------------|---------------|---------------|----------------|-----------------|
|-----------|------------------------------|---------------|---------------|----------------|-----------------|

| | | | | | |
|-------------------------|---------------------------|----------------------------|---------------------------|-------------------|------------------------|
| Teachers on Roll | (LMS, e-Resources) | resources available | enabled Classrooms | classrooms | techniques used |
| 157 | 118 | 27 | 6 | 5 | 14 |

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

The Principle objective of introducing the “Student Mentoring System” is to guide and monitor the academic, career advancement, Co-Curricular and Extra-curricular performances of the Student and accordingly mould the students to utilize all the resources available in the institution for holistic development of the students. The system encompasses continuous monitoring the students performance, identifying the strengths, shortcomings, Behavior and attitude, and offering amicable support and specific suggestions to develop the students in all aspects. The system also aims at implanting good habits, behavior and human values among the students. Mentoring (counseling) system consists of: 1. There is one counselor for every 15 students. 2. Whenever necessary, the students get counseled. 3. Prior to Interaction with the students, the faculty ascertains the details of attendance, performance in examinations/tests. 4. Details of attendance and performance are discussed during the one to one interaction, suggestions / comments, if any, are noted in the “Student Mentoring Proforma” and in the first week of every month Attendance Report is sent to the Parents, whose wards have less than 75 attendance. 5. On every day counselors will make a calls to the parents (for absentees) 6. Those who got below 65 attendance, counselors invite parents to the campus and make the students and parents aware of the attendance information. 7. The students also are counseled on Career Guidance, higher studies and entrepreneurship. 8. Good and top performers are further encouraged to aim at University ranks, higher studies and jobs at Multi-national companies. 9. If some students are identified as slow learners, remedial classes are arranged for them in consultation with the Head of the Department. The students are encouraged to participate in various co-curricular and extra-curricular activities organized by the individual departments and institution. The importance of participating in such activities for personal and professional development is emphasized during the counseling sessions.

| | | |
|---|------------------------------------|------------------------------|
| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
| 1780 | 157 | 1 : 11 |

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 |
| 157 | 157 | 0 | 15 | 32 |

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

| | | | |
|----------------------|--|--------------------|---|
| Year of Award | Name of full time teachers receiving awards from state level, national level, international level | Designation | Name of the award, fellowship, received from Government or recognized bodies |
| | | | |

| | | | |
|------|------------------------|---------------------|--|
| 2018 | M.Venkateswar Reddy | Associate Professor | Leadership - SAE contribution award by SAE India |
| 2018 | G.Satish Kumar | Associate Professor | Long Time Faculty |
| 2018 | Dr.S.M Ramesh | Professor | Best Researcher award by IASTE |
| 2018 | Mrs K.Lakshmi | Associate Professor | Long time faculty |
| 2018 | Mr.A.Veera Babu | Associate Professor | Long time faculty |
| 2019 | Dr Sayantee Chattergee | Professor | Best Teacher Award |
| 2018 | Dr.U.M.Fernendes Dimlo | Professor | Best teacher award by NRCM |

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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 |
|----------------|---------------------------------|----------------|--|---|
| BTech | All Programme 01,02,03,04,05 | II-I | 08/12/2018 | 21/01/2019 |
| BTech | All Programme 01,02,03,04,05 | III-I | 08/12/2018 | 17/01/2019 |
| BTech | All Programme 01,02,03,04,05 | IV-I | 08/12/2018 | 10/01/2019 |
| BTech | All Programme 01,02,03,04,05 | II-II | 18/05/2019 | 26/06/2019 |
| BTech | All Programme 01,02,03,04,05 | III-II | 18/05/2019 | 24/06/2019 |
| BTech | All Programme 01,02,03,04,05 | IV-II | 18/05/2019 | 12/06/2019 |
| BTech | All Programme 01,02,03,04,05 | I-I | 22/12/2018 | 30/01/2019 |
| BTech | All Programme 01,02,03,04,05 | I-II | 16/05/2019 | 29/06/2019 |

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

For theory subjects the distribution shall be 25 marks for Internal Assessment and 75 marks for External Assessment. For theory subjects, during a semester there shall be 2 Midterm Examinations.

Each Mid- term examination consists of one Objective Paper, one Descriptive Paper and one assignment. The Objective paper and the descriptive paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for descriptive paper). The objective paper is set with 20 bits of multiple choices and fill-in the blanks for a total of 10 marks. The essay paper shall contain 4 full Questions out of which, the student has to answer 2 questions, each carrying 5 Marks. While the first mid-term examination shall be conducted on 1 to 2.5 units of the syllabus, the Second mid-term examination shall be conducted on 2.5 to 5 units. Five (5) marks are allocated for Assignments (as specified by the subject teacher concerned). The first Assignment should be submitted before the conduct of the first mid-examination, and the second Assignment should be submitted before the conduct of the second mid-examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each candidate. For practical subjects there shall be a continuous evaluation during a semester for 25 marks for internal and 50 marks for end semester examination. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The end semester examination shall be Conducted with an external examiner and the laboratory teacher. The External Examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the University.

