SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

AURORA'S ENGINEERING COLLEGE

RAIGIR,BHONGIR,YADADRI BHUVANAGIRI DIST-508116
508116
www.aurora.ac.in

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NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Aurora's Engineering College (AEC) is recognized by AICTE and approved by Telangana State Government. AEC is affiliated to Jawaharlal Nehru Technological University, Hyderabad. AEC is located on the outskirts of Bhuvanagiri, a town on Hyderabad to Warangal high-way in a sprawling green landscape of about 32 acres of land surrounded by hills in very picturesque settings. Bhuvanagiri can be reached either by road or rail. The nearest Railway station is Bhongir about 50 Kms from Secunderabad railway station. The campus is in proximity to the divine shrine of Lord Lakshmi Narasimha Swamy of Yadagirigutta. The college presently offers 5 UG (B.Tech) courses and 5 PG(M.Tech) courses. Aurora's Engineering College have been established with the aim to provide quality under graduate and post graduate engineering education in the state of Telangana. Equipped with the facilities of International Standard and the faculty with unshakable commitment to provide quality education, this college has been marching forward to set new standards in the field of engineering education. Because of this commitment and the dedication shown by the faculty and the staff, today, this college is frequently rated as the best engineering college by the magazines like India Today and Business World.

Vision

Aurora is committed to making itself "Synonymous with Learning" and to be a center of excellence in higher technical education, research, development and support services, provide pre-eminent educational experience that are stimulating response to the needs of the country in particular, and to the world in general, and capable of making significant contribution to individual and social empowerment.

"To be synonymous with learning and be a centre of excellence in technical education that lays emphasis on Research, Development and innovation for providing eminent professionals to the society"

Mission

To achieve academic excellence, develop dynamic and socially conscious technical leader with professional ethics and human values, and to encourage acquisition of interdisciplinary knowledge and understanding among these professionals, leading to some of the greatest inventions and achievements through career-oriented courses conducted by high profile faculties, complemented with globally interactive learning processes and leading edge technology.

"To achieve academic excellence, develop dynamic and socially conscious technical leaders through carrer oriented courses with student centric learning processes."

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Enlightened, forward looking and financially sound management with a vision for bringing up the institution to the highest level of quality.
- Strong backup from Aurora Consortium.
- Effective, efficient, and collective academic leadership.
- Highly transparent governance and administration with well-defined decentralization of authority.
- Highly qualified, experienced, stable, committed and students-caring faculty.
- Active alumni association with large membership and some of our alumni are in senior executive positions.
- Campus with all amenities like Modern Gym, Aerobic centre, club house, sports and games facilities, round the clock medical and ambulance facilities to create a work culture of utilization of resources beyond the working hours.
- Innovative facilities like Entrepreneurship development cell, Technology incubation centre to hone the skills of students.
- Fee waiver policy for merit students at the entry based on EAMCET rank and cash prizes for encouraging the student inprofessional body activities like paper presentation, project exhibition etc.
- Well-defined HR policy for faculty incentives for research contribution, faculty retention, consultancy, QIP and staff development programmes.
- Well-defined AOP (Annual operating plan) for various capital and revenue expenditures.
- Association with professional bodies viz, ISTE, IE,IEEE,CSI etc.
- ERP for all the institutional activities viz. finance, purchases, inventory and student academic data base with web reporting facility to the parent to access the progress of their wards.
- Green and eco-friendly campus.
- Wi-Fi facility with e-learning resources on campus LAN and round the clock web connectivity.
- Merit scholarships for academic excellence

Institutional Weakness

- Industrial consultancy is to be strengthened considerably.
- Potential of networking with other institutions is not fully explored.
- Industry-Institute Interaction needs to be strengthened.
- Limited scope for consultancy in the existing laboratories.
- Insufficient usage of resources to impart training to enhance employability.
- Less interaction/collaboration with reputed universities at national/ international level in termsof specialized courses and sharing the resources.
- Scope for more industry sponsored projects

Institutional Opportunity

- Inter-disciplinary research and collaboration with other institutes to develop effective engineering solutions for the problems in the fields of Nano technology, alternate energy sources, environmental

engineering, Distributed computing, signal processing etc.

- Possibility of offering electives and add on courses in the emerging areas in collaboration with industries.
- Networking and sharing of facilities with other institutions and industries. Industry that is looking forward to partner in research projects, outsourcing their training programs, and extending consultancy projects to larger number of academic institutes.
- Leveraging the strong links with distinguished alumni to increase the interaction with industry for development projects, consultancy works etc.
- Collaboration with foreign Universities for possible exchange programmes.
- Inviting senior professor /adjunct professor/distinguished professor in the specialized areas.
- Sharing the spare capacity of the infrastructure byoffering vocational training to increase the non-tuition revenue.
- Establishment of Centre of Excellence for research and training and development in collaboration with industries and research laboratories in the specialized areas.
- Approach research organizations and funding agencies to improve the funding/research.
- Academic consultancy opportunity is there to be explored.
- Moving towards deemed university/ private university status.

Institutional Challenge

- Attrition of faculty in high-demand areas to industry and other institutes.
- Placing all the students in industry internship.
- Peer Competition from other institutions located in urban areas.
- Dynamic changes in educational and recruitment policies.
- Paucity in the availability of committed and quality faculty with passion for teaching.
- Students opting engineering education by chance and not by choice because of free education policy.
- Ensuring all the students employable.
- Impact of industry slowdown on the campus placements.
- Attracting meritorious students.
- Addressing academically weak students.
- Preparing employable engineers to face the challenges (Present and future).

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The college follows the curriculum defined by Jawaharlal Nehru Technological University, Hyderabad. A well-defined program outcomes and course outcomes aid in providing direction to teaching and other research activities. Feedback from all stakeholders are given due importance in defining graduate attributes and design of course outcomes. A regular system of obtaining students feedback helps in improving the learning outcomes. The institute has put in place extensive infrastructure for engineering and technology led learning.The process of course allocation, planning and monitoring of delivery is ensured through departmental meetings and reviews. The major focus is on assessment of course outcomes as against the defined course objectives. Various class committees are formed for each section of classes. They meet periodically and students provide their inputs on the progress of the course, issues in learning, if any and suggestions for further action. On a semester basis, written feedback is obtained from students for each course. These are used for better

curriculum delivery in the consequent semesters. Guest lectures from eminent persons from industry and research fields give inputs about the current trends in the industry. One of the goals of the institution is to make students ready for higher studies, employable and if possible train them to be entrepreneurs. Additionally, assignments, internal-tests and end- course surveys are conducted to judge the understanding of the students.Continuous Assessment and mock exams of laboratory work is carried out to assess the laboratory skills acquired by students.

Teaching-learning and Evaluation

The Institute assesses the learning levels of the students after admission and organizes special program for advanced learners and slow learners. The institute conducts orientation program to all the newly admitted students. The Students are categorized as per their EAMCET rank, their medium of study of SSC & Intermediate, States of their SSC & Intermediate Studies. Students from Rural Areas and Backward Classes are also identified. In case of students belonging to rural background English speaking/Personality Development classes are conducted. Communication Skills are assessed on four parameters pronunciation, grammar, vocabulary and fluency. Communication skills and English speaking, management skills. Conducting remedial lectures or practical sessions for students who are likely to fail, for improving their academic performance. The institution organizes various events like Paper presentation, Project Exhibitions, Poster presentations, Workshops, and Competitions to increase the thinking, creativity and scientific attitude among the students. Students are encouraged to participate in the seminars, symposium and conferences conducted by other Institutions also. The Institute provides financial support to the students to attend such programmes to enhance their knowledge base. Enhance the extracurricular abilities like leadership skills, management skills etc. apart from traditional teaching.Helping students from economically weaker section in obtaining reimbursement of their college fees or through earn-while-learn Government and University schemes.

Research, Innovations and Extension

The college has got its unique mechanism to check the malpractices and plagiarism in research.It is mandatory to follow certain code of ethics and also strictly adhered in implementing them, Research integrity requires not only that reported conclusions are based on accurately recorded data or observations but that all relevant observations are reported. Ownership of and access to Data is more focus on rights of ownership and access to data carried out as part of research by an individual or group of faculty and students. Publication of research results is important as a means of communicating to the scholarly world so that readers may be informed of research results and other researchers may build on the reported findings . Reporting suspected research misconduct is a shared and serious responsibility of all members of the academic community. If a finding of error, either intentional or inadvertent, or of plagiarism should be made subsequent to publication. An investigator must submit progress and final research reports to sponsor at times specified in the award. All the works carried out by the students and faculty as part of research, university academic projects, extension projects, journals or papers to be submitted in national/ international journals or conferences is scrutinized by the research and development cell and the mechanism. Institute also signs MoUs on regular basis with the reputed organizations to carry out the research and consultancy works.

Infrastructure and Learning Resources

The Institute has adequate facilities for teaching learning in terms of Physical Facilities, Administration

Building, Classrooms, smart class rooms ,Laboratories ,Computing facilities ,Seminar hall ,Transport ,Water Supply ,Power Supply etc.,The campus is divided into Administrative, Academic, Sports and Living areas. Student Amenities like primary health Centre, Library, Canteen, Dedicated facilities for Stationary and other essential facilities are provided. Separate rest rooms, a health room and refreshment rooms are available for the students. The college has enough class rooms, drawing halls and labs. The college has spacious rooms equipped with all teaching aids like LCD, internet, white Boards and Interactive Boards etc. to facilitate the faculty to use the ICT enabled teaching resources.Separate labs for each department are available to carry out the course work and also to do research work. The College has seminar halls equipped with required AV system. Auditorium (indoor) is used for conducting seminars, inter-collegiate events, fine-arts, fests, etc. The college has a good fleet of buses and other vehicles. Bus Facility for all over places are available. Besides, the college is giving due attention to supply clean drinking water to students by installing a number of aqua guard Systems in Departments and presently, Power Generators with good power capacity, UPS, Solar street lights and lamps available. The Physical Education Department maintains the grounds for both indoor and outdoor games. The Institution has formed the cultural and literary clubs. The college has good ventilated spacious library with more than 42879 volumes and 8650 tittles.

Student Support and Progression

The institute has been known for vibrant student community right from its inception. They have been in the forefront of all the co-curricular and extra-curricular activities The Active Student Council of our institute is named as Student Activity Committee (SAC).The SAC members play an important role in the administrative and academic committees in the institute. The SAC members play an important role in the anti-ragging committee where they will act like mentors to the SAC have been supporting the college in the student issues by placing a suggestion box where a student can give any type of grievance in the college. The SAC conducting many activities such as awareness programs, technical events, workshops, guest lectures, festivals etc., The SAC has created a social networking group to update the activities related to examinations, administration, academics of the institute. The students are members of various professional bodies such as IEEE, ISTE, SAE, CSI the class representatives will keep the record of the class activity, syllabus status, feedback and attendance to maintain transparency between the subject faculty and the students issues related to academics. R&D Cell of the institute organizes talks and events by experts from various fields of the industry. It also ensures that various external agencies conduct classes on campus to train students on GRE/GMAT, GATE, IAS examinations etc. Officers from defense services address students. Also, experts from foreign universities address the students on nuances of studying abroad from time to time.

Governance, Leadership and Management

The institution also delegated authority to the administrative unit of the institution. The institution promotes the culture of participative management. The participative management includes management of the institution, Principal,HoD's, Faculty, Non-Teaching Staff and Students. The faculty is actively involved in planning and implementing the academic calendar and teaching learning process. The co-curricular and extracurricular activities are planned and organized by the faculty, non-teaching staff and students.HOD's are involved in development, procurement, selection of junior faculty, program and activities, starting of new programs, etc. The Governing Body gives suggestions and monitors the procurement, introduction of new programs and welfare activities.Providing excellent infrastructure and conducive learning environment. Establishing vital Research & Development facility.Secretary is the Chairman of the Governing Body. Statutory bodies such as IQAC Cell, Anti-ragging Cell etc., as per the university/ government guidelines are also included in the

organizational structure of the institution. There are different bodies that give academic and administrative leadership to the institution. Free transportation to all supporting staff from their residence to college & Sabbatical leave to undertake study or research or other academic pursuits solely for the objective of increasing their proficiency and usefulness to institution on higher education system. The salary is directly credited to the employee's bank account.Faculty with more than two year experience in our institution is provided with funds for attending conferences and workshops.Very attractive promotions, increments and benefits are given to all the staff members who complete 2 years of service.

