



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

**ESHAN COLLEGE OF ENGINEERING**

**SAHZADPUR PAURI, NH-2, AGRA MATHURA HIGHWAY, MATHURA, UTTAR  
PRADESH, 281122**

**281122**

**[www.eshancollege.com](http://www.eshancollege.com)**

**SSR SUBMITTED DATE: 07-04-2023**

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**April 2023**

# 1. EXECUTIVE SUMMARY

---

## 1.1 INTRODUCTION

Eshan College of Engineering is being established under the Aegis of LORD SHIVA TRUST in the year 2009. In a country where education is held in very high esteem and the teacher is equated to God, we at Eshan College have dedicated ourselves to impart education and develop the student to be a responsible engineer and citizen of country. The Institute is affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow and is approved by the All India Council for Technical Education