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

The Institution ensures effective time management and Timeliness. It receives the university given Timeline and adheres to it. In the beginning of the Academic year, academic calendar is published by the University for Respective Course. The college carries out effective planning to stick to academic calendar. This allows the teachers and the students to space out their teaching and learning and regular assessment of the same. The college conducts assessment to the students in three different components - theory, objective and assignments. The theory component is marked for 10. The objective component is marked for 10. The assignment is marked for 5. These tests are conducted in evenly spaced out intervals to avoid pressuring the students with too many examinations. Every academic year consists of two semesters. Each semester is to be of 16 weeks. The first Continuous Internal Examination (CIE I) also known as MID I along with the Lab Internal 1 is conducted after 8 weeks of class work. CIE II (MID II) and Lab Internal II are conducted after 16 weeks of class work. Within the above mentioned 8 weeks of class work, the concerned syllabus is taught to the students. They are then tested on the same material. An average of both

these examinations is calculated to attain the final internal marks of the student. These marks are also vitalized to decide the course of nature for teaching slow students and rectify their performance before the external examination. This helps the students attain knowledge beyond the syllabus as these topics are not covered by the exams conducted by the university but are still relevant. These assignments are given within a set timeframe. The students are to complete them within the time given to adhere to the university timeline. Following the university calendar, every department creates internal calendars to ensure timely delivery of syllabus. Every teacher follows a strict agenda that is discussed and approved by the head of their respective department. This is followed by deducing a day-to-day division of topics and chapters. These topics and chapters are chosen keeping the upcoming CIE in mind. The timeline created allows for the students to complete the given syllabus in enough time. The students are given plenty of time before the examinations as well to prepare and practice their concepts. In case of any required change, the university communicates the modification to the college and the college enforces the same.

2.6 - Student Performance and Learning Outcomes

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

<http://www.nrcmec.org/CSE-PEOs.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 |
|----------------|----------------|--------------------------|---|---|-----------------|
| 01 | BTech | CE | 36 | 24 | 66.67 |
| 05 | BTech | CSE | 126 | 65 | 52 |
| 04 | BTech | ECE | 82 | 42 | 51.22 |
| 03 | BTech | ME | 50 | 42 | 84 |

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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://www.nrcmec.org/IQAC-cell.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 | 210 | Path Creators | 0.25 | 0.25 |
| Major Projects | 210 | Tech fort | 0.5 | 0.5 |
| Projects sponsored by the University | 365 | College-Solar Flat Plate Collector | 0.3 | 0.3 |
| Projects sponsored by the University | 365 | College -Robot | 0.12 | 0.12 |
| Projects sponsored by the University | 365 | College -Vertical Axis Windmill | 0.12 | 0.12 |
| Industry sponsored Projects | 180 | Unisystems Ltd | 2.46 | 2.46 |

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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 |
|--|-------------------|------------|
| One day workshop on IPR | CE | 08/02/2019 |
| A seminar on Employability skills | CE | 18/08/2018 |
| A seminar on career opportunities | CE | 18/11/2018 |
| HYPERMESH | ME | 17/12/2018 |
| CATIA | ME | 06/08/2018 |
| AUTOCAD | ME | 05/02/2019 |
| workshop on PCB Designing | ECE | 06/02/2019 |
| workshop on Android Based Robotics | ECE | 30/07/2018 |
| A guest Lecture on Machine Learning with Python | ECE | 30/03/2019 |
| A guest Lecture on Industrial applications on digital circuit design | ECE | 10/04/2019 |
| A guest Lecture on Applications of Embedded Systems | ECE | 10/08/2018 |
| Data science using python | CSE | 19/09/2018 |
| Virtual Reality | CSE | 01/02/2019 |

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 |
|-------------------------|--------------------|------------------|---------------|------------------------------|
| Technodeon-2K19 | Kadali Chiranjeevi | GITAM University | 15/01/2019 | Technical paper presentation |

[View File](#)

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

| Incubation Center | Name | Sponsered By | Name of the Start-up | Nature of Start-up | Date of Commencement |
|-------------------|------|--------------|----------------------|--------------------|----------------------|
| NIL | NIL | NIL | NIL | NIL | Nil |

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3.3 - Research Publications and Awards

3.3.1 - Incentive to the teachers who receive recognition/awards

| State | National | International |
|-------|----------|---------------|
| 1 | 1 | 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 |
|------------------------|-------------------------|
| NIL | 0 |

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

| Type | Department | Number of Publication | Average Impact Factor (if any) |
|---------------|------------|-----------------------|--------------------------------|
| International | ECE | 16 | 3 |
| International | ME | 2 | 7.6 |
| International | EEE | 8 | 1.13 |
| International | CSE | 6 | 1.8 |
| National | CSE | 4 | 2.1 |

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

| Department | Number of Publication |
|------------|-----------------------|
| | |

| | |
|------------|-----------|
| CSE | 1 |
| EEE | 1 |
| ME | 12 |
| ECE | 1 |

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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 |
|--|-----------------|------------------|---------------------|----------------|---|---|
| Increase the efficiency in wind turbine system by using DFIG | K. S. Deva Rani | IJSETR | 2018 | 1 | Narsimha Reddy Engineering College | 13 |

[View File](#)

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 |
|--------------------|----------------|------------------|---------------------|------------|---|---|
| NIL | NIL | NIL | 2018 | Nil | Nil | Nil |

No file uploaded.

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

| Number of Faculty | International | National | State | Local |
|------------------------------------|---------------|-----------|-----------|-----------|
| Attended/Seminars/Workshops | 4 | 16 | 31 | 49 |
| Presented papers | 0 | 5 | 10 | 15 |
| Nil | 0 | 0 | 2 | 6 |

No file uploaded.

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 |
|---------------------------------|---|--|--|
| Telanganaku Haritha Haaram MECH | NSS NRCM / JNTUH | 5 | 52 |

[View File](#)

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 |
|----------------------------|-------------------|-----------------|------------------------------|
| Road Safety Lesson Program | NRCM | CREDA | 35 |
| Blood Donation | NRCM | Lions Club-Hyd | 35 |
| Go Green | NRCM | CREDA | 40 |

No file uploaded.