Institutional Values and Best Practices

Institution shows gender sensitivity in providing facilities such as Safety and security, Counseling, Common Room.College is working ambidextrously to work on a concept i.e. waste to become wealth- refuse to become resource- trash to become cash.We work on waste management focusing on preventing the production of waste through waste minimization and the re-use of waste materials through recycling process.Our organization has the dedicated and efficient team to work towards the successful implementation of re-use of waste materials through recycling.Our team includes students, faculties and staffs. Research and Development cell is established to look after the research and motivate the students to come-up with new ideas.The cell also monitors the publication by the students and faculty members in various SCI/non SCI journals and various national and international conferences.Faculty members have been working on external projects approved by various agencies from past years.Department of Mechanical Engineering has received a grant of 11.6 lacs from AICTE in 2014 for a research project on development of load cell.Additional facilities are provided to the faculties for doing their PhDs such as research leaves, and financial support etc.The faculties are appreciated for completing their PhD while serving in the college by organizing felicitation ceremony for them.Additional leaves are provided to the faculties for attending conferences, FDP programs and workshops etc.Financial support is provided to the faculty and students to participate in conferences, symposia, seminars and workshops etc.Library is well equipped with recent journals to carry out the research.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	Aurora's Engineering college
Address	Raigir,Bhongir,Yadadri Bhuvanagiri dist-508116
City	Bhongir
State	Telangana
Pin	508116
Website	www.aurora.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Tika Ram Choudhary	08685-200261	9100111111	08685-244507	principal@aurora.ac.in
Associate Professor	K Chandrasekhar	08685-200262	9866666448	040-27654568	principal_62@aurora.ac.in

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	09-07-1998

University to which the college is affiliated/ or which governs the college (if it is a constituent college)		
State	**University name**	**Document**
Telangana	Jawaharlal Nehru Technological University	View Document

Details of UGC recognition	
Under Section	**Date**
2f of UGC	
12B of UGC	

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	**Recognition/Approval details Institution/Department programme**	**Day,Month and year(dd-mm-yyyy)**	**Validity in months**	**Remarks**
AICTE	View Document	30-04-2017	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes
If yes, has the College applied for availing the autonomous status?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	Raigir,Bhongir,Yadadri Bhuvanagiri dist-508116	Rural	32.25	18839

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	**Name of Programme/Course**	**Duration in Months**	**Entry Qualification**	**Medium of Instruction**	**Sanctioned Strength**	**No.of Students Admitted**
UG	BTech,Civil Engineering	48	Intermediate	English	60	14
UG	BTech,Computer Science Engineering	48	intermediate	English	120	43
UG	BTech,Mechanical Engineering	48	intermediate	English	60	11
UG	BTech,Electronics And Communications Engineering	48	intermediate	English	120	52
UG	BTech,Electrical And Electronics Engineering	48	intermediate	English	54	5

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				7				15				271
Recruited	6	1	0	7	9	6	0	15	198	73	0	271
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				57
Recruited	45	12	0	57
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				69
Recruited	59	10	0	69
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	6	1	0	0	0	0	0	0	0	7
M.Phil.	0	0	0	1	0	0	0	0	0	1
PG	0	0	0	9	6	0	198	73	0	286

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

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

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	21	0	0	21

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	85	0	0	0	85
	Female	40	0	0	0	40
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	8	4	16	15
	Female	2	2	6	2
	Others	0	0	0	0
ST	Male	4	6	17	15
	Female	2	0	0	1
	Others	0	0	0	0
OBC	Male	106	85	113	103
	Female	56	30	55	26
	Others	0	0	0	0
General	Male	88	61	70	92
	Female	55	37	37	20
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		321	225	314	274

3. Extended Profile

3.1 Programme

Number of courses offered by the institution across all programs during the last five years

Response : 590

Number of self-financed Programmes offered by college

Response : 0

Number of new programmes introduced in the college during the last five years

Response : 3

3.2 Student

Number of students year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1184	1317	1811	2060	2228

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

2016-17	2015-16	2014-15	2013-14	2012-13
565	740	740	639	605

Number of outgoing / final year students year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
293	559	766	536	437

Total number of outgoing / final year students

Response : 274

3.3 Academic

Number of teachers year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
424	384	328	265	211

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

2016-17	2015-16	2014-15	2013-14	2012-13
424	384	328	265	211

Number of sanctioned posts year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
424	384	328	265	211

Total experience of full-time teachers

Response : 649

Number of full time teachers worked in the institution during the last 5 years

Response : 806

3.4 Institution

Total number of classrooms and seminar halls

Response : 52

Total Expenditure excluding salary year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
949.38	879.65	983.9	409.8	373.8

Number of computers

Response : 731

Unit cost of education including the salary component(INR in Lakhs)

Response : 1.10

Unit cost of education excluding the salary component(INR in Lakhs)

Response : 0.52

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

- Academic Calendar is prepared in the beginning of the semester and followed.
- At the time of first year admissions the induction program is arranged for all the students along with their parents.The students and parents are informed about the importance of engineering education, rules and regulations of the Institution and university.
- A copy of the syllabus for all the four years is given to the students.
- Subjects are allocated to various faculty based on their options, experience etc,..
- At the start of each semester, the faculty is provided with a brief training on teaching-learning process including technology enabled teaching process.
- The faculty members are provided with computers, internet connectivity to prepare relevant course material for the subjects handled by them.
- Bridge courses are conducted for the first year students and lateral entry students.
- HODs conduct scheduled regular meetingsfaculty members to ensure syllabus coverage..In case of any shortfall the same is made up through extra classes.
- Content beyond syllabus is identified and taught.
- The Course File prepared by the concerned faculty for a particular course contains the syllabus, session plan, lecture notes, question bank, previous semester university question papers, sample assessment test papers, assignment copies, attendance and assessment record etc.
- Concepts are taught both theoretically and practically in classes which make students gain theoretical knowledge blended with practical application.
- Based on the curriculum, various assessments including weekly internals and model exams are conducted as per the Academic Calendar.
- Remedial classes are conducted for the identified slow learners.
- Performance of the students is regularly communicated to their parents through messages. The parents are invited to meet the HoD, members of faculty and class advisor during PTM to get an update on performance of their ward.
- The Principal and HoDs receive feedback reports about faculty from the students through computerized feedback system and counseling is done if necessary by College Academic Committee.
- Class committee meetings are conducted twice a semester to assess the progress of theory and laboratory subjects to initiate corrective actions wherever required.
- Students undertake to see practical application of engineering, to enrich the knowledge gained in the classrooms.
- Students are encouraged to participate in various competitions conducted by industries, academic institutions and research agencies.
- Students are guided to do a project and present during the project exhibition conducted by the Institution every year.
- The college invites experts from reputed organizations and academic institutions to deliver guest

lectures to the students on current technologies & enrichment topics.

- Use of online courses through NPTEL, edX, open2study, Schneider University etc are widely encouraged.
- Faculty members are encouraged to provide their input for curriculum upgradation.
- The institution conducts various FDPs for faculty both at institutional and departmental levels, guest lectures for students by experts from industry and R&D labs, in order to upgrade their technical knowledge.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 34

1.1.2.1 **Number of certificate/diploma programs introduced year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
6	7	7	8	6

File Description	Document
Details of the certificate/Diploma programs	View Document
Minutes of relevant Academic Council/BOS meetings	View Document
Any additional information	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 1.65

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
5	5	5	5	5

File Description	Document
Details of participation of teachers in various bodies	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years

Response: 100

1.2.1.1 How many new courses are introduced within the last five years

Response: 590

File Description	Document
Details of the new courses introduced	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 5

File Description	Document
Name of the programs in which CBCS is implemented	View Document

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 75.07

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
903	1032	1420	1520	1527

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	[View Document](#)

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

Gender Sensitization:

- In a move to create increased awareness among students towards gender issues, a course on gender sensitization is introduced for second year students of engineering and is effectively implemented by the college.
- The aim of gender sensitization program is to bring definite orientation in the thinking, practices and approach of individuals concerning gender.
- The course will deal with issues pertaining to the relationship between men and women, caste, declining sex ratio, struggles with discrimination, sexual harassment, new forums for justice, and eve-teasing.
- Through accounts of studies and movements, the course also hopes to expose students to new laws on gender issues.
- The course tries to create a culture where these issues can be discussed openly and by rationally reviewing films, taking photographs, writing a poem or a story.
- The assessment of this course is done through practical assignments which require originality and initiative. As a part of course enrichment, college conducts guest lectures and seminars with eminent social workers.
- Women empowerment cell is formed to look after the welfare of all girl students. Gender equity is attained by conducting programs like seminars, debates, group discussions for both boys and girls on a single platform.

Human values and professional ethics:

- To instill Moral,Social and Ethical values, college has chosen Human Values and Professional Ethics as an open elective for third year students of all B. Tech programs.
- This course helps the students to ensure sustained happiness and prosperity which are the core aspirations of all human beings.
- It facilitates the development of a Holistic perspective among students towards life, profession and happiness, by understanding Human reality and rest of existence.
- It highlights plausible implications of Holistic understanding in terms of ethical human conduct, trustful and mutually satisfying human behavior and mutually enriching interaction with Nature.
- As a part of course enrichment, college conducts number of activities like blood donation camp, Swatch Bharath, awareness programs in the nearby villages for promotion of universal values,

national values, human values, communal harmony and social cohesion.
* Code of conduct exists for students, teachers, governing body, administration including Principal /Officials and support staff.
* For observance of fundamental duties pledge will be taken on Voter's Day. To impart national integration college celebrates Republic day, Independence Day etc.

Environmental Sciences:

* Environmental study is interconnected; interrelated and interdependent subject.
* The present course is framed to be a core module for all branches of engineering in the second year.
* The course is designed to create environmental awareness and consciousness among the present generation to become environmental responsible citizens.
* The course description is: multidisciplinary nature of environmental studies, Natural Resources: Renewable and nonrenewable resources, Ecosystem, Biodiversity and its conservation, Environmental Pollution, Social Issues and the Environment, Human Population and the Environment, pollution control acts and Field Work.
* Course enrichment programs are done with the help of NSS wing. Plantations under Haritha Haram, Swatch Bharat Abhiyan, awareness programs for not using plastic, awareness of renewable energy sources, conservation of water and electricity are such programs.

File Description	Document
Link for Additional Information	[View Document](#)

1.3.2 Number of valued added courses imparting transferable and life skills offered during the last five years

Response: 16

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 16

File Description	Document
Details of the value-added courses imparting transferable and life skills	[View Document](#)

1.3.3 Percentage of students undertaking field projects / internships

Response: 52.35

1.3.3.1 Number of students undertaking field projects or internships

Response: 558

File Description	Document
List of students enrolled	[View Document](#)
Institutional data in prescribed format	[View Document](#)

1.4 Feedback System

1.4.1 Structured feedback on curriculum obtained from 1) Students 2) Teachers 3) Employers 4) Alumni 5) Parents For design and review of syllabus semester wise/ year wise
A.Any 4 of the above

B.Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A.Any 4 of the above

File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	[View Document](#)
Any additional information	[View Document](#)
URL for stakeholder feedback report	[View Document](#)

1.4.2 Feedback processes of the institution may be classified as follows:
A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0.46

2.1.1.1 Number of students from other states and countries year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	6	16	5	14

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)
List of students (other states and countries)	[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 40.9

2.1.2.1 Number of students admitted year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
399	250	332	282	576

2.1.2.2 Number of sanctioned seats year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
828	900	900	1020	900

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 38.94

2.1.3.1 Number of actual students admitted from the reserved categories year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
268	159	255	217	347

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

2.2.1 The Institute assesses the learning levels of the students after admission and organizes special program for advanced learners and slow learners.

- The institute conducts orientation program to all the newly admitted students to ascertain their knowledge and skill at the beginning of semester. During this, special care will be taken in giving the information to parents/students about academic code of conduct, Institute rules and regulations, eligibility for promoting to higher semesters.
- The Students are categorized as per their EAMCET rank, their medium of study of SSC & Intermediate, States of their SSC & Intermediate Studies.
- Students from Rural Areas and Backward Classes are also identified.
- In case of students belonging to rural background English speaking/Personality Development classes are conducted. Communication Skills (English Speaking) are assessed on four parameters pronunciation, grammar, vocabulary and fluency.
- The major reason for this classification is to understand the student's knowledge so that special programs can be conducted for these students to make them at par with the other students.
- During the first 15 days of academic studies, the teaching faculty will try to understand the subject knowledge & grasping power of the students. This is accomplished by personal discussion with the student, knowing their point of interests, their achievements and goals.
- At the end of these 15 days, the faculty will submit the feedback of every student. This feedback mainly points at their past academics, medium of study, Attentive in the class, interest over the subjects, Response to the Questions, basic knowledge, Communication skills and English speaking , management skills
- Once the feedback is submitted, the College Academic Committee will categorise the students into

"SLOW LEARNERS" & "FAST LEARNERS".

○ Special Care is taken to improve the skills of the **SLOW LEARNERS**. Given is the list of the initiatives taken

  ○ : Regular Assignments are given so that the student can explore and extract the information from Text Books/ Online. This process provides awareness and knowledge about the topic, increases writing skills, analytical and cognitive abilities are also increased.

  ○ **Group Discussions:** Group discussions are conducted to enhance the communication skills and make the students to come out of shyness. This increases learner's confidence, poise and self esteem. Increases rigorous higher order and critical thinking skills. Develops effective speech composition and delivery.

  ○ **Quiz Programs :** Quiz programs are conducted weekly to the slow learners which expands one's knowledge of things and promotes healthy debate among students in order to learn from each other

Seminars: The Slow Learners will be asked to present seminars in the class room. The students can form their own batch and select their comfort topic. This comfortable selection of topic will give the confidence on him to give the seminar effectively. The seminar will be reviewed and the feedback is given for further improvement in presentation. The feedback given should motivate the student to improve the skills.

File Description	Document
Any additional information	[View Document]
Link for Additional Information	[View Document]

2.2.2 Student - Full time teacher ratio

Response: 3.47

File Description	Document
Institutional data in prescribed format	[View Document]

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0.09

2.2.3.1 Number of differently abled students on rolls

Response: 1

File Description	Document
List of students(differently abled)	[View Document]
Institutional data in prescribed format	[View Document]

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

- The Institute follows standard practices for improving teaching-learning process. The decisions are taken collectively in the faculty meeting by College Academic Committee for adoption of efficient teachingpedagogy
- At commencement of the semester, the Institute ensures that academic calendar is prepared for the entire semester which is helpful for improving the quality of teaching and learning.The faculty prepares Teaching schedules for all the courses according to academic calendar university. Course material are made available to the students right at the commencement of the class work
- Course objectives and outcomes are framed by respective teaching faculty by considering the feedback from the students, alumni.
- **Experiential Learning**: This is the process of learning through experience or more specifically defined as "Learning through reflection on doing ".

- **Guest Lectures**: To bridge the gap between the industry and the institute, the department conducts Guest Lectures from Industries. Program wise 5-6 Guest Lectures are conducted. These Guest Lectures are arranged for students to develop their interactive, collaborative and independent learning
- **Industrial Visits**: Department organises industrial visits for students in the academic year at least one in each semester. These industrial visits will make the student to understand the working environment of the industries and also motivate them to secure the jobs in industry. The student will understand the application of what they are learning in the class room.
- : Frequent Workshops are conducted in the department for students to enhance the skills on the latest trends in technology like Arduino, Raspberry Pi, Internet of Things (IoT) etc. The Student is exposed to the usage of the latest software and hardware utilities.
- **Faculty Development Programs**: These are especially important in adapting faculty members to their changing roles in initiating and setting the directions for curricular changes and improve teaching skills. Based upon the change in the curriculum the department's plans for these programs well in advance. Total of 2 workshops per department are conducted in an academic year.
- **Interactive Teaching Learning**: This helps in clear learning objectives/outcomes. Interactive Teaching Learning is a methodology used to increase the effective teaching time by the faculty, in cooperation with the learning students. It also encourages the faculty and student to have a discussion over the topics so that the subject is understood clearly.
- **Independent learning:** The institute provides well stocked library which consists of bulk of books, journals, project reports and other teaching materials for the use of students and faculty. Students are encouraged to do online courses through NPTEL. Faculty and students has got the access to NPTEL video lectures for effective teaching learning practices.

File Description	Document
Link for Additional Information	[View Document](#)

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 47.88

2.3.2.1 Number of teachers using ICT

Response: 147

File Description	Document
List of teachers (using ICT for teaching)	View Document
Provide link for webpage describing the " LMS/ Academic management system"	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 3.64

2.3.3.1 Number of mentors

Response: 293

File Description	Document
Year wise list of number of students, full time teachers and students to mentor ratio	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

- Aurora's Engineering College has its own academic monitoring committee to monitor the quality of teaching and learning process. The continuous assessment of teaching- learning is carried out through visits of College Academic Committee. The Committee gives the guidelines to the faculty for improving the quality of teaching.
- Diversity of learning experience is created among students by the use of basic strategy of traditional teaching system like by using chalk and talk method and by new visual aids, interactive video lectures.
- Faculty members use power point presentations to make classroom teaching more effective. Audio Visual Aids are available in all the classrooms. The campus is Wi-Fi enabled and has internet connectivity 24 hrs.
- For making realization of students that learning is a sole responsibility of students various systems like unit test, assignment, seminars, project presentation etc.implemented
- National level workshops and seminars, exhibitions in various departments make the platform for the students enhance the extracurricular abilities like leadership skills, management skills etc. apart from traditionalteaching. So, the institution organizes various events like Paper presentation,

Project Exhibitions, Poster presentations, Workshops, and Competitions to increase the thinking, creativity and scientific attitude among thestudents.

- Students are encouraged to participate in the seminars, symposium and conferences conducted by other Institutions also. The Institute provides financial support to the students to attend such programmes to enhance their knowledgebase.
- Students are encouraged to go for various sponsored projects from well-known industries so that they get direct exposure to theindustry.
- The Institute has an R&D cell that motivates and guides students through the Research Committee to participate in National and International conferences. This encourages students to come up with ideas to have real time analysis of the problems in their area of study.
- Institution pays personal attention to the internship of students. The concerned faculty acts as a mentor as well as link with the industry for internship projects forstudents.
- Institution invites the experts from industry to deliver the lectures on various on-going issues and current happenings in the computer & corporate world to provide real time information and knowledge to thestudents.
- Our students are encouraged to make working models of the topics, they have understood and learnt by using the material available within their vicinity without spending much to display in any exhibition. This kind of support would certainly enhance their innovative skills and creative ideas.
- The Institute library has a collection of reference books, handbooks, journals and CD's of differentsubjects. The library has a collection of the NPTEL and SWAYAM and other Learning material which is used for better teaching.
- The faculty and students refer to online and printed journals to reach recent developments and advances in the subjectarea. The digital library is useful for the Faculty and students for e-learning, seminar and project work
- The Faculty registers for MOOC through NPTEL and SWAYAM. Apart from the core online tutorials, the faculty also registers for Multidisciplinary online tutorials.

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	[View Document](#)

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 1.17

2.4.2.1 Number of full time teachers with Ph.D. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	5	5	3	2

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	

2.4.3 Teaching experience of full time teachers in number of years

Response: 2.11

File Description	Document
List of Teachers including their PAN, designation,dept and experience details	

2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 0

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 1.83

2.4.5.1 Number of full time teachers from other states year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
13	8	2	9	0

28-02-2018 11:50:15

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

- The Institute adheres to the rules and regulations framed by the affiliated university
- **Theory Subject Evaluation:** Assignments for every unit will be given to the student at the start of the semester. The students have to submit these assignments at the end of every unit. Five Marks are allocated to each Assignment.
- At the end of the Semester, average of assignment marks over the number of units is taken.
- Two Internal Examinations are conducted for 20marks each, which in turn is split into 10 marks for Descriptive and 10 marks for objectives.
- At the end of the semester, the average of internal exams will be taken.
- **Laboratory Evaluation:** The Institute assess the performance of the students in every experiment by conducting Viva Voce for every experiment. Out of 25 internal marks, 15 marks are allocated for every experiment's daily evaluation. These marks are added up and averaged over the number of experiments.
- The Institute conducts 2 Lab internal examinations during the semester, each for 10 marks. The average of the internal marks is added to the marks obtained in the Experimental Evaluation.
- **Project Evaluation**: At the end of third year and during the Final Year of Engineering, The students have to go through the project phase. The Institute/ Department helps students to do their mini-project and major –project at the Institution. The faculty guides the students in achieving this.
- Project batches are formed with each batch consisting of three students. The Students are evaluated for 50 marks under Mini- Project and 200 marks for Major Project.All the batches have to undergo 3-4 project review in front of the Project Review Committee. Upon satisfactory completion of the review, the student will be permitted to do the Final Project
- Technical Seminars for 50marks and Comprehensive Viva Voce for 100 marks is conducted during the final semester.
- **Technical Seminar**: The students are asked to select any Technical Topic for seminar presentation, internal guide is allotted to each student and the documents are reviewed by the guide. Once the Documentation is approved the student has to present the seminar in front of the Committee constituting the Technical Seminar Review Committee.
- **Comprehensive Viva Voce**: 3 Phases of Comprehensive Viva Voce is conducted over the semester and the average marks are taken. Subject wise, the faculty proposes the questions for the comprehensive Viva Voce. These subjects will be grouped into 3 categories and 3 phases of CVV is conducted.

File Description	Document
Link for Additional Information	[View Document](#)

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

- There is complete transparency in the internal assessment. The criterion adopted is as directed by the JNT University, Hyderabad.
- All the students are familiar about the transparency in the internal assessment. At the beginning of the semester, faculty members inform the students about the various components in the assessment process during the semester.
- The internal assessment test schedules are prepared as per the university and communicated to the students well in advance. The examination branch conducts all the internal assessment tests as per the schedule.
- The examination branch circulates the invigilation duty chart for the faculty members and hall allotment for the students well in advance. The pattern, quality and correctness of the question papers prepared by the faculty members for the internal assessment tests are verified by Professor and the Head of the Department.
- To ensure proper conduct of formative tests, two invigilators are assigned to each hall. Evaluation is done by the course handling faculty members within three days from the date of examination. The answer scripts are distributed to the students for their verification.
- The corrected answer scripts (sample answer sheets) are verified by Head of the Department to ensure the standard evaluation process. The answer papers of the students are distributed to them and the satisfaction of the students regarding evaluation is ensured.
- The marks obtained by the students in internal assessment tests are displayed on the department notice board. The marks obtained by the students in internal assessment tests are uploaded periodically on the university web portal.
- The marks obtained by the students in internal assessment tests, as well as external examination are posted to their Parents through registered Post.
- Day to day performance of the students is assessed for every experiment which includes regularity, performance, viva and the promptness in submitting the record.
- For lab courses, the marks/grade scored by the student for each experiment is indicated in the observation / record. The independent learning, practical approach to the real-time applications is tested by viva voce for laboratory courses.
- For the quality of the projects, the evaluation is done by Project Review Committee (PRC) along with the project guides.
- The university examinations are conducted at a center other than this college.
- The end examination for the laboratory and projects are conducted with external examiner and internal examiner. The external examiner shall be appointed from colleges as decided by the University Examination Branch.

File Description	Document
Link for Additional Information	[View Document](#)

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

- University takes care of university evaluation grievances. The university settles the grievances using its own mechanism. Head of the Department takes care of grievances related to internal evaluation.
- The redressal of grievances regarding evaluation in both internal and university examinations is through the following process:
- At Institute level: The Theory and Laboratory Internal Examinations are conducted as per the academic calendar framed by the university.
- After the Internal Examinations are conducted, the faculty evaluates the answer scripts and distributes the same to the students for verification. If any discrepancies Viz wrong counting of marks, any answer not evaluated, and then the same will be brought to the notice of the concerned faculty for rectification and necessary corrections may be made.
- If student is not satisfied with the marks awarded even after modification by the faculty, student may present the same to the concerned HOD.
- All such representations are taken positively and reassessment may be made if necessary.
- The internal marks are displayed on department notice boards
- Upon the satisfactory completion of the verification of marks by the students, the Exam Branch will frame the marks in a prescribed format and circulates the same among students for verification. The student will counter sign at their marks which gives the final approval to upload the marks to the University.
- After the completion of Mid Examinations, the marks will be sent to the parents through Registered Post.

At university level: The students have to apply for recounting /revaluation in theory subjects within 15 days of declaration of results by paying the prescribed fee to the University. The University processes all such applications, considers for revaluation/recounting and declares the result.

File Description	Document
Link for Additional Information	[View Document](#)

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

- The Institute strictly adheres to the CIE that is prescribed by the affiliating university JNTUH. College Examination Officer (CEO) heads the examination cell of the college. Academic calendar is displayed on the notice board and on college website in the beginning of thesemester.
- Academic calendar includes circulars and co-circulars, activities such as schedule of preliminary exams, mid-term exams and end semester exams.
- As per the JNTUH regulations, the marks allotted to internal exams are 25 and to that of external exams are 75.
- The objective paper is for 10 marks and descriptive paper is for 10 marks, with duration of 1 hour 30 minutes (60 minutes for descriptive paper and 30 minutes for objective).

- Mid-term examination question papers of descriptive nature are verified for the standard and coverageby the Question paper Evaluation Committee
- Objective paper is set by the University for 20 bits for 10 marks of which 10 are multiple choice questions, and 10 are filling the blanks.
- First Mid-term exam is conducted for 2.5 units of syllabus and second midterm exam is conducted for remaining 2.5 units. 5 marks are allotted to assignments.
- The midterm examination marks are uploaded to university in the given time mentioned in the academic calendar.
- For oral and Practical evaluations, mock oral and practical examinations are conducted before university examinations which are helpful for improving student's results. If students scores less marks in unit tests and mock tests, then remedial classes are conducted. The institute follows the reforms in the assessment and evaluation pattern as per the guidelines given by the JNTUH.
- For LAB, there shall be a continuous evaluation during the semester for 25 sectional marks and 50 end examination marks. Out of the 25 marks for internal, day-to-day work in the laboratory shall be evaluated for 15 marks and internal examination for practical shall be evaluated for 10 marks conducted by the concerned laboratory faculty.
- The end examination shall be conducted with external examiner and laboratory teacher. The external examiner shall be appointed from colleges as decided by the University examination branch.
- Review seminars are conducted for two times for the continuous evaluation of project work.
- College uploads the internal marks of mini project, technical seminar, comprehensive viva and main project in the stipulated time given by University
- Timely submission of assignments is monitored. To encourage independent learning, few topics for presentation are given to final year students

File Description	Document
Link for Additional Information	[View Document](#)

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 on website and communicated to teachers and students

Response:

- The institutionhas well- defined learning outcomes stated in terms ofVision, Mission and Goals of the college

- Program outcomes in the name of the vision and mission statements are posted on the college website and are displayed prominently at various key places in the collegebuilding.
- Program specific outcomes are printed inDepartment Newsletters published quarterly and pasted in department class rooms and the department premises.
- Course outcomes are given by the affiliated university JNTUH in the student's hand book and are well discussed by department faculty in the classrooms and submitted as a part of the coursefile.
- Individual copies of the regulation book are distributed to all the students which contain details of

the course outcomes. Regulation books are also available in the library for student access.

- At the beginning of the academic year all the faculty members will prepare the course files and laboratory manuals
- The course file contains Department vision, mission, course syllabus, individual time table, program objectives, program outcomes, session plan, unit wise material, student attendance sheet, surveys/feedbacks collected from students.

○ The institutionmonitors and communicates the progress in the learning outcome of the students by thefollowing ways:

- Result analysis is prepared by immediately after the declaration of results by JNTUH. The report contains number of students appeared, passed, pass percentage section-wise etc. This report is compared with the reports of previous years to monitor the progress of department and corrective measures are taken if necessary.
- Result analysis report is shared among the faculty members as well as with the students and is displayed on the notice board
- Student Counsellor (Mentor) keeps close watch and track on the progress and performance of his mentees. He, after analyzing the report, in turn advises for better performance next time.
- The mentor keeps a record of the academic performance of each of his mentee and ensures that the mentee obtains signature of the parent after each assessment.
- All departments of the institution regularly communicate the marks obtained in the internal examination to thestudents and their parents. The progress of each student is informed to the parents time to time. Communicationtoparentsisthrough/e-mail/phone call/ letter or in combination of two or more ways, as and when required.
- In case of severity, parents are called to meet the Principal and HOD in person.

○

- Pedagogical methods start with the preparation of academic calendar in every department which is in line with the academic calendar given by the.
- Study of the course objectives and outcomes by the respectivefaculty
- Planning lecture delivery and its timelyexecution Preparation of the Students' Hand bookcontainingcourse modules,syllabus coverage, assignments,etc. by faculty at the start ofsemester.
- Students are provided with list of text books and reference books and questionbanks
- Weekly report as well as Monthly review by HOD about lectures conducted and syllabuscoverage in various subjects.
- Extra sessions are planned for the courses lagging behindschedule
- Guest lectures are arranged on advanced topics with prior intimation to students

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

- The institution adopts a mechanism to evaluate the learning outcomes of students.It follows the Outcome Based Education, which focuses on student-centric approach. Faculty members use innovative content delivery methods for facilitating the learningprocess

  - Subject knowledge
  -
  - Attitude to positive thinking
  - Body language and behaviour acceptable in urban society
- All the processes of the academic initiatives are developed and framed to know whether the identities as mentioned above have actually been instilled into the minds of students.

Ø   Program outcomes: The institution adopts both direct and indirect assessment for evaluating the program outcome as mentioned below:

Direct Assessment:

- Internal and external examinations in theory and practicalsessions.
-
- Oral Examinations, seminars andassignments.

Indirect Assessment:

- Course end survey

-
-

In the process of estimation of program outcomes following strategy is used

- The institution organises national conferences in different
- Students are encouraged to attend University Level Competitions and other National and State Level Project Competitions, Paper Presentations
- Training and Placement cell conducts aptitude test guidance, pre-placement guidance, expert

lecture talks and guidance for higherstudies.