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 |
|---------------------------------|---|--------------------------|--|--|
| Alternate Fuel | PCRI | Wall Painting Quiz | 10 | 14 |
| Cancer awareness Program | Queens NRI | Cancer awareness Program | 4 | 20 |
| Harithaharam | NSS | Harithaharam | 10 | 51 |
| Swatch Bharat summer internship | Swatch Bharat summer internship | Swatch Bharat | 7 | 300 |

No file uploaded.

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 |
|--------------------|-------------|-----------------------------|----------|
|--------------------|-------------|-----------------------------|----------|

| | | | |
|----------------------|-------------------------------------|------------------------------------|-----|
| Research publication | L.Vishnuvardhan Reddy | Narsimha Reddy Engineering College | 60 |
| Research publication | G. Reddy Babu, B. Madhusudana Reddy | Narsimha Reddy Engineering College | 150 |
| Research publication | Dr. N. Naga Sathish, PVVSR Krishna | Bapatla Engineering College | 240 |
| FDP on CFD | Faculty of Mechanical | JNTUH TEQIP | 5 |
| Mini Project | Students | VN Career solutions | 60 |
| Major Project | Students | VN Career solutions | 108 |
| FDP | Faculty | NRCM | 43 |

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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 | Tech Fort | 01/05/2019 | 31/05/2019 | 130 |

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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 |
|--|--------------------|---------------------|---|
| Armtroniclabs. Pvt Ltd. | 16/07/2018 | Mini project work | 540 |
| Silicon Circuit Research Labs Pvt. Ltd | 16/07/2018 | Workshops, seminars | 342 |
| Kate Technologies Pvt. | 10/09/2018 | Software | 60 |

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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 |
|--|--|

50

46.87

4.1.2 - Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|--|-------------------------|
| Campus Area | Existing |
| Class rooms | Existing |
| Laboratories | Newly Added |
| Seminar Halls | Newly Added |
| Classrooms with LCD facilities | Newly Added |
| Seminar halls with ICT facilities | Newly Added |
| Video Centre | Newly Added |
| Value of the equipment purchased during the year (rs. in lakhs) | Newly Added |
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added |
| Classrooms with Wi-Fi OR LAN | Newly Added |

[View File](#)

4.2 - Library as a Learning Resource

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

| Name of the ILMS software | Nature of automation (fully or patially) | Version | Year of automation |
|---------------------------|--|---------------------|--------------------|
| NewGenLib | Partially | 3.1 Beta-1 Discover | 2014 |

4.2.2 - Library Services

| Library Service Type | Existing | | Newly Added | | Total | |
|----------------------|----------|---------|-------------|--------|-------|---------|
| Text Books | 30952 | 8444088 | 131 | 45870 | 31083 | 8489958 |
| Reference Books | 3488 | Nil | 18 | Nil | 3506 | Nil |
| Journals | 743 | 1531472 | 97 | 259600 | 840 | 1791072 |
| e-Journals | Nil | 338558 | Nil | 276703 | Nil | 615261 |
| Digital Database | Nil | 8360 | Nil | Nil | Nil | 8360 |
| Others (specify) | Nil | 39976 | Nil | 13800 | Nil | 53776 |

No file uploaded.

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 |
|---------------------|--------------------|---------------------------------------|-----------------------------|
| NIL | NIL | NIL | Nil |

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4.3 - IT Infrastructure

4.3.1 - Technology Upgradation (overall)

| Type | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MBPS/GBPS) | Others |
|----------|-----------------|--------------|----------|------------------|------------------|--------|-------------|---------------------------------|--------|
| Existing | 690 | 27 | 60 | 6 | 15 | 12 | 12 | 900 | 0 |
| Added | 30 | 1 | 5 | 1 | 1 | 2 | 2 | 50 | 0 |
| Total | 720 | 28 | 65 | 7 | 16 | 14 | 14 | 950 | 0 |

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

1000 MBPS/ GBPS

4.3.3 - Facility for e-content

| Name of the e-content development facility | Provide the link of the videos and media centre and recording facility |
|--|--|
| 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 |
|--|--|--|--|
| 83.75 | 80.1 | 273.5 | 264.85 |

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)

Institution practices a policy of decentralization of authority for efficient look over, maintenance and best utilization of its available resources. The following initiatives are taken to implement the policy. i. The Institution has a building construction and maintenance committee

to supervise the new construction and extensions needed from time to time and also for the overall infrastructural maintenance of the college ii.The college has different committees which are made to look after the maintenance of garden, physical infrastructure, Internet and Wi-Fi facility, cycle stand, canteen, parking zone, hostel facilities, sports maintenance and expansion and for library facilities etc. iii.For the maintenance and repair of computers, the college takes assistance of special technical Experts iv.Electrification and water supply system of the institution is being regularly monitored and maintained. v.Professor in charges deployed to look after the maintenance and repair of the physical infrastructure of the college like Gardens, canteen, sports ground, library, RO water filter maintenance, toilet, girls common room, gymnasium etc.