- Students of all the departments are motivated to register in TASK (Telangana Academy for Skill and Knowledge) which conducts various programs for the overall development of the student.
- Soft skill training programs, industrial visits are conducted from time to time for the benefit of the student atlarge.
-

  ○ **Program specific outcomes**: All the departments of the institution have well-defined program specific objectives and outcomes. These outcomes are analyzed based on the feedback taken from different angles. Various departments of the institute follow below-given assessment method for evaluating the program specific outcomes of the student :

- Student in core subjects is the main indicator of the evaluation of outcome.
- The institution has MOUs with differentcompanies.
- Industry sponsored projects are also taken by the final yearstudents
- Mock interviews, aptitude tests are useful for student's placementprocess.
- Student's performance during their projects and internships is evaluated by a team of faculties and it works as an indicator for upcoming batches of students.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.6.3 Average pass percentage of Students

Response: 59.73

2.6.3.1 Total number of final year students who passed the university examination

Response: 175

2.6.3.2 Total number of final year students who appeared for the examination

Response: 293

File Description	Document
Institutional data in prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Database of all currently enrolled students	<u>View Document</u>

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years

Response: 179.48

3.1.1.1 Total Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
11.9	67	53.29	43.54	3.75

File Description	Document
List of project and grant details	[View Document](#)

3.1.2 Average number of research projects per teacher funded by government and non government agencies during the last five years

Response: 0.16

3.1.2.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 130

File Description	Document
List of research projects and funding details	[View Document](#)
Funding agency website URL	[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

The institution has created an ecosystem for innovation including incubation center and other initiatives for creation and transfer of knowledge. The students and faculty members are empowered to take up research

activities utilizing the existing facilities. The college has a Research and Development Cell to monitor and address the issues of research being headed by Professor Dr. Shubro,

Functions of the Cell:

·Creating research culture among faculty members and students.

·Motivating to undertake minor and major research projects from various funding agencies.

· Identification and assisting for finance from Management as well as funding agencies like DRDO, DRDL, R&D and AICTE.

·Guidance for publication of papers/articles in reputed journals.

Entrepreneurship Cell: This cell is headed by Dr. M.C. Ajay Kumar. It helps student community to conduct research work and survey for identifying entrepreneurial opportunities.

Functions:

· We invite eminent personalities from small and large industries and organize seminars and workshops with them.

· We visit nearby villages and promote entrepreneurial education to the backward students.

Moto of the Cell: To create employment opportunities to unemployed youth, increase individual savings which indeed will increase the per capita income, standard of living and thus revenue to the government.

The institution has entrepreneurship cell which organizes seminars, workshops and guest lecturers to motivate students to become entrepreneurs. The institution organizes alumni interactions to motivate and encourage students for entrepreneurship.

1) The institution organizes industrial visits and interactive talks delivered by industrial executives to instill entrepreneurship amongst students.

The main policy of the institution is to promote research culture. It is to encourage the faculty members and students to involve themselves in various researches, on innovative practice leading to research publication, product realization for societal use. The Management extends all possible support to promote research culture in the institution. Registration fee is sponsored by the institution for presenting papers in the international/national conferences.

The institution has a research committee namely research and development cell to promote research activities. The composition of the research and development cell is as shown in Table

Research and development cell Structure

NAME	DESIGNATION	POSITION	
Dr. ShubroChakrabartty	Asst. Prof	Head (R&D)	
Dr. D. Ravichandran	Asst. Prof	Head (Faculty Developme	

K. Vidya	HoD – CSE	Head (Student Developme	
Dr. M.C. Ajay Kumar	HoD – H&S	Member	
Dr.N. Rakesh Chandra	Asst. Prof	Member	
Dr. B. LaxmanaSwamy	HoD – ME	Member	
Dr. T. M. Usha	Asst. Prof	Member	
ArvindKatyayn	Asst. Prof	Member	
T. DivyaBhavana	Asst. Prof	Member	
G Shiva Shankar	Asst. Prof	Member	
V Poornachander Reddy	Asst. Prof	Member	
G. V. Rajasekhar	Asst. Prof	Member	
K. Lakhpathi	Asst. Prof	Member	

Recommendations made by the committee for implementation:

1) To identify the major thrust areas of research.

2) To initiate multidisciplinary research programs with special focal themes.

3) To evaluate the scientific excellence of projects before being further recommended for submission to funding agencies.

4) To motivate faculty to pursue Ph.D.

5) To inculcate research attitude among the students.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 92

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
8	7	23	37	17

File Description	Document
List of workshops/seminars during the last 5 years	[View Document](#)

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
List of Awardees and Award details	View Document

3.3.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 0.14

3.3.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
29	32	19	41	68

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document

3.3.4 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 0.12

3.3.4.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
29	32	17	32	59

File Description	Document
List books and chapters in edited volumes / books published	[View Document](#)

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

The college has shown its equal interest as an institutional social responsibility, which is quite evident in supporting all social related problems in and outside the college surrounding regions. The college has also adopted small villages for their holistic developments.

The colleges have also established several clubs and centers and have association with following for various activities,

Nature Club

Literacy Club

NSS Wing

Red Cross society

Society for Thalaseema

Lions Club of Bhongir.

Women Empowerment Cell

Women Grievance Redressal Cell

The NSS wing of the college is sanctioned by Jawaharlal Nehru Technological University – Hyderabad. Funds are released by the University Periodically for conducting various activities on social cause. One of the faculty members is designated as coordinator. Yearly accounts are submitted to the university along

with the utilization certificate.

- The institute encourages the students and staff to participate in blood donation camps.
- The students of the college are actively involved in "Clean and Green Program" , "SwachBharath" and other programs organized by the Government of India and Telangana.
- The students and staff actively take part in tree plantation programs in and outside the college.
- The students and staff alsoinvolve themselves and contribute during calamities such as floods, earthquakes, cyclones etc in and outside the state.
- The students and staff also participates in organizing programs to bring awareness among the public in neighborhood areas on several social issues like education, AIDS, spreading of diseases, environment protection, road safety, eradication of illiteracy etc.
- The college also conducts several programs for various schools such as science fair exhibition, basic trainingon computer education.
- Every year the college in association with the Bhongir town police conducts seminars and rallies to bring awareness In public about road safety, drunk n drive, anti-ragging.

The student community is being helped by implementing the government reservation schemes and offering good scholarships for both merit and economic basis. The major strength of the college is its ability to ensure holistic development of students to make them responsible citizens by teaching the moral values.

The college management always motivates the students and staffs social participation and also drives to achieve its goal of providing higher technical education to create equitable society with ethical values. To provide quality based education to the students by inculcating moral values, scientific temper and employing state of art technologies.

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 23

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
9	4	4	4	2

File Description	Document
Number of awards for extension activities in last 5 years	[View Document](#)

3.4.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., during the

last five years

Response: 102

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

2016-17	2015-16	2014-15	2013-14	2012-13
8	8	61	17	8

File Description	Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	[View Document](#)

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 0.42

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
10	4	10	5	4

File Description	Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	[View Document](#)

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 193

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
45	61	3	64	20

File Description	Document
Number of Collaborative activities for research, faculty etc.	View Document

3.5.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 25

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
7	5	3	2	8

File Description	Document
Details of functional MoUs with institutions of national, international importance,other universities etc. during the last five years	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

Physical Facilities available at Aurora's Engineering College

1. The Aurora campus is divided into A, B & C blocks which has well defined Administrative, Academic, Sports and Living areas
2. Every department in AEC has dedicated Laboratories, Class rooms, Faculty rooms, Drawing rooms, department libraries and rest rooms for ladies & Gents.
3. Student Amenities like primary health centre , Library, Canteen, Stationary store and other essential facilities are provided
4. Well furnished staff rooms for each department and a health room are provided for the faculty.

Administration Section:

College has well established administrative section where all administrative related works are done centrally.

Classrooms:

- The college has adequate facilities for teaching-learning process. The college has spacious rooms equipped with all teaching aids like LCD, OHPs, internet with wifi facility, Ceramic Boards and Interactive Boards etc. to facilitate the faculty use of ICT enabled teaching resources

Laboratories

- All the labs are housed in the area of minimum of 66 sq-mt to meet the norms and well-equipped with all the experimental set up.

Computing facilities

- Each department has adequate number of computers with latest configuration to facilitate students and faculty to update knowledge and do research.
- The departments are facilitated with printers / copiers. Intranet facility is available for the process of admission, examination work, Biometric attendance, for teaching and non-teaching staff.
- Separate labs with computers are provided in each department to do academic project and research work.

Seminar halls

- The college has seminar halls for each department with 150 to 200 seating capacity and they are equipped with required audio / video systems.
- An Indoor Auditorium with 500 seating capacity is used for conducting seminars, workshops, inter-collegiate events, fine-arts, fests, etc.

Drinking Water Facility

The college has satisfactory water facility. Water plant is established on the top of Block-A to provide pure drinking water to all the students and staff. Besides, the college is giving due attention to supply clean drinking water to students by installing a number of refrigerators at various locations in the college.

CANTEEN

AEC has good canteen facility in hygienic atmosphere with adequate seating capacity to cater the needs of the students and faculty.

Transport

The college has 15 buses available for students and faculty to commute from Hyderabad and different places around Bhongir to college.

Power Supply

Generators with power capacity of 250 KVA and 60 KVA, Invertors, UPS, Solar street lights and lamps ensure the uninterrupted power supply on the campus during power failure.

1	No. of class rooms	47
2	No. of tutorials	11
3	No .of Seminar halls	5
4	No. of labs	65
5	No. of drawing halls	2
6	No. of workshops	3
7	No. of ICT rooms	1
8	No. of LCD'S	52
9	No. of Media centres	1
10	No. of OHP'S	18
11	No. of Generators	2
12	No. of Auditoriums	1

13	No. of libraries	1	

File Description	Document
Link for Additional Information	[View Document](#)

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor) gymnasium, yoga centre etc. and cultural activities

Response:

Sports

- The Aurora's Engineering College has good facilities for Sports. One period is allotted for sports is embedded in time table to ensure indoor and outdoor sports activities.
- The Physical Education Department maintains the grounds for both indoor and outdoor games. It has a well maintained ground for various outdoor games like Kabaddi, Volleyball, Ball Badminton, Football, Basketball, Throw ball, Shuttle Badminton and Cricket.
- Qualified Physical Director is appointed to look after the games and sports activities in the campus. College teams take part in University Zonal level competitions and other intercollegiate competitions.
- Competitions are conducted at inter-departmental level, inter-college level and state level. The winners and participants are awarded in KHEL, annual sports day celebrations.

Cultural activities

- Separate calendar is prepared for the year for co-curricular and extra-curricular activities including sports & cultural events.
- The Cultural club. Sports club of the college that is headed by one of the faculty members submit a plan of action for organizing sports/cultural activities throughout the year.

- The institution has formed the cultural and literary clubs in order to provide a platform for the students to bring out their latent artistic talents.
- The college has separate committees for organizing various cultural activities like Cultural day, Pallavi, Traditional day, Sampradaya, etc. to develop a sense of respect towards the tradition and culture among the students community.

Extra circular activities

· Co-Curricular activities are conducted under the SAC (Student Activity Committee) and departmental professional societies which are held in various seminar halls provided inside the campus.

- The students are encouraged to participate in various events organized by various engineering colleges throughout the state. Transport facilities are provided for students to participate in inter college Technical, Cultural and Sports events.

- In addition to the above, SAC (Student Activity Center) provides students with facilities to pursue different activities like music, drama, photography and literary activities. There are different societies to support these activities. The equipment to support these activities includes musical instruments, audio system, digital camera, handy cam, etc.
- Yoga workshop is organized for students and faculty by Trained Yoga Instructors, for physical and psychological well being.

INDOOR GAMES:

S. No	Name of the game	Quantity
1	Table tennis	5
2	Caroms	10
3	Chess	20

OUTDOOR GAMES:

S.NO	NAME OF THE SPORT	Ground(s) Available
1	Cricket Ground	1
2	Throw ball court	2
3	Football Ground	1
4	Volley ball Ground	2
5	Short put	2
6	Kabaddi Court	2
7	Kho-kho Ground	2
8.	Basket Ball Court	2
9.	Tennis Ground	2
10.	Badminton court	1
11.	Tracks for Run	100m,200m

S.NO	NAME OF THE SPORT	Items Available
1	Cricket	2 kits
2	Throw balls	20
3	Footballs	10
4	Volley balls	10
5	Short put	5
8.	Basket Balls	10
9.	Tennis	5 Kits
10.	Badminton	1

File Description	Document
Link for Additional Information	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 52

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	[View Document](#)
Link for additional information which is optional	[View Document](#)

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 13.87

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
68.2	61.91	70.7	98.49	89.31

File Description	Document
Details of budget allocation, excluding salary during the last five years	[View Document]()
Audited utilization statements	[View Document]()

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

The college has 675 Sq.m library with more than 42912 volumes, 5885 tittles.and 53 print journals To improve the facilities the following initiatives are taken by the college.

- Good ambience with excellent ventilation and lighting
- Reading space to accommodate more number of students
- Dedicated Digital Library facility
- Ample space to accommodate more books, Journals, Titles and Volumes.
- The Advisory Committee of the library is constituted with the Principal as its Chairman, Librarian and three faculty members from Engineering and Humanities departments as members.
- Allocation of funds to departments for the purchase of books, journals and periodicals, improvement of library service and infrastructure facilities, yearly addition of books to the stock, book bank facility for lending books tostudents
- Access to library is easy. The students are supposed to show their library cards, sign on the visiting register and enter the library. Books are placed on open racks for free access. The books are catalogued author wise and Title-wise in the library for easy location.
- Exhibition of new arrivals for the staff and students in the beginning of every academic year; Devising strategies and planning Orientation programs to improve reading habits.
- Students can read the book in the reading room or get it issued to study at home. There are supervisory who take care of the security of books and other reading material making sure that the books are placed appropriately.
- The library collection includes new and latest books, reference books, dictionaries, encyclopedia, newspapers, periodicals, research journals, psychological abstracts, dissertation abstracts and literary books which cater to the needs of the users quite satisfactorily.

- On receiving library grant sanctioned by the Academic and Planning Board, Chairpersons along with other teachers draw up a list of books and journals required by respective Department and send it to librarian. Before the acquisition list is finalized it has to be recommended by the Departmental Council that has all the teachers of the various departments as members. The Librarian in turn procures the books listed and gets them placed in Central or Departmental library as the case may be. The research journals are also purchased on the recommendation of respective Department Councils. The new titles and journals are displayed so as to make the students aware of new arrivals.

- 3. 12 version Koha software is usedin our Library

1. It is the first open source library management system

2. It is used for both learning purposes and implementation in a real

library environment

3. Bundled with Linux operating system

4. Suitable for trial without installing inside the hard disk of the

computer

5. User friendly installation

6. No need for high end Linux expertise for maintenance

7. Customized version of Koha is ready to use

8. Availability of third party applications

9. Suitable for offline installation and no need of internet connection

for installation

Name of the ILMS Software	Nature of automation	Version	
KOHA	FULLY	3.1.2	

File Description	Document
Link for Additional Information	[View Document](#)

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Rare books: Our college library has rich collection of rare books of 170 books.