<http://www.nrcmec.org/campus.html>

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 | NIL | 0 | 0 |
| Financial Support from Other Sources | | | |
| a) National | Telangana Govt. Fee reimbursement | 1039 | 36741000 |
| b) International | Nil | 0 | 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 implemetation | Number of students enrolled | Agencies involved |
|---|-----------------------|-----------------------------|------------------------|
| Meditation | 01/12/2018 | 210 | Dhyana Mano Prasthanam |

[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 | 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 studentsp |
|------|-------------|--|--|--|---------------------|
|------|-------------|--|--|--|---------------------|

| | scheme | | | placed | |
|------|---------|-----|-----|--------|-----|
| 2019 | CRT-ECE | 82 | 50 | 10 | 48 |
| 2019 | CRT-CSE | 348 | 102 | 51 | 145 |
| 2019 | CRT-CE | 27 | 27 | 16 | 13 |

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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 |
|---------------------------|--------------------------------|---|
| 0 | 0 | 10 |

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 |
| Genpact -CE | 28 | 4 | Pathfront-CSE | 7 | 1 |

[View File](#)

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 | 36 | B.Tech | All Departments | JNTUH, MLRIT CMREC, CMRIT, BVRIT, IARE | M.Tech. |

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

| Items | Number of students selected/ qualifying |
|-------|---|
| GRE | 15 |
| TOFEL | 14 |

GATE

5

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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 |
|---|-------------------------|------------------------|
| National Sports Day Basketball Tournament at NRCM | Intercollegiate level-1 | 8 |

[View File](#)

5.3 - Student Participation and Activities

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

| Year | Name of the award/medal | National/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
|------|-------------------------|------------------------|-----------------------------|-------------------------------|-------------------|---------------------------|
| 2018 | National Level | National | 1 | Nil | 14X01A0519 | Bhumpalli nagarjuna reddy |

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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)

OBJECTIVES OF STUDENT COUNCIL: To foster and coordinate all students activities in the Institute. To identify student issues, and promote discussion on them. To develop well informed participative student community life, and create societal awareness. Composition of the student council : The Principal will be Chief Patron and Dean student welfare will be the patron of the student council. The student council will have an executive committee and Class/Section Representatives. The executive committee shall consist of the following secretaries and deputy secretaries, who are elected by the electoral colleges mentioned against each position. EXECUTIVE COMMITTEE Secretaries Secretary, Academic Secretary, Hostels Secretary, Sports Secretary, LAN, Wi-Fi , Library and other unassigned miscellaneous matters Secretary, PG (Engineering) Secretary, PG Management) Secretary, Girls - 2 (1 UG 1 PG) Deputy Secretaries Dy. Secretary, Academic Dy. Secretary, Hostels Dy. Secretary, Sports Dy. Secretary, LAN, Wi-Fi , Library other unassigned miscellaneous matters Dy. Secretary, Girls (UG) Eligibility Criteria and Election of Secretaries and Deputy Secretaries Position, Eligibility Criteria, Electoral College Secretaries (Academic, Hostels, Sports, LANWi-fi Library others), i) B.Tech final year students including CRs of final year B.Tech, i) Minimum CGPA 6.5 ii) No active backlogs iii) Should not have involved/indulged in any acts of indiscipline, CRs of II, III and IV B.Tech classes Secretaries (Hostels). All CRs and PG Representatives Secretary

PG (Engineering), M.Tech Final year students, , PG representatives from all engineering departments Secretary PG (MBA), All the students of M.Tech., MBA Final year, PG representatives from all engineering departments and MBA Departments Deputy Secretary (Academic, Hostel, Sports, LANWi-fi Library), III B.Tech students including of CRs of III B.Tech, CRs of II, III and IV B.Tech classes Secretary Girls (UG), Girl Student of B.Tech final year, , Selection by Interview Secretary Girls (PG), All the girls students of M.Tech, MBA final year, selection by Interview

Class Representatives (CR) Class representatives for each class shall be elected by all the students of that class, if there is only one section. If there is more than one section in a given year of a particular branch, each section shall elect its class representative. Candidate should have a minimum CGPA of 6.5 and in no event have any active academic backlogs. One CR from each section of First Year B.Tech. One CR from each section of Second Year B.Tech. One CR from each section of Third Year B.Tech. One CR from each section of Final Year B.Tech. The number of class Representatives from different branches for M.Tech. students shall be as follows: • Electrical Engineering, 2 • Mechanical Engineering, 1 (From Thermal Engineering) • Electronics Communication Engineering, 1 • Computer Science Engineering, 2 • One PG representative from M.B.A. course.

Duties and responsibilities of the council The members of the council shall be assisting in: Smooth conduct of the Institute Annual Day every year. Smooth conduct of Foundation Day every year. Smooth conduct of Fresher's day every year. Prevention of ragging on the campus through counseling senior students, helping the administration whenever necessary. Bring to the notice of the administration the particular requirements for improving the student amenities on the campus. Helping the administration in smooth conduct of student activities on the campus. Guiding the junior and needy students to improve their technical, organizational and managerial skills by organizing seminars / symposia / workshops etc. Encouraging innovative and creative skills of the undergraduate and post-graduate students. Organizing the sramadan programs on the campus to improve the cleanliness and greenery. Any activity to improve the knowledge and skills of the campus students. Maintenance of peace and harmony among campus community in general and student community in particular. Arrange expert lectures from eminent persons for career and personality development. Code of conduct of candidates No candidate shall create mutual hatred or cause tension between different castes and communities, religious or linguistic or between any group(s) of students. Candidates shall refrain from criticism of all aspects of private life not connected with the public activities of other candidates. No candidate shall be permitted to make use of print material for the purposes of canvassing. No candidate shall be permitted to conduct/organize procession or public meeting. No candidate shall, nor shall his/her supporters, deface or cause any destruction to any property of the Institute. All candidates shall be prohibited from indulging or abetting activities which are considered to be corrupt practices and offences.

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

The NRCM Alumni association aims to link the alumni to the institute, develop synergistic plans to support the institution and achieve its vision and to enable the institute to add value to all its stakeholders. Our alumni association conducts alumni events and act as a bridge between all institute programs. Alumni attend the function they interact and share their views and opinions. So that, all the members of the association can meet once in a year and share their innovative ideas and thoughts for the development of the College. They were greeted well and provided lunch and refreshments. Alumni explicated to organize the meet every year. Around 200 alumni have been enrolled as life members of Association.

5.4.2 - No. of enrolled Alumni:

243

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

48500

5.4.4 - Meetings/activities organized by Alumni Association :

18/02/2019

CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

Principal Level The Governing Body delegates all the academic and operational decisions based on policy to the Academic Monitoring Committee headed by the Principal in order to fulfill the vision and mission of the institute. Academic Monitoring Committee formulates common working procedures and entrusts the implementation with the faculty members. Faculty Level Faculty members are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. They are encouraged to develop leadership skills by being in charge of various academic, co-curricular, and extracurricular activities. They are given authority to conduct industrial tours and to have tie up with industry experts and appointed as coordinator and convener for organizing seminars/workshops/conferences/FDPs. For effective implementation and improvement of the institute following committees are formed. Other units of the institute like sports, library, store etc., have operational autonomy under the guidance of the various committees/cells. Student Level students are empowered to play an active role as a coordinator of co-curricular and extracurricular activities, social service group coordinator.

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

Yes

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 | <p>B. TECH: Admissions to B. Tech are done through a common entrance test (EAMCET) conducted by the State Government. The minimum qualification for admission to first year of the B. Tech course is a pass in the Intermediate (10 2) conducted by the board of Intermediate education, or any other examination recognized as equivalent thereto with Mathematics, Physics and Chemistry as optional subjects. • 70 of the seats are allotted based on the merit in the EAMCET. • 30 of the seats are earmarked for Management/NRI candidates. • In addition to the above, Diploma holders are admitted in second year of B. Tech to the extent of 20 of intake based on the merit in the ECET, under lateral entry scheme. M. TECH: i) M.Tech - Computer Science Engineering (CSE): B.E / B.Tech in Computer Science and Engineering with valid GATE score / based on the rank obtained in the test conducted by JNTU. ii) M.Tech - Computer Science (CS): B.E / B.Tech in Computer Science and Engineering / Information Technology Computer Science and Systems Engineering. Equivalent (or) MCA with valid GATE score / based on the rank obtained in the test conducted by JNTU. iii) M.Tech - Very Large Scale Integration (VLSI): B.E / B.Tech in Electronics and Communications Engineering / Computer Science and Engineering / Information Technology / Electronics and Instrumentation Engineering with valid GATE score / based on the rank obtained in the test conducted by JNTU. iv) M.Tech - Embedded Systems (ES): B.E / B.Tech in Electronics and Communications Engineering / Electrical and Electronics Engineering / Computer Science and Engineering / Information Technology / Electronics and Instrumentation Engineering with valid GATE score / based on the rank obtained in the Test conducted by JNTU. v) M.Tech - Power Electronics (PE): B.E / B.Tech / AMIE in EEE (or) Equivalent Electrical and Electronics Engineering with valid GATE score / based on the rank obtained in the test conducted by JNTU. vi) M.Tech - Electrical Power Systems (EPS): B.E / B.Tech / AMIE in EEE (or) Equivalent Electrical and Electronics Engineering with valid GATE score / based on the rank obtained in the test conducted by JNTU. vii) M. Tech - Thermal Engineering (TE): B.E / B.Tech / AMIE in Mechanical Engineering / Automobile Engineering / Mechanical Engineering (Mechatronics)/ Aeronautical Engineering with valid GATE score / based on the rank obtained in the PGECET MBA: The minimum qualification for admission to first year of the MBA is a pass in undergraduate course (10 2 3). • 70 of the seats are allotted based on the merit in the ICET. • 30 of the seats are earmarked for Management/NRI candidat</p> |
| Industry Interaction / Collaboration | <p>Institution has interacted and collaborated with various industries i.e. educational tours, field visits and industrial trainings.Education tours and field</p> |

| | |
|---|--|
| | <p>visits are organized for various classes from time-to-time. The institution have signed MOU's with industries.</p> |
| <p>Human Resource Management</p> | <p>i) Selection of teacher in our college was done by non discriminatory screening and selection criteria, Designed to measure the qualified candidates to the particular post. ii) Recruitment positions are co-ordinate by department chair person and dean and approval of rests with Provost. iii) The head of the department utilize a committee to review and screen applications, interview and Recommend a list of suitable candidates for the position. Copies of resumes of the applicants are Provided to all members of committee. iv) Individual candidate evolution process is done by taking a demo lecture of the candidate, and Considering the previous experience and education Endeavour the financial decision for the selection Was done and offer of the employment is done by dean, the chairperson or the head of the department Will notify the principal and provost who will prepare the letter of appointment with a copy of all Necessary materials sent to the director</p> |
| <p>Library, ICT and Physical Infrastructure / Instrumentation</p> | <p>Library, ICT and Physical Infrastructure / Instrumentation The college has a central library with over 29699 volumes of Text/ Reference/ Hand Books. Library subscribes more than 97 national journals and has also large number of e-resources in the form of DVDs and CDs apart from Reports/ Theses/ Dissertations. The library operations are fully automated. Library also provides suitable reprographic facilities to students and teachers. A well equipped library is an icon of quality education in its supreme form. As a new age library, it provides unlimited access to information in many formats and from many sources. To students at NRCM, it offers a perfect platform for research, innovation and development and a tranquil ambience to explore the world of books. To begin with the central library is in sync with the latest in technology, offering a balanced combination of print and digital collections. The online databases like IEEE, ASCE, J-GATE Ebcsohost, Knimbus and membership of digital consortia DELNET and other professional bodies have opened up a wealth of opportunities for scholars and students alike. The library is Wi-Fi and RFID enabled(a technology facilitating self-service of books in areas like issue of books, return, renewal, reissue, reservation and security management), offering the latest state-of-the-art technological applications including e-books, audio-books, e-journals, iPods to maximize the use and ease of library resources. Students at the library can delve into a whole range of text books, reference books and general reading material for enriching his mind and intellect. The central library is the heart of the campus. Kindles have recently been added t5o the existing collection of e-books and plans are on to introduce android application for students to check their account status online. With dedicated sections like Discussion Rooms, Audio Visual Rooms, Digital Library and a separate enclosure for Research and Reference, the central Library is slowly but surely inculcating a reading habit among their young restless.</p> |