Branch	No of books
Civil	35
CSE	32
ECE	22
EEE	16
MBA	23
ME	22
H&S	20

 Manuscript:

Our college faculty prepared course material of each subject as per B.Tech curriculum. These are 190 course materials are written by hand.

Branch	No of materials
EEE	36
ECE	36
ME	36
CSE	36
CVIL	36
1st year	10

Special reports

Our college has published newsletters for every six months . The news letter covers the college events and faculty achievements and students innovative ideas and also published year hand books

1. Year hand books
2. Newsletters-

Other knowledge resource

1.   Competitive books   250

2.   Back volumes   1163

3. National Digital library facility- More than 7 lakhs books and 3 lakhs authors Authors in 70 languages More than 3 lakhs Articles by more than 2 lakhs authors from More than 3 lakhs 9500 thesis by researchers from different Indian institutes

4. DELNET - Developing Library Network

Our college as a member in developing library network. This network provides following facilities

Union Catalogue of Books - CCF	**2,51,90,300**
Union List of Current Periodicals	**37,847**
Union Catalogue of Periodicals	**20,235**
Database of Periodical Articles	**9,84,809**
CD-ROM Database	**58,831**
Union List of Video Recordings	**6,000**
Union List of Sound Recordings	**1,025**
Database of Theses and Dissertations	**1,02,096**
Database of E-books	**1613**

5. NPTEL Content Branch wise

Sno	No of CDs
EEE	20
ECE	20
ME	22
CSE	19

6. Book Accompayining CDs Branch wise

Sno	No of CDs
EEE	53
ECE	255
ME	48
CSE	958
CIVIL	9
H&S	259

1582

7. Project reports Branch wise

Sno	Project report
EEE	183
ECE	610
ME	360
CSE	444
CSIT	147
MBA	273
MTECH	211
Total	2228

8. E- Handbooks branch wise

S.no	Hand books
EEE	14
ECE	11
ME	7
CSE	14
Gen	2

9. Newsletters - Our College published newsletters for every three months. It covers college events, faculty achievements and students innovative ideas and cultural programs.

10. Question papers – our library have old question papers from establishing time. We have number of spiral binding volumes and also supplied soft copy to students.

File Description	Document
Link for Additional Information	View Document

4.2.3 Does the institution have the following:

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Any additional information	View Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc.	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 3.78

4.2.4.1 Annual expenditure for purchase of books and journals year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
3.58	3.42	4.0	4.08	3.83

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	[View Document](#)
Audited statements of accounts	[View Document](#)

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Details of remote access to e-resources of the library	[View Document](#)

4.2.6 Percentage per day usage of library by teachers and students

Response: 23.82

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 327

File Description	Document
Details of library usage by teachers and students	[View Document](#)
Any additional information	[View Document](#)

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

- **IT Service Management**
    - We provide user based IT Services like single sign-on, email, web pages, storage, network

(Wired & Wi-Fi), software, hardware (PCs, Laptops, Printers, etc.,), intranet and social media access.
  - 600 Dedicated Campus PCs maintenance and printer maintenance.
  - Dedicated team of 02 computer service personnel

- **Network Security**
  - Aurora provides Wi-Fi and internet access as per acceptable IT usage policy. Access to sites promoting plagiarism is blocked as per the firewall policy
  - Network protection and content filtering to unauthorized content is realized using.
    - Campus wide Symantec Endpoint Protection Antivirus
    - Centralized log management for switches
    - Firewall log processing through FortiAnalyser

- **Risk Management**

Scheduled Back-up of data using in a separate HARD DISK-1TB, storing of original software CDs in a fireproof cabinet and to mitigate denial of service attacks are implemented as per the risk management policy of the college.

- **Software Asset Management**
  - All software's used in the college are licenced /open source.

- **Open Source Resources**
  - Open Source alternatives are considered for academic teaching.
- **Wi-Fi Facility**
  - AEC Provides Good Wi-Fi facility with minimum 100 Mbps speed to students and staff by providing adequate number of routers at suitable locations in the campus. This facilitates paperless the academic and administrative environment in the campus to maximum extent.

IT SERVICES	Year of Updation	NATURE OF UPDATION
ANTI VIRUS KASPERSKY TOTAL SECURITY	2017	2016-2017
HARD DISK	2007	40GB TO 80GB
RAM	2007	256MB TO 512MB
HARD DISK	2011	GB TO 160G(ONLY 66)
RAM	2011	512MB TO 1GB
HARD DISK	2017	80GB TO 160GB(160)
RAM	2017	512MB TO 1GB (155)
PROCESSOR	2008	Pentium IV to Dual Core
PROCESSOR	2011	Dual core to Core 2 Dual
Laptops		

printers	2004	DOT MATRIX TO HP LASER JET 1015
Printer	2006	Hp laser jet 1015 to hp laser jet 1020
Printer	2011	Cannon LBP 2900
Printer	2015	Ricoh sp212snw
Printer	2015	Ricoh sp 111
Printer	2013	Hp laserjet 1136 all in one
Wifi	2015	Ubiquity Unifi
Wifi	2017	Ubiquity Unifi to Jio wireless network
Internet	2013	D-voice 10 Mbps to 100Mbps
Internet	2017	Renewal 100Mbps
Leased internet	2012	Bsnl broadband(local) to NME connection(speed 10Mbps)
Switches	2008	16 port switches to 24 Port switches
Operating System	2017	Windows Xp to Ubuntu16.4.1
Library Software	2012	Delnet to Koha 3.12.09.000
English lab	2017	Based on r13 ELCS & AECS to Based on ELCS & ACS
Turbo c++/gcc	2012	3.0 to 3.1
Turbo c++/gcc	2017	Turbo c++ 3.2 to gcc 4.2
Weka	2016	3.7.13 to 3.8.1
Weka	2017	3.8.1 to 3.9
Xampp	2017	7.1.11
JDK	2014-2017	JDK 1.7 & 1.8
JDK	2017	1.8.0_151
LINUX	2017	Ubuntu 14.04 TO 16.04
LINUX	2014	Redhat 6.5 to 6.6
MY SQL	2012	Mysql server 5.0
MY SQL	2017	My sql server 5.7.20
PSPICE	2017	8.0 to 9.1.0.1
RATIONAL ROSE	2017	Windows version 7.0.0.0 to Linux version 7.0.0.4
LIBRE OFFICE,LATEX		
SELENIUM	2016	3.0.4 to 3.0.5
selenium	2017	3.0.5 to 3.8
BUGZILLA	2016	5.0.2 TO 5.1.1

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.3.2 Student - Computer ratio	
Response: 1.46	
File Description	**Document**
Student - Computer ratio	

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)
<5 MBPS

5-20 MBPS

20-35 MBPS

35-50 MBPS

Response: >=50 MBPS

File Description	**Document**
Details of available bandwidth of internet connection in the Institution	
Any additional information	

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: Yes

File Description	**Document**
Facilities for e-content development such as Media Centre, Recording facility,LCS	
Link to photographs	

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 86.13

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

2016-17	2015-16	2014-15	2013-14	2012-13
880.84	816.06	912.56	311.95	284.9

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	[View Document](#)
Audited statements of accounts.	[View Document](#)

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

- The classrooms and blackboards are cleaned and washed every day after college working hours. Corridors are cleaned thrice a day by using mops and vacuum cleaners.
- Books are placed securely in rows in all shelves of almarahs in the college library. After college hours books referred by visitors and left on the tables are replaced in their appropriate places. Torn and dog-eared books are replaced once every fortnight. Books with loose sheets are collectively bounded once every semester.
- Every laboratory premises is maintained by one lab assistant and one lab technician. After the lab hours all the consumable items are kept in the almarahs by the lab assistant. Any non-functional equipment is repaired and put in order by lab technician.New equipment is purchased as per the requirement projected by laboratory in-charge and is tested for its satisfactory performance by the lab assistant and test report is submitted to purchases cell. All the equipment is periodically tested by the lab technician.
- Technical staff is appointed for maintenance and repair works of lights, fans and speakers. Computers, laptops, LCD and intercom are maintained and repaired by the service personnel on the basis of annual maintenance contract. UPS, printers, air conditioners and generators on maintained on per call basis.
- Sports room is headed by Physical Director.New sports equipment required for outdoor and indoor games are purchased periodically and the condemned material is disposed once every semester.
- College electrical maintenance department ensures power supply on campus during college working hours. In case of any failure, supply is obtained from power generator.
- College runs 20 deluxe buses from different parts to college campus inclusive of interior places. All the buses are monitored by transport in-charge. Qualified and senior drivers are employed. Regular maintenance is done in compliance with rules and regulations of TSRTA (Telangana State Road Transport Authority).
- Any complaints, grievances and suggestions raised by any person are first logged into a complaints log register and each complaint is addressed by the person concerned by the Principal.
- Maintenance department headed by Deputy Executive Engineer with Pump Operators, Work Inspectors, Plumbertakes care of day-to-day maintenance
- The ambience of the campus buildings is improved by providing gardening. Pruning, shaping etc., are done by separately identified staff. Regular watering of plants is maintainedto ensure clean

hygiene on campus
- Overhead drinking water tanks on all the buildings in the campus are cleaned and a record is maintained.In addition colleges have 10 water coolers and are kept accessible to all staff and students at various locations.
- CCTV surveillance system is maintained to monitor functioning of the staff as well as thefts and other issues.Cameras are positioned at vulnerable locations.
- Fire extinguishers are kept at important places. They are maintained and gas filling is done periodically.

Examination section has been provided with a special purpose sophisticated copiers. Computers are maintained by an in-house technician.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 55.3

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
434	802	1077	1236	1325

File Description	Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 29.65

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
629	658	508	247	114

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

1. **For competitive examinations**
2. **Career counselling**

      3. **Soft skill development**
      4. **Remedial coaching**
      5. **Language lab**
      6. **Bridge courses**
      7. **Yoga and meditation**
      8. **Personal Counselling**

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	[View Document]()
Link to Institutional website	[View Document]()

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 19.39

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

2016-17	2015-16	2014-15	2013-14	2012-13
293	343	386	289	241

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	[View Document]()

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 26.22

5.1.5.1 Number of students attending VET year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
267	493	560	423	438

File Description	Document
Details of the students benifitted by VET	[View Document](#)

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	[View Document](#)
Details of student grievances including sexual harassment and ragging cases	[View Document](#)

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 37.04

5.2.1.1 Number of outgoing students placed year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
175	199	218	160	138

File Description	Document
Details of student placement during the last five years	[View Document](#)

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 10.24

5.2.2.1 Number of outgoing students progressing to higher education

Response: 30

File Description	Document
Details of student progression to higher education	[View Document](#)

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: NET/SLET/GATE/ GMAT/CAT, GRE/ TOFEL/ Civil Services/State government examinations)

Response: 1.18

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOFEL/Civil Services/State government examinations) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
13	13	42	28	3

5.2.3.2 Number of students who have appeared for the exams year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1184	1317	1811	2060	2228

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years	[View Document](#)

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) during the last five years.

Response: 11

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

national/international level (award for a team event should be counted as one) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	7	1	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	<u>View Document</u>

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

Aurora's Engineering College has been known for vibrant student community right from its inception. They have been in the forefront of all the co-curricular and extra-curricular activities. It is evident from the number of committees, clubs and centers that take care of a variety of activities aimed at the overall development of the students. Each committee is headed by one faculty and one student coordinators and five members from students.   These activities help the students to fine-tune their skills by exposing them to various skills like soft skills, decision making skills, problem solving skills, interpersonal skills, leadership skills, etc.

The Students Activity Committee (SAC) of Aurora's Engineering College is a democratically elected representation of the student community. The purpose of the SAC is to serve as a legislative body, framing policies and decisions for the benefit of the student community. It shall serve as a channel through which the student community can voice their opinions and concerns. The SAC shall continuously strive to identify student-related issues and help resolve them, thus building a healthy environment in the institute.

As the educational system is faculty and student centric. It is a duty of every institute to ensure appropriate standards for Teaching and Learning Process. As a part of this process the students are motivated to match their standards to the industrial and societal needs. While the institute puts the students to higher degree of learning through this approach of beyond the text book and the students are guided by providing full freedom to develop the capabilities and qualities in handling several activities like ISTE, IETE, CSI, etc.

Each committee is aimed at catering to the needs of the student community. The Technical club helps the students in enhancing the technical skills, the Literary club helps in building interpersonal skills is aimed at enhancing the technical skills, the nature club makes the students aware of various environmental issues. The festivity committee celebrates various national and international events and the festivity committee celebrates festivals of all the communities thus enriching the students with all the inputs that lead to all-round development.

Objectives of SAC

- To foster, develop and increase students' social awareness
- To promote interaction and knowledge sharing.
- To nurture the aptitude of the student community for holistic development
- To promote and develop organizational ability
- To function as the office for all election/nominations of students for SAC activities
- To offer desk support for all student activities

Details of various academic and administrative bodies headed by student representatives

- Class Committee
- Professional student chapters
- Technical Club
- Literary Club
- Photography Club
- Arts Club
- Nature Club
- Professional Club
- Campus Monitoring Committee
- Sports committee
- Mentoring Cell
- Publication Cell
- Cultural committee
- R & D Committee

File Description	Document
Link for Additional Information	[View Document]

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 19.4

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
20	20	19	19	19

File Description	Document
Number of sports and cultural activities / competitions organised per year	View Document
Any additional information	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

Aurora's Engineering College has Alumni Association that creates and maintains a life-long connection between the Institute and its alumni, who number more than 20,000. In collaboration with an extremely dedicated volunteer board of members, the Alumni Association works to connect alumni, support students and build an unforgettable Institute experience through a diversity of events. The mission of the Association is to foster strong bonds between alumni, students and the Institute, to keep alumni informed, and create a network enabling them to remain engaged with their alma mater and help shape its future through the Association's programmes and services.

The institution networks and collaborates with the alumni by arranging alumni meets every year. All departments have an alumni faculty coordinator who keeps record of the alumni and communicates through e-mail. Alumni meet is conducted every year and get their updates about future of students in the job market. The institution implements most of the suggestions given by them in the interest of the students. Many of the former faculty members of the institution, visit the campus periodically, share the experience and provide valuable suggestions and help in organizing FDPs, and guest lectures, etc.