| | |
|--|--|
| <p>Research and Development</p> | <ul style="list-style-type: none"> •To motivate faculty to enroll /complete doctoral programmes obtain research guide ship and submit the research proposals to funding agencies •To provide seed funding assistance to faculty members for promoting research culture. •To increase admissions in research programmes •To motivate faculty members to publish research papers in the UGC approved referred journals, SCOPUS indexed journal, books etc., •To provide incentive to faculty members who receive state, national and international recognition/awards. •To motivate faculty and students to participate in extension activities with Government Organisations and Non-Government Organisations. •To encourage NSS units to participate in more extension activities towards community building. •Infrastructure and Learning Resources •To implement Learning Management System, •To enhance the availability and usage of e-journals, books and to increase annual budget for purchase of books and journals. •To upgrade the furniture, lab equipments, computer lab, bio metric device etc., |
| <p>Examination and Evaluation</p> | <p>To make the learning more productive and the evaluation more authentic, the system of learning and evaluation needs to be improved both at university and institution level. Examination reforms initiated by the institution are: i.As per university guidelines 75 attendance is mandatory for all the students to appear in the final examinations. Messages and letters are sent to defaulters and the PTMs are organized to sensitize the parents. ii.Spot Evaluation has been introduced for fair evaluation. Evaluation reforms initiated by the institution are: a.Special tests are arranged for advanced and slow learners. b.Assignments based internal assessment is introduced in all courses. c.To bring uniformity in marking, scripts marked by fresh teachers are rechecked by seniors randomly, and anomalies if any, are removed. d.Answer sheets of the House Tests after marking are shown and discussed with students to bring the fairness in the evaluation system.</p> |
| <p>Teaching and Learning</p> | <ul style="list-style-type: none"> •To train faculty on emerging trends in TLP / subjects by conducting in house FDP or by deputing to programs •To encourage faculty to adopt ICT enabled innovative teaching/evaluation methods. •To motivate advanced learners to participate in national / state level seminars, conferences, competitions, competitive exams and pursue professional courses. •To offer remedial coaching and special guidance for slow learners and advanced learners. •To encourage faculty to apply and obtain awards, recognitions and fellowships from recognized institutions. •To encourage students to secure higher pass percentage and University ranks. |
| <p>Curriculum Development</p> | <ul style="list-style-type: none"> •Value-added courses imparting transferable and life skills to be conducted •To introduce certificate programs/self learning courses and study abroad programs •To motivate students to undertake field projects and internships. •To conduct programs on contemporary themes to address the gap between industry and academia. •To conduct programmes on cross cutting issues relevant to gender, environment and sustainability, human values, professional ethics etc., •To participate in the |

NIRF and Ranking by various magazines and agencies. •To conduct guest lecture on elective subjects •To enhance the alumni database and increase their participation in the progress of the students/institution

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

| E-governance area | Details |
|--------------------------|--|
| Planning and Development | <p>•Implementation of e-governance in areas of operations: •To implement 'e-governance' in Planning and Development, Administration, Finance and Accounts through the implementation of College Management System. •To provide sponsors for faculty to attend conference/workshop/seminars etc •To conduct professional development programs for teaching/non-teaching staff •To conduct academic /administrative audit •To increase the number of quality initiatives.</p> |
| Administration | <p>Institutional Values Best Practices •To organize more number of programs relating to gender sensitization, • environmental consciousness and sustainability, universal values ethics etc., •To undertake green initiatives promoting eco friendliness and enhance the measures• towards divyangjan friendliness. •To take initiatives to contribute to local community/society.</p> |
| Finance and Accounts | <p>Being a Self- Financing Institution, the College Management has constructed all the imposing buildings with state-of-the-art facilities. It has supplied it with the latest equipments and resources. The remuneration of all the staff is also taken care of by the Management. It also spends a considerable amount by the way of concession to the deserving students. The College generates income from various means, by the way of, •Collection of Tuition Fees from the students •Collection of Bus Fees from the students •Collection of Hostel/Mess Fees from the students •Income earned as Examination Centre for various other institutions. The income generated through the Bus Fees and Hostel/ Mess Fees are utilized for the intended purposes. Hence, the Tuition Fees collected serve as the main source of income. Apart from this, the Management also sanctions funds for the conduct of Seminars, Guest Lectures and Conferences. The Management also provides transportation facilities and food/ refreshments to all the resource persons and participants of such functions. The College has a sound background, run by a Management that is generous and prosperous. Hence, the Management is competent enough, in terms of financial resources, to supply to all the needs of the College for the implementation of autonomy. It will strive to not only adhere to the literal meaning of autonomy, but also give shape to its vision, realizing the real intent behind the same.</p> |
| Examination | <p>For theory subjects the distribution shall be 25 marks for Internal Assessment For theory subjects, during a semester there shall be 2 mid-term examinations. Each mid- term Examination consists of one objective paper, one essay paper and one</p> |