In fact Aurora group of engineering colleges have started the tradition of celebrating Abhideya, the placement day for the last three years. The aim of this day is to provide a platform for the former students who are placed at various parts of the world in various capacities to come together and share their inputs for the budding engineers. The Chief Executive Officers of various companies are invited to this program to make the students aware of the demands of the workplace. Many CEOs have acclaimed the efforts of Aurora management in helping the students getting placed in various prestigious organizations throughout the world.

Objectives

- Ensuring and facilitating the continual bonding of our alumni is one of the main objectives of our Alumni Association. It brings together a wealth of talented and capable professionals who share their expertise and experience, and brainstorm on the prospective avenues.
- To provide good interaction between the former students and the college through periodical meetings, project consultancy, placement activities and guest lectures / seminar

thereby making the alumni to be a part of developmental activities, taking place in the college.

- To maintain a continuing and life long relationship among the students, faculty and Alma matter.
- To strengthen the cooperation and coordination with industries.
- To enhance placement opportunities for students.
- To create opportunities for training and projects apart from guest lectures, industrial visits and seminars.
- To arrange Alumni Lectures and Guest Appearances for various events like quiz, etc.
- To organize frequent alumni meets to develop the bonding between Alumni and the institution every year.

Activities

- Regular Alumni meets
- Career Guidance Program from Placement Cell for unplaced students
- Technical Seminars by Alumni in reputed organizations
- Website updating to keep alumni informed about happenings in the college
- Compiled Feedback analysis of Alumni Members
- Annual Placement day

File Description	Document
Link for Additional Information	[View Document](#)

5.4.2 Alumni contribution during the last five years

<1 Lakh

1 Lakh - 3 Lakhs

3 Lakhs - 4 Lakhs

4 Lakhs - 5 Lakhs

Response: ? 5 Lakhs

File Description	Document
Alumni association audited statements	[View Document](#)

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 5

5.4.3.1 Number of Alumni Association /Chapters meetings held year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	1	1

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	[View Document]
Report of the event	[View Document]

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

Institute Vision

'To be synonymous with learning and be a centre of excellence in technical education that lays emphasis on Research, Development, and Innovation, for providing eminent professionals to society.'

Institute Mission

'To achieve academic excellence and develop dynamically socially conscious technical leaders through career oriented courses with student centric learning process.'

Description:

The management of the institution provides direction and guidance to the institution in implementing the institution policy towards attainment of its vision and mission and the plans for the development of the institution. The management conducts periodic meetings to review the development of the institution.

- The institute aims to be synonymous with learning in all its activities. The governance of the institute is essentially participative designed to promote excellence in all activities. At the core is the involvement of faculty in all academic and supporting activities.
- The management entrusts the faculty to come out with curriculum delivery process including Session Plans, Time Tables, Guest Lectures, Seminars, Adjunct Courses and a host of other academic activities, conforming broadly to the guidelines given by the governing body. This freedom enables the teaching community to enrich curricular activities.
- The process of award and reward are based on performance of the faculty, encouraging attainment of better standards.The promotion policy involves recognition, reward and encouragement for contribution to R&D and obtaining higher professional qualifications, reinforcing this aspect of the vision.
- The strong bond created between students and teachers by involving faculty in student development ensures professional development of students and progress in attainment of professional competence by students. In this endeavour, the skill sets and the knowledge required for the students to stand on their own legs after completion of degree is enabled.
- The Institution aims to develop liaison with Industry, Research and Development organizations and reputed Academic Institutions. Students who excel in academics Viz: Internal and Semester Examinations and other examinations are also awarded. This step creates healthy competition among the students and encourages them to excel.

- Teachers are given wide participation in various academic and administrative committees which are controlling bodies of various activities of the institute steering its course.
- The perspective plan of the institute is based on the SWOC analysis as perceived by the stake holders including faculty members in the committee and vetted by seniors. Faculty are encouraged to generate innovative suggestions through brain storming sessions for the development of the institute.

Perspective plans are reviewed thoroughly and amended in the light of latest actual attainments. Interaction of faculty with external experts aids the process of realistic plan making and review. Thus, the freedom and encouragement from the management as enshrined in the governing manuals reinforces the attainment of vision and mission of the institute.

File Description	Document
Link for Additional Information	[View Document](#)

6.1.2 The institution practices decentralization and participative management

Response:

- The institution also delegated authority to the administrative unit of the institution. The institution promotes the culture of participative management. The participative management includes Principal, HoD's, Faculty, Non-Teaching Staff and Students.
- At each level, there is an active participation in planning/implementation. The faculty is actively involved in planning and implementing the academic calendar and teaching learning process. The co-curricular and extracurricular activities are planned and organized by the faculty, non-teaching staff and students.
- Heads of the departments and deans are involved in development, procurement, selection of junior faculty, program and activities, starting of new programs, etc. The managing committee of the institution has representatives of faculties.
- The Principal of the institution is a member secretary of the Governing Body. The Governing Body gives suggestions and monitors the procurement, introduction of new programs and welfare activities.

Case Study: Planning of Professional Events by the Departments

In the past, the annual technical events were planned by the college in a centralized way with the committees formed at the college level steering the conduct of such events including that of each department, the event being 'Sangama'. It was felt by the faculty of different departments that the nature of events organized by each department is unique and therefore, a common central framework may not work for all of them equally effectively. Therefore a representation was made to the college academic committee that while the function "Sangama' would serve the conduct of students technical event in common to some extent, another event 'Samshodhana' be started, probably simultaneously in the college, but organized independently by each department with independent choice of events, modes of participation, scale of the event etc.

The college management took a very supportive view of this proposal and granted the departments the requisite autonomy to conduct the event 'Samshodhana' independently. Each department would have its own Title of the event as well.

The freedom granted to each department can be summarized as follows.

1. To plan the scale of the event and budget for its conduct
2. To plan the ways of raising financial support from various agencies, viz. Permission for printing Souvenir, advertisements in the souvenir, permission to open stalls in the college during the event etc.
3. Plan the technical events suitable to the department concerned which could include but not limited to-

- Technical quiz
- Technical paper presentation
- Poster session
- Project demonstration
- Model competition events
- Quick assembly /disassembly competition event
- Technical crossword
- JAM competition

1. The conduct of the event would be completely overseen by the staff / students of the department. This would also eliminate the possible differences sometimes observed between departments.
2. After successful implementation of this scheme since the year 2014, there is much increased level of satisfaction among staff and students of all departments. Each department feels satisfied with the freedom given to conduct events most suitable to the department.

File Description	Document
Link for Additional Information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

Improvement of quality of student projects:

Student project is an important part of curriculum at both UG / PG levels. A need exists for enhancing the quality of student projects so that their domain knowledge and employability both improve as a result of a project work as judged by publishing based on the project work and placements achieved.

The project quality improvement plan involved the following steps:

1. **Creation of project bank**

Project bank is the collection of projects which are beneficial for industries and the society, as part of their studies; our students get to work on industry oriented projects with the potential for real world impact. The organization gets the opportunity to benefit from our student's knowledge, skills and creativity while gaining valuable insights into their specific project area.

1. **Giving Student opportunity to choose project of their liking/in turn with their aptitude**

After collection of all the projects, students have given opportunity to select one project based on their knowledge, skills and creativity. For allotting the projects to the students we also conduct viva-voce in order to identify the skill set of the particular student.

1. **Orientation training**

Once student select their project, they must be prepared for doing it, which is when orientation comes in. Orientation implies providing students with basic information about the project. Orientation and training program are important components in the processes of developing skills of students.

1. **General Training on modern methods like MAT-LAB, EMBEDDED-SYSTEMS, CATIA, ANSYS etc.**

In order to cope up with the industries, students have to learn about the new technology and the software, which have increased the need to upgrade and improve the technical skill of the students. So, the learning about the modern method is provided through the training program on above software.

1. **Encouraging students to write papers based on the project works.**

After completion of the project, students are asked to communicate their work in the conferences through paper/poster presentation. The conference/ Journal are selected by R&D of the institute based on the nobility of the project.

1. **Sending students to project expo Competitions.**

This is expected the competitive spirit necessary to give the project quality a boost.

Selected projects are sent for the project expo competition, which gives the recognition to the student's work, which boost up the morality of the student and also encourage them to become involved in a profession that is crucial to ensuring a sustainable future for our technology. It also helps student to get an exposure to other projects and help to improve their skill.

Implementation:

The above concept was implemented in the institute for all students coming up for project work after the year 2015-16. A remarkable improvement was observed by an internal peer review committee, in the interest shown by students in project work as well as the results in terms of project quality. Also publications by the students based on project work increased an average percentage from 8.6 during 2015-16 to percentage 13.9 during 2016-17.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document
Strategic Plan and deployment documents on the website	View Document

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

Governing Body:

The governing body provides guidelines to the institute on important aspects of its functioning. The distinguished members of governing body felt the need to further enhance the quality of education to make the students better prepared to take on the challenges of modern job requirements.

PROMOTIONAL POLICIES:

Promoting the Faculty from one level to another level, or giving the increment would be done according to norms prescribed in qualification and experience required for each faculty and on fulfillment of the appraisal. In extraordinary case the management may take decision of promoting/ giving an increment to the person premature, based on strong merit based recommendation.

recruitment PROCEDURE:

Recruitment: is taken place according to the norms of the University, a body comprising of Secretary, Dean Academic Affairs, Principal, HOD and Subject experts decides the worthiness of the faculty member by his/her performance in the interview according to the parameters they are looking for Professor, Associate Professor and Assistant Professor.

Service Rules:

The institution strictly follows the service rules according to the AICTE norms. The institution runs for 8 hours. The teaching and non-teaching faculty have the benefits of PF, ESI, Casual Leaves, Earned Leaves , Medical Leaves and Maternity leaves etc.,

service procedure

Around the campus

The following are some of the services provided within and connected to campus.

Transportation

Providing transport facilities for all the faculty members to and; from the college campus is one of the important services provided by Aurora. High quality transportation system is provided either for a subsidized price (in case of lecturers) and fully paid transportation (for Readers and Professors). A separate note with the details of the route points and other information pertaining to the transportation will be given separately to the faculty members.

Canteen

Excellent canteen with hygienic food is provided, to all the faculty members while they are at work at a very concessional price. A separate note with details of timings of the canteen and price list will be given.

Recreation Facilities

Faculty members are provided with recreation facilities on the campus helping them to relax from hectic work schedules. These include, a gym, indoor playing facility, and a meditaion hall.

OFF THE CAMPUS

Accommodation

Faculty members will be provided with necessary support to locate rented as well as permanent accommodation. The college will provide free consultancy and counseling services in this regard.

Support to Faculty Members for their Children Education

Aurora will do all that is necessary towards finding excellent educational facilities for the children of the faculty members working with them. This include, providing information and counseling regarding educational institutions along with the information pertaining to timings of admissions in schools and colleges. Faculty also will be helped in securing admission for their children in prestigious educational institutions.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.2.3 Implementation of e-governance in areas of operation: 1.Planning and Development 2. Administration 3. Finance and Accounts 4. Student Admission and Support 5.Examination

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	[View Document](#)
ERP Document	[View Document](#)
Screen shots of user interfaces	[View Document](#)
Any additional information	[View Document](#)

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

The governing body provides guidelines to the institute on important aspects of its functioning. The

distinguished members of governing body felt the need to further enhance the quality of education to make the students better prepared to take on the challenges of modern job requirements.

College Academic Committee ....Minutes of Meeting

- **Agenda**

- Interactive Teaching- Learning Methodology
- SWOC (Strengths, Weaknesses, Opportunities, and Challenges) analysis

- To prepare the college for autonomous status.
- Recommendations of the College Academic Committee relevant to Interactive Teaching – Learning-
- 'Academic performance results of the institute across all branches need to be improved.' One important step is the introduction of 'Interactive Teaching- Learning' process.

Therefore, as recorded in the minutes of the meeting, it was decided to introduce an **'Interactive Teaching- Learning Methodology'** in the college. It was felt that this will cause remarkable improvement in the quality of the education and will enhance student productive employment potential and improve their professional knowledge.

The application of these interactive teaching learning methodologies would depend on the syllabus and content of the subjects. The techniques could not be common to all subjects. The HODs and Faculty concerned would decide implementation of all / some of these techniques in the course curriculum. Consequently, the topics for Case Studies, Group Discussion, Debate, Student Seminars, Quiz and Role Plays were identified by the faculty.

The elements were as follows.

Learning groups

A learning group concept is introduced to make learning interactive and creative. Students facilitated to form learning groups of three each to enhance interaction and teamwork. Separate learning groups are formed for various activities. Each learning group is guided by a faculty and evaluated separately for each

activity.

Group discussion

Group Discussion is a modern method of assessing student's personality. It is a technique and an art. Participants are encouraged to express their views without arguments. This helps improvement of patiently listening /analytical skills. Persons successful at GD are considered good team players.

Debate

Debating is structured way of exploring the range of views on an issue with contest of argumentation, in which two opposing individuals or teams defend or argue against a given proposition. Debate encourages constructive argumentative and convincing skills.

Student seminars

Student seminars are presentations by the students on the pre-determined topics after self preparation. Seminars are designed to sharpen writing and research skills.

Quiz

Quiz, designed as an innovative, interactive programme to facilitate bountiful flow of knowledge and ideas packaged in exciting rounds.

Role plays

 In the learning environment, role plays can be a flexible and effective tool. Role playing games, exercises and activities help build teams, develop motivation, improve communications and are fun. Role plays are used to study theory applied to practical experience.

Implementation

The method has been successfully applied in the college with Time slots allotted for different activities and the activities are continuously monitored. It is expected that this will contribute to overall improvement in performance of students.

File Description	Document
Link for Additional Information	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

Welfare measures taken by the institute:

1. Free transportation to all supporting/ office/ lab/ nonteaching staff from their residence to college & back.
2. Subsidized transportation to teaching staff.
3. Maternity leave: 90 days pay leave to female employees, two times in theircareer.
4. Sabbatical leave to undertake study or research or other academic pursuits solely for the objective of increasing their proficiency and usefulness to institution on higher education system.
5. The salary is directly credited to the employee's bank account.
6. Faculty with more than two year experience in our institution is provided with funds for attending conferences and workshops. 80 % of faculties make use of this facility.
7. Staff who complete 10/20 years of service are honored
8. Children of the staff who have put in 2 years of service are provided with free education in our consortium
9. Promotion and increments are given to all the staff members regularly
10. P.F scheme for senior faculty members where it is not mandatory.
11. ESI coverage to all employees, with salary more than 20,000P.M.
12. When delay in salary payment due to delay from government disbursement of student fee which forms a Large part of the fee (students are not directly charged), compensation by way of interest on delayed payments.
13. 10 days paid leaves to all employees, if any death happens in their family. Free telephone to all employees (cell phones monthly subscription).
14. Retention allowances to the faculty members in who have completed 5years,7 years,10 years, 12 years and 15 years of service in slabs.
15. 5 days paid leave to the staff on the occasion of their marriage.