assignment. The objective paper And the essay paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for Objective and 60 minutes for essay paper). The Objective paper is set with 20 bits of multiple choice, fillin the blanks and matching type of questions for a total of 10 marks. The essay paper shall contain 4 full Questions (one from each unit) out of which, the student has to answer 2 questions, each carrying 5 Marks. While the first mid-term examination shall be conducted on 1 to 2.5 units of the syllabus, the Second mid-term examination shall be conducted on 2.5 to 5 units. Five (5) marks are allocated for Assignments (as specified by the subject teacher concerned). The first Assignment should be submitted Before the conduct of the first mid-examination, and the second Assignment should be submitted before the conduct of the second mid-examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each candidate. 2. External assessment i) The End semesters Examination will be conducted for 75 marks which consist of two parts viz. i). Part-A for 25 marks, ii). Part -B for 50 marks. ii) Part-A is compulsory question which consists of ten sub-questions. The first five sub-questions are From each unit and carries 2 marks each. The next five sub-questions are one from each unit and Carries 3 marks each iii) Part-B consists of five Questions (numbered from 2 to 6) carrying 10 marks each. Each of these Questions are from one unit and may contain sub-questions. For each question there will be an "Either" "or" choice (that means there will be two questions from each unit and the student should Answer any one question) For practical subjects there shall be a continuous evaluation during a semester for 25 sessional marks And 50 end semester examination marks. Out of the 25 marks for internal evaluation, day-to-day work in The laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The end semester examination shall be Conducted with an external examiner and the laboratory teacher. The external examiner shall be Appointed from the clusters of colleges which are decided by the examination branch of the University

Student Admission and Support

- To disseminate information related to scholarships to every student to avail the same and to explore the possibility of obtaining scholarship/sponsors from industries
- To conduct capability enhancement and developments programs such as soft skills training life skills, vocational skills, yoga, self-defense, Values etc
- To encourage students to participate in intercollegiate activities Viz. Quiz, Debates, sports and other events.
- To conduct career guidance program, awareness session on opportunities for higher studies/ placement motivation, entrepreneurial avenues, competitive exams etc.
- To provide placement training and increase the campus placement
- To conduct session to create awareness regarding competitive examinations conducted at state/national and international level

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 | B.SUDHARSHAN REDDY | International Conference On Innovative Trends In Engineering Science And Management-Icitem 2019 | NRCM | 2500 |

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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) |
|------|--|---|------------|------------|---|---|
| 2018 | Remote sensing GIS | Remote sensing GIS | 02/07/2018 | 07/07/2018 | 26 | 5 |
| 2018 | Two days student workshop on "Machine | Two days student workshop on "Machine | 20/08/2018 | 21/08/2018 | 32 | 2 |
| 2019 | A seminar on "Innovation Creativity in Engineering" | A seminar on "Innovation Creativity in Engineering" | 05/01/2019 | 05/01/2019 | 38 | 1 |
| 2019 | A seminar on "Alternative energy applications" | A seminar on "Alternative energy applications" | 06/03/2019 | 06/03/2019 | 18 | Nil |
| Nil | A seminar on "Recent trends in power system" | A seminar on "Recent trends in power system" | 05/08/2019 | 05/08/2019 | 21 | 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 | From Date | To date | Duration |
|---|------------------------|-----------|---------|----------|
|---|------------------------|-----------|---------|----------|

| | attended | | | |
|--|----------|------------|------------|---|
| A Five Day Faculty Development Programme on Research Trends on Electronics and Communication Engineering | 4 | 02/07/2018 | 06/07/2018 | 5 |
| A Two Day national workshop on preparing for NBA accreditation and SAR filling | 1 | 18/02/2019 | 19/02/2019 | 2 |
| A Five Day Faculty Development Programme on Effective Teaching and learning of Flexible Pavement Design | 1 | 17/08/2018 | 21/08/2018 | 5 |
| Reference management knowledge Organization for journal writing | 6 | 10/12/2018 | 14/12/2018 | 5 |

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

| Teaching | | Non-teaching | |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent | Full Time |
| 157 | 157 | 89 | 89 |

6.3.5 - Welfare schemes for

| Teaching | Non-teaching | Students |
|--|--|---|
| The management contributes an amount equal to the employee share for 1. EPF. 2. Staff Club 3. Medical Leave Provision is given to the faculty and staff members based on the request. 4. Faculty members are allowed to avail Winter and Summer vacation 5. On duty leave is provided to faculty members for attending various conferences, workshops, seminars, FDPs and examination duties. 6. The management encourages the faculty members for pursuing Ph.D. program by providing adequate number of On duty leave. | The management contributes an amount equal to the employee share for 1. EPF. 2. Staff Club 3. Medical Leave Provision is given to the faculty and staff members based on the request. 4. Faculty members are allowed to avail Winter and Summer vacation 5. On duty leave is provided to faculty members for attending various conferences, workshops, seminars, FDPs and examination duties. 6. The management encourages the faculty members for pursuing Ph.D. program by providing adequate number of On duty leave. | Fees concession for the students having good academic background • Scholarship provided by state government. • Medical assistance to students: health centre, health insurance etc. • Skill development (Spoken English, Computer Literacy, etc.,) • Practical Knowledge Training |

6.4 - Financial Management and Resource Mobilization

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

Yes. The internal audit of the institutional finances is conducted by the accounts department headed by the accounts manager, a qualified Chartered Accountant. External audit is performed by a separate and registered auditing firm. Last audit was done in financial year 2017-2018 The major sources of institutional receipts/funding are : Students tuition fees

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 |
|--|-------------------------------|--------------------|
| TCS | 768418 | Online Examination |

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6.4.3 - Total corpus fund generated

7200000

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 | Yes | ISO/NAAC/NBA | Yes | other department HODs |
| Administrative | Yes | Auditor | Yes | Principal/Management |

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

Parent's feedback: The feed-back is collected from the parents whenever they visit the college orally/online and also collected from them through their wards / post with regard to teaching and learning process, outcomes, faculty performance, infrastructure, placement and training activities and other facilities. Based on the feedback, the remedial measures are carried out with sincerity.