File Description	Document
Link for Additional Information	[View Document](#)

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

Response: 65.64

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards

membership fee of professional bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
198	301	182	199	153

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 8

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
8	8	8	8	8

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers attending professional development programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programme during the last five years

Response: 21.6

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
73	94	68	58	50

File Description	Document
Details of teachers attending professional development programs during the last five years	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

Performance Appraisal system for Teaching Staff

1. After completion ofacademic year, all faculty members are required to fill performance appraisal formseeking inputs on –

- Self assessment of performance in the year on set targets including accomplishments. Score points accorded from benchmarks.
- Planning of targets for the upcoming year. Need for advanced / refresher courses. New subjects proposed to teach. Higher academic qualification pursuit
- Subjects taught and the perceived satisfaction level of the faculty/students. Performance level in academic/ other activities.
- Attended Seminars/ Conferences/ Workshops.
- Research activity– presentation of research papers/ projects/ publication of book/Treatises
- Value added to courses taught two or more times.

Besides this comprehensive description, the Academic Performance Indicator (API) as specified by the University and regulatory bodies is also calculated and given its due.

2. After getting the report from the faculty review by the HOD with comments/ observations agreement /disagreement.

3. Next reviewed by the Principal with comments / observations.

4. Grading performance-Excellent/ Very Good / Good/Satisfactory /Unsatisfactory

5. For promotions/merit increments / special assignments, performance level becomes the deciding criterion

6. Unsatisfactory performers are sent to reorientation programs.

Performance Appraisal of Non Teaching Faculty :

Non teaching faculty also go through evaluation process.

They fill up a form at the end academic year describing

* Lab courses covered in the year.
* New points of learning. Major contribution to repairs/Modifications carried out
* Suggestions for improvement of Lab/ Facilities / experiments
* Any new academic qualification obtained or being perceived

Based on the performance graded as Excellent / Very Good/ Satisfactory /Unsatisfactory, rewards like promotion/ merit increments are decided.

File Description	Document
Any additional information	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The internal audit is done by the office staff with the help of the Principal. This is an ongoing work. The Principal endorses every financial transaction before payments are released. Care is taken to ensure that each financial transaction has authentic supporting bills/vouchers. External auditor is appointed by the parent body. The external audit is carried out by an external auditor. The last audit was completed in 31 July 2017.

There were no audit objections in the last audit. The auditors had given the following advice to the parent body:

* "Trustees are advised to produce a registers of immovable properties and movable properties before Auditors at time of Audit.

* All the receipt in cash of donations, fees or other income and revenue be deposited in bank next day. The daily expenditure of the institution be incurred from the cash maintained with cashier which is to be replenished periodically by withdrawal from bank account."

The institute would take care of these points and take suitable action incorporating these suggestions.

  It is the statutory requirement of an institute engaged in any economic activity to conduct regular audits. Our college follows this process rigorously. The accounts of the College are audited regularly as per the Government rules. An internal auditor audits our accounts every quarter. The internal auditor checks receipts with fee receipts and payments with vouchers and other necessary supporting documents. The auditor also checks whether all payments are duly authorized. The external auditor conducts statutory audit at the end of financial year. The report of external auditor for last two years along with audited Balance Sheet and Income & Expenditure accounts are enclosed.

Whenever audit objections are raised, the following mechanism is followed to address them

1. First all the detailed vouchers, papers if needed for verification, are produced to the auditor.
2. Next, if any procedural gap is noticed pointed out, the same is corrected with amends made for the oversight/ lapse paying fine/ penalty due if any.
3. For other differences of perception / opinion, reconciliation is sought and achieved.

File Description	Document
Link for Additional Information	[View Document](#)

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III)

Response: 83.99

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
10	30.19	26.10	17.70	0

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	[View Document](#)

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

Resource Mobilization Strategies :

1. Management
2. Tuition Fees from Students

3. User Fee of infrastructure
4. Grants from UGC
5. From external funding agencies like DST, AICTE etc.
6. The fee received from the promoters / venture capitalists for supporting development of new products / services from an incubation centre
7. Alumni association members are encouraged to donate generously for the development of the institute which is looked as another re source generator.
8. Donations from philanthropists.
9. Funds from Industries through consultancy & Research projects.

Optimum Resource Utilization of Resources:

Procedural Measures

- Before the beginning of the financial year, requirements from all departments (both major and minor) are gathered and a thorough budgeting exercise is done. The actual data on recently completed / to be over year, serves as a guide for this activity.
- All major items of Capital / Revenue expenditure are listed in a priority order so that the expenditure is most effective.
- For all major expenditure items, recommendations from relevant committees are sought on the effectiveness of the proposal and its need based on a cost / benefit analysis. Recommendations are sought in proper formats from the beneficiary groups / departments.
- Budgeted items are further prioritized based on recommendations from relevant committees.
- The proposals are submitted to the governing body after clearance from finance department.
- Cash flow patterns are studied and expenditure scheduled suitably making best use of available balances.
- Financial discipline is observed to avoid/minimize any difficulties / emergencies

File Description	Document
Link for Additional Information	[View Document](#)

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

Aurora's Engineering College has taken concrete steps for the development of students and faculty members. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institution.

The primary goals of IQAC are:

- To promote measures for institutional functioning towards quality enhancement through

internalization of quality culture and institutionalization of best practices.

- To develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.
- Sharing of research findings and networking with other institutions in India and abroad.
- Equitable access and affordability of academic programmes for various sections of society.
- Optimization and integration of modern methods of teaching and learning.
- To bring improvement in the performance of students
- To establish credibility of evaluation procedures.

The following are the roles and responsibilities carried by IQAC:

• To coordinate the distribution of information on various quality parameters of higher education.

• To coordinate the documentation of the various programmes / activities leading to quality improvement.

• To coordinate the quality-related activities of the institution.

• To coordinate the timely and efficient execution of the decisions of IQAC committee.

IQAC is monitored by the following members:

• Secretary

• Principal

• Deans

• Coordinator

Organizing Committee:

All HODS

File Description	Document
Any additional information	[View Document]
Link for Additional Information	[View Document]

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

IQAC monitors the teaching learning process regularly through their organizing committee members. All the Head of the departments are the members of it. IQAC conducts an annual meeting every year in the month of December to check the learning process, structures & methodologies of operations and learning outcomes. These annual meetings are intended to check the overall result analysis and to check the planned goals and achievements of IQAC.

• In every quarterly meeting of IQAC, a few decisions and modifications are taken as a regular process.

• Every department conducts workshops, training programs and guest lecturers periodically, addressed by eminent persons from Industry, Academic and Research Institutions. Eminent experts of National repute are invited from academia/organization/industries for seminars and conferences related to the subjects in course curriculum, basic, practical , hands on experience fundamental and advance topics as planned in the IQAC.

• As part of the closure of teaching learning process the content delivered for the respective

subjects along with evaluation outputs are summed up as course files and are made available in the Departments.

• Class Teachers, Class Representatives, HoDs and Staff meetings are conducted periodically to review teaching and learning process.

• The teaching learning process is reviewed by senior and expert members every month.

• A detailed report is prepared and assessed with necessary actions for the annual meeting.

• In the annual meeting, all the Head of the departments present a detailed report on the planned agenda & achieved goals for the year.

• Principal and the Management Committee plan for incremental additions for the improvement and suggest modifications to it.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 2

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	2	2	2	2

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	[View Document](#)
IQAC link	[View Document](#)

6.5.4 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
2. **Academic Administrative Audit (AAA) and initiation of follow up action**
3. **Participation in NIRF**
4. **ISO Certification**
5. **NBA or any other quality audit**

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	[View Document](#)
Any additional information	[View Document](#)
Annual reports of institution	[View Document](#)

6.5.5 Incremental improvements made during the preceding five years *(in case of first cycle)* **Post accreditation quality initiatives** *(second and subsequent cycles)*

Response:

The institution has formally established an Internal Quality Assurance Cell

(IQAC) headed by Principal. The objectives of the IQAC are

1. To ensure continuous improvement in the entire functioning of the institution.
2. To ensure communication between stakeholders connected with Higher Education, Parents, Teachers, Staff, Would be Employers, Funding Agencies and Society at large.
3. To optimize and integrate the modern methods of teaching and learning.

Following recommendations are approved by the Management for implementation:

1. ICT enabled and innovative teaching practices to be incorporated.
2. Scheduling of Special Classes for weak students.
3. Planning for the lab experiments content beyond the syllabus.
4. Introduction of internal marking system for students.
5. Implementation of outcome based education system.
6. Periodic monitoring of progress.

All the above recommendations are approved and implemented.

- The IQAC have external members on its committee. Members provided contribution in improving the areas like admission, course up-gradation consistent with the changing needs, industrial linkages, and expertise in the domain to improve the functioning of the institution. Suggestions from students through class meetings and feedback are discussed in the IQAC for necessary action. Alumni from India and abroad give information about the needs of the industries, skills required, vacancy positions etc., and share their experiences. This is brought to the notice of IQAC and Training and Placement Cell for suitable action. IQAC acts as a bridge between various levels of Management.
- All the departments have coordinators who are members of the IQAC communicate in both ways to manage the activities effectively. The communication is done through circulars, e-mails etc. and organized meetings. The institution has an integrated frame work for quality assurance of academic and administrative activities. It reviews the information which is received from various departments and administrative activities. The outcomes are discussed in the academic council meetings for improvements like those in teaching methods, result oriented coaching, and extra care for slow learners. It conducts special tests to understand the mathematical level and the grasping level of students. This analysis gives the way to assess quality of the students admitted.
- The IQAC also supervises the theory and the practical skills developed among the students. It also uses the grades of University examinations for quality assurance. It also grades the co-curricular and other activities and gives feedback about the quality and necessary measures for improvements.

The institution organizes Faculty Development Programmes (FDP), seminars, workshops and skill development programs to encourage the faculty to enrich their knowledge and skills. The institute invites academicians and industrial experts and carries out academic audit. This type of audit gives a feedback in the areas where an improvement is needed. The institution accordingly plans and implements the process.

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 20

7.1.1.1 Number of gender equity promotion programs organized by the institution year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
5	5	5	3	2

File Description	Document
List of gender equity promotion programs organized by the institution	[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:
    1. Safety and Security
    2. Counselling
    3. Common Room

Response:

The institution has the practice of employing around 40% woman. This is one way empowering woman. The Institution has introduced Gender Sensitization course for all branches as per the guidelines of JNTUH.

1. Safety and security:

- Women Empowerment Cell (WEC) has been constituted to empower and safe guard the rights of female members; faculty staff and students of the Institution.
- Works to promote gender sensitivity in the Institution and produce harmonious atmosphere on the campus.
- It organizes workshops and sensitization programs both for staff and students by eminent Psychologists and social workers.
- The committee also addresses similar kind of issues on various occasions like Women's day, Mother's day, Orientation day, etc.
- The college employs security personnel who make sure that no untoward incidents take place in the college that make the women employees and girl students feel insecure.

Basic Functions of Cell:

- To promote gender sensitivity in the Institution and conduct diverse programs to educate, sensitize both male and female members.
- The cell notifies its presence through posters, notices and interactive sessions and also creates awareness among the students and faculty on the repercussions they face, if they resort to harassment of any kind.
- It organizes workshops and sensitization programs both for staff and students by eminent Psychologists and social workers focusing on the issues of women empowerment &and women safety.
- The cell strives for women empowerment and creation of gender equitable AEC Campus. The Statutory Committee Grievance Redressal Committee (GRC) is formed as per Clause 1 of section 23 of the AICTE Act, 1987.
- The Committee has been formed in order to ensure transparency by technical institutions imparting technical education in admissions, preventing unfair practices, complaints of alleged discrimination by students.
- Basic Functions of Cell Any grievance reported is scrutinized and necessary actions are always taken by the Cell. In case of emergency, the principal conducts meetings and addresses the problems immediately.
- When a complaint is received by the cell, it conducts an enquiry to identify the gravity of the offence. Based on the firsthand information and prime-facie evidence, the committee submits its report to the Principal for further action. No sexual harassment complaint has been recorded so far.

2. Counseling:

- It also attends to the Grievances of the aggrieved students and attend their problems.
- It also provides platform for social interactions and compatibility among the students.
- All proceedings of the counseling shall be recorded and signatures of participants shall be taken.
- The Cell will provide assistance to the Faculty/Colleges/Institute for taking preventive steps in the matter of gender discrimination and sexual harassment.
- The senior and junior lady faculty members are identified for counseling the girl students and knowing their problems and helping them.

3. Common Room:

- The Institution has established a separate room for girls and women (exclusively) to take rest, if required and it is produced with other facilities required for women.
- In order to meet medical exigency, first aid facilities along with medical care is provided here.
- For any medical assistance the doctors are always available

File Description	Document
Any additional information	[View Document](#)

7.1.3 Alternate Energy initiatives such as:

1. **Percentage of annual power requirement of the Institution met by the renewable energy sources**

Response: 69.96

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 67500

7.1.3.2 Total annual power requirement (in KWH)

Response: 96479

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 5.38

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 460.21

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 8554

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document

7.1.5 Waste Management steps including:
- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

Solid waste management

- Aurora's engineering college is working ambidextrously to work on a concept i.e. waste to become wealth- refuse to become resource- trash to become cash.
- We work on waste management focusing on preventing the production of waste through waste minimization and the re-use of waste materials through recycling process.

- Our organization has the dedicated and efficient team to work towards the successful implementation of re-use of waste materials through recycling.
- Our team includes students, faculties and staffs. It has set up waste management systems to cope up with the types of non-hazardous, difficult and hazardous waste produced around campus.
- The Team gives advice and guidance on waste disposal practices and makes everyone aware of effective waste management system.
- The institutes' deals with the managing solid waste that is produced in college such as Organic material, used stationery, plastic items etc.
- The organization offers solutions for recycling items that do not belong to garbage or trash.
- In our organization use solid garbage or trash are sent for inter college recycling process.
- Our organization has a tie up with different waste ventures such as **waste ventures India** and **daily dump**in weekly basis.
- Paper waste sent to the arts club, where the art club will use the same to make some innovative artistic design, and are displayed in the time of exhibition in the college.
- We are also organizing different events such as **Swach Bharat Abhiyan**, **world environment day**, **awareness program** on plastic free Environment etc.to guide everyone and motivate them to clean our college premises.