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

1. Allowed to go for continuing education 2. Industrial training during summer vacation is allowed to improve their special skills 3. Allowed to go for non formal courses

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

a. Submission of Data for AISHE portal : Yes b. Participation in NIRF : Yes c. ISO Certification : Yes d. NBA or any other quality audit : Yes

6.5.5 - Internal Quality Assurance System Details

| | |
|--|-----|
| a) Submission of Data for AISHE portal | Yes |
| b) Participation in NIRF | Yes |
| c) ISO certification | Yes |
| 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 | ISO 9001 | 10/10/2016 | 10/10/2016 | 09/10/2019 | 56 |
| 2019 | GUEST LECTURE On "Engineering Mechanics" | 04/04/2019 | 04/04/2019 | 04/04/2019 | 63 |
| 2019 | Avishkarana-Tech Fest | 09/03/2019 | 09/03/2019 | 09/03/2019 | 136 |

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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 |
| Guest lecture on women and society | 03/08/2018 | 03/08/2018 | 43 | Nil |
| Strength of Women Entrepreneurs | 26/08/2019 | 26/08/2019 | 37 | Nil |
| Strength of women entrepreneur | 02/12/2019 | 02/12/2019 | 72 | Nil |

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

a) The institution is having solar power system with 100 K.V which is utilized by college. b) The Institutions has solar heating panels installed in the hostels of the campus. c) Sensor based street lights have been installed in the college campus. d) The college lightening system in totally equipped with LED lights.

7.1.3 - Differently abled (Divyangjan) friendliness

| Item facilities | Yes/No | Number of beneficiaries |
|---------------------|--------|-------------------------|
| Physical facilities | Yes | 1 |

| | | |
|--|-----|---|
| Provision for lift | Yes | 2 |
| Ramp/Rails | Yes | 2 |
| Scribes for examination | Yes | 0 |
| Special skill development for differently abled students | Yes | 0 |

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 | 5 | 5 | 16/07/2019 | 1 | Tree Plantation | Tree Plantation Beside cricket ground | 77 |

[View File](#)

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

| Title | Date of publication | Follow up(max 100 words) |
|--|---------------------|---|
| Rules, Regulations Code of Conduct- 2017 | 02/01/2017 | The Institute follows the proper professional and ethical code in the premises. A specified code of conduct has been framed for staff, students and the governing body. The code for staff and students is displayed on the college website and also conveyed to them through meetings, induction programmes conducted from time to time. The principal ensures that all the stakeholders follow the code appropriately. It is also ensured by the faculty that code is followed by the students. |

7.1.6 - Activities conducted for promotion of universal Values and Ethics

| Activity | Duration From | Duration To | Number of participants |
|---------------------------------|---------------|-------------|------------------------|
| Teachers Day | 05/09/2018 | 05/09/2018 | 236 |
| Personality development session | 08/08/2018 | 08/08/2018 | 46 |
| Traditional Day | 08/03/2019 | 08/03/2019 | 1564 |

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

• All vital communications and circulars are circulated a soft copy layout in order to move towards the concept of establishing 'Paperless Office'. • Efficient utilization of water and electricity is undertaken in order to minimize the wastage of energy. • Sapling plantation drive is conducted in all important events and occasions of national importance. • The campus boasts of a variety of species of flowering and non-flowering plants which gives a pleasing manifestation to the campus. • Solar lamps have been installed. • Yoga and Meditation, swachh Bharath, sports, cultural events, and Motivation classes.

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

Initiatives taken by faculty members to improve teaching and learning Process • Concept mapping • Participatory Learning and Action (PLA) Techniques • Socratic Questioning • Formative quizzes • Role-plays • Free writing • e-learning Departmental initiatives to improve the teaching and learning process Some of the initiatives taken by the Department of Electronics and Communication Engineering, Narsimha Reddy College of Engineering are listed below. • The faculty are oriented towards outcome based Education (OBE) and are actively utilizing the OBE to cater the learning needs of students by innovative way. • Faculty Innovations in Teaching is being supported and followed at the institutional level, to improve teaching and learning process. Faculty members are encouraged for certification courses to enhance their competencies. Pedagogical approaches include PPTs, online classrooms, blogs, models, charts etc., along with conventional methodologies. The regular teaching is supplemented by activity based learning to help the students • Understand the concepts clearly • Able to work in teams • Correlate the theory with applications • Improve thinking, analytical and creativity skills • Develop presentation skills • Increase their span of attention • Creating interest and curiosity through activities

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

<http://www.nrcmec.org/ECE-BestPractices.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

NRCM, encourages students towards research and innovation practices. Apart from PG, UG students are also encouraged and given opportunity to get involved in research efforts. The student is required to present the body of work in an objective report and demonstration thereby enabling their critical thinking abilities in problem solving. During the Pre final year, the student will learn how to: Develop a research proposal Carry out a literature search and write a critical state-of-art review select suitable research methods and integrate them within a research

methodology carry out the research processes Analyze results critically write-up the body of work as a technical report outcomes: Also in recent past, students worked on research problems floated with some of the foreign collaborators, have achieved significant success resulting in joint-authored scientific papers. UG and PG students have published more than 25 SCOPUS indexed publications and filed 6 patents in last 5 years from these efforts.

Provide the weblink of the institution

<http://www.nrcmec.org/mission.html>

8.Future Plans of Actions for Next Academic Year

Autonomous status ,Virtual lab, Patents, Research Department recognition, Faculty training in Industries, Interaction between students and IIT professors, Consultancy work, Technology transfer, Staff Travel grant, Student chapters Incubation centers and center of excellence, Research publications ,New teaching methods, Placement Industrial visits