LIQUID WASTE MANAGEMENT

- Our organization includes procedures and practices to prevent discharge of pollutants to the storm drain system.
- Leftover veg and non-veg food, fruits and vegetable peels, tea and coffee waste, waste from seeping and other bio-degradable waste is disposed by WOW-An innovation joint initiative of GHMC & ITC for achieving "SWACHH HYDERABAD".
- Chemicals, machining waste and coolants are collected properly in theworkshop and disposed-off.
- The liquid waste of our organization generated from
- In a weekly basis the liquid waste is disposed by **waste ventures India** and **daily dump** liquid waste management companies.

E-Waste Management

- E-waste describes discharge electrical or electronics devices.
- Our organization displays about awareness of e –waste hazards at different locations in the premises.
- The organization deals with the managing the e-waste such as
- Every end of semester a routine e-waste survey is done in our organization.
- The useful e-waste is kept for the demonstration or for mini project and other are disposed by some of the e-waste management companies such as**, Orbit technologies PVL**, **Daily dump** for recycling process.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

- Rain water harvesting structures are constructed to store the rain water. In our college we have 10 rain water harvesting pits.
- The social impact based project on rain water harvesting pits being implemented on campus by final year civil engineering students with the help of civil engineering faculty.
- Many trees are planted in the campus and are maintained using the rain water which is stored in the harvesting pits.
- Our organization conducted seminars so, that students understand the technicalities and benefits of harvesting rain water. We had taken a special interest in explaining to them and the importance of restoring ground water levels for the coming generation.
- The increased need for water may result in lowering the groundwater table and depleted reservoirs. Hence the use of rainwater will be a useful alternative to provide continuous water supply for our students and laboratories.
- This will not only be helpful to fulfill the need of water supply to our college but also provide water to faculty residing in the campus.
- The water stored from the rainwater will also be of good quality i.e., free from impurities which might be there in groundwater.

File Description	Document
Link for Additional Information	[View Document](#)

7.1.7 Green Practices
- **Students, staff using**
a) **Bicycles**
b) **Public Transport**
c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

- The green environment is home to huge variety of flora and fauna.
- In our college the percentage of students and staff using bicycles is 5%, Public transport is 70%, pedestrian friendly roads 5%, and private transport 20%.

- The local private transportation is reduced by providing free transportation facility to local students and faculties (In college bus almost 80% of the non-local students are connecting). This has reduced pollution by minimizing the individual transportation.
- Optimal utilization of print out papers is emphasized in our campus.
- Use of plastic bag is discouraged in our campus.
- Use of effective ERP system to promote paper less work.
- Organization had organized bicycle rally from Bhongir city to promote the use of bicycles for pollution free environment.
- Gardner is appointed for maintaining the tress and lawn.
- Our organization had both internal as well as external green audit system to maintain green and clean campus.
- Additional green area is created in the infrastructural space with the help of potted plants.

PLASTIC FREE:

- For college canteen, celebrations, events etc college has taken a stand to use plates, glasses, etc made up of paper for eco- friendly environment.
- Display boards with quotation on problems with usage of plastic are kept at prominent locations in the campus.
- AEC is always encouraging to organize including programs promoted by T S govt. like **Harithaharam** in the campus by these activates college management creates awareness on green revolution among students and faculties and also improving greenery in the campus to create the pollution-free environment.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 0.81

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
23.8	4.3	3.3	1.27	1.46

File Description	Document
Details of expenditure on green initiatives and waste management during the last five years	[View Document](#)

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. **Physical facilities**
2. **Provision for lift**
3. **Ramp / Rails**
4. **Braille Software/facilities**
5. **Rest Rooms**
6. **Scribes for examination**
7. **Special skill development for differently abled students**
8. **Any other similar facility (Specify)**

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

File Description	Document
Resources available in the institution for Divyangjan	[View Document](#)
link to photos and videos of facilities for Divyangjan	[View Document](#)

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 22

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
7	3	3	3	6

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	[View Document](#)

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 15

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
7	4	1	2	1

File Description	Document
Details of initiatives taken to engage with local community during the last five years	[View Document](#)

7.1.12
Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
Any additional information	[View Document](#)
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	[View Document](#)

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Any additional information	[View Document](#)
Provide URL of website that displays core values	[View Document](#)

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	[View Document](#)

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

File Description	Document
Any additional information	[View Document](#)
Provide link to Courses on Human Values and professional ethics on Institutional website	[View Document](#)

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

File Description	Document
Provide URL of supporting documents to prove institution functions as per professional code	[View Document](#)

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 91

File Description	Document
List of activities conducted for promotion of universal values	[View Document](#)

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

International Day of Non-Violence, October 2

This world has seen its share of bloody wars that ended countless lives and filled many more with grief. No matter what country you go to, there are stories of how someone's greed or lust for power resulted in the killing of innocent people and the destruction of beautiful cities. Even wars that were fought for a good cause, like the Civil War of the United States of America, that resulted in slavery being abolished, have been responsible for a great many deaths. Fortunately, however, there are people in this world who have gone about making the changes they thought necessary without violence or pure brute force, and these are the people that the International Day of Non-Violence celebrates. No matter where you live, there's no denying that a day celebrating non-violent ways of making a statement and bringing about change is long overdue, and that these peaceful strategies for fighting injustice more than definitely deserve their own day.

TEACHERS' DAY CELEBRATIONS

"Guru Brahma, Guru Vishnu, Guru Devo Maheshwara.

Guru Sakshath Parambrahma, Tasmai Shri Gurave Namaha."

"Teachers are the torch bearers of the next generation"

Teacher's day is celebrated every year on 5th of September in india to honor the contributions of the teachers in our study, society and country. There is a great reason behind celebrating the teacher's day on 5th of September. It is the birth anniversary of a great person named, Dr. Sarvapalli Radhakrishnan. He was highly devoted towards education and well known as the scholar, diplomat, President of India and most importantly a Teacher.

ENGINEERS' DAY CELEBRATIONS

"Remember the race is for the skilled and the strong, we cannot hope to succeed if we continue to work with antiquated tools and follow old fashion business methods."

Engineering is not merely knowing and being knowledgeable; engineering is not merely analysis; engineering is not merely the possession of the capacity to get elegant solutions to non?existent engineering problems; engineering is practicing the art of the organized forcing of technological change.

Independence Day

Aurora, Bhongir celebrated the 70th Independence Day with great solidarity on the 15th of August to commemorate the birth of a free and democratic nation. The Principal hoisted the national flag on this occasion. All the students and teachers saluted the flag and then sang the National Anthem. This was followed by cultural programs, patriotic poems and songs that were recited both by the teachers and the students. On this joyous occasion the principal conveyed his greetings and good wishes to all the students and faculty members asking everyone to contribute to the peace, progress and prosperity of the nation. In his message to the gathering

File Description	Document
Any additional information	[View Document](#)

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

7.1.13. The institution maintains display of core values of the institution

• Human values form the basis for all our thoughts, behaviors and actions. At Aurora we don't just teach these values but practice them.

• The college has been putting efforts towards inculcation of human values and professional ethics among the student as well as teaching community by arranging a series of guest lectures by the experts in the field

• Various events are organized at regular intervals by the student activity committee that are aimed at fine-tuning life skills needed for individual and professional growth that ultimately leads to the benefit of the society and the nation.

• Many value added courses have been offered by the college stressing on the importance of positive attitude, interpersonal relations, adaptability, strong work ethics, self confidence, time management abilities, etc. for inculcating human values and professional ethics.

• We at Aurora teach the students ethical values as they help us to decide what are more important when making decisions. A student needs to have these values to shape his or her to become a respectable citizen.

• The students from rural background who are not good at communication skills are trained in the English lab for better communication skills.

• The college helps the students in all possible ways; it considers helping the students in getting promoted to the next class under genuine medical grounds, etc.

• The institution, with its enviable academic environment, helps the students reap benefits as the teaching learning process is adopted by involving teachers and students by interactions.

• Our organization is quite a often celebrating the birthday of great phenomenal of India.

• Personality development and communication skills classes are provided in the time table. This helps in the building of overall personality of the students.

• The institution encourages students to participate in all the activities organized by the clubs and committees to develop their interpersonal skills and also enhance their creative and leadership skills.

• The institution is committed to promoting the highest standards of honesty and integrity to ensure that all members of the community recognize the inherent benefits of living these ideals and to guarantee that academic performance is evaluated reliably and rewarded fairly.

• We are also organizing the national events and celebrating Independence day, Republic day to bring nationality among students and faculty fraternity.

• We are committed to creating an environment where all members of the community pursue the highest possible level of academic performance and personal development for themselves and other members of the community.

• The institution has the Code of Conduct for students which makes sure that all students will be good and respectful citizens. This is aimed to ensure fair treatment of students and to make them aware of the importance of human values and ethics.

File Description	Document
Any additional information	[View Document](#)

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

 Best Practices I

1. Title of the Practice

Internships: Towards preparing industry-ready human resource

2. Objectives
What are the objectives / intended outcomes of this "best practice" and what are the underlying principles or concepts of this practice (in about 100 words)

The following are the objectives of Internship
Experience: Students that have internships acquire better experiences and also get to see first-hand how companies work. This provides a valuable understanding of the business and industry in which you want to work in once you graduate.
Company Expectations: Most companies expect college graduates to have some level of experience, even with entry-level positions. An internship provides the all-important experience all students' need. The more internship experience you have, especially if you decide to intern with multiple companies throughout your college years, the more credible your background will look on your resume.
Resume Builder: Make sure to find internships that are relevant to your major and add them to your resume. This provides a great foundation in your desired industry and will propel you above other college graduates with no internship experience.
Glimpse into a Full-Time Job: As a college student, you may know what type of work you want to do when you graduate, but you may not know what the day-to-day looks like. An internship provides a glimpse into what the work is like and if you will like it or not. Internships provide real-life exposure to the work world and business without committing an entire career.
Gain Confidence: You may not have the experience yet, or even the confidence to do the job you think you want, however, most internships train college students on-the-job and provide a fantastic learning experience for them to build their confidence.
Build Your Network: Building your professional network is just as important as building your experience. Internships allow students to connect with professionals that are involved in similar work. It's important to build your professional network. These connections can be very important for you when looking for a job.
Reference Letter: As you build your network with the people you are working alongside in your internship,

you may be able to ask them to be a professional reference. This is critical because companies ask for references in the hiring process.

Get Hired: An internship is ultimately designed to get the student a job offer. However, before you get an offer, students must go through the process of applying for and working with companies that offer internships. This can be a multi-year process from the time you enter college all the way through your senior year. This process can and does lead to valuable experience that students want and need.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

7.3.1. Describe the performance of the institution on one area distinctive to its vision, priority and thrust.

Enhancing the employability skills of the students

Career development and change are increasinglyimportant factors for many undergraduate engineering students.Alongside this, there is a growing expectation thatthe students experience includes developing anawareness of how knowledge and skills acquiredthrough academic study support individuals' abilityto find employment change their job or developtheir career. With growing numbers of student, employability is becoming aneven more important aspect of our provision.

• Aurora's Engineering College is committed to providing opportunities for its students to develop abilities and skills which will enhance their employability. These opportunities are available to students at every level of study, regardless of their own personal circumstances.

• Aurora's Engineering College has strong tie-ups with different industries, R&D labs and Public Sector companies. We interact with the industrial experts on a continual basis to fine-tune the skills of our students relevant to the industry expectations. Faculties periodically visit Industries which are working on their area of research to update their knowledge about contemporary Industrial practices.

• Faculties from AEC also offer Executive Programs to engineers from Industry on their area of research. The college has several special interest groups which are working closely with their related Industries to create and foster an environment of modernization and sustained interaction with the Industry.

• The Training and Placement, Career Guidance & Entrepreneurship Cell of this college provide guidance and all the assistance for the students in order to achieve their career goals. The unit takes right steps in identifying the demands of the current industry and prepares our students towards this need. Adequate

emphasis is given for soft skill development complementing the regular academic programs.

• Aptitude tests and group discussions are conducted at regular intervals to enable the students to improve their performance in competitive exams. The Placement Officer who is assisted by faculty and student representatives from all the departments heads this unit.

• Job oriented courses and special training programs are regularly conducted. AEC also welcomes guest lectures, visiting faculty members for training students and faculty members too.

• Recruitment drives are conducted at regular intervals at college level as well as consortium level. Thousands of our students are placed in various companies of national and international repute.

• Guest Lectures and Training Programs are arranged for the students. We always endeavor to build such capabilities among the students in a systematic manner. The training and placement division has a focused approach to prepare students right from the second year of joining the college.

• The college has facilities within college premises for conducting campus interviews and these include those for presentation, conducting aptitude tests, group discussions and interview techniques. Sessions are also arranged on Resume Writing. This training includes personality development, communication skills, and extensive exercises to inculcate analytical abilities empowering students to interpret data faster.

File Description	Document
Any additional information	[View Document](#)
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5. CONCLUSION

Additional Information :

Involvement of Industry professionals for sharing upgraded technical Knowledge. Scarcity of quality faculty, qualified doctorates as well as teaching faculty with industrial exposure and with a comprehensive assessment of the needs of the industry/ society is a challenge Students skill need to be enhanced through additional measures as per the continuous changing requirements of the industry. The weather conditions and the location of the college are definitely an excellent opportunity .Maintaining high levels of innovative spirit in research is a big challenge requiring constant persuasion, adequate facilities and time to foster innovation. Programmes like entrepreneurship development, technology business incubation and venture capital based business establishment are futuristic challenges in the changing roles of Universities trying to satisfy quite divergent aspirations of the country in technical competence.

Concluding Remarks :

The results of the SWOC analysis together with the core values, vision and mission of the institute as well as the institute's perceptions about its social responsibilities formed the basis for developing the strategic plan. The institute is firm in its maintenance of financial stability to renew, upgrade or induct afresh infrastructure to the growing needs of the institution apart from

attracting well qualified faculty who are willing to go that extra mile within the given facilities for the growth of the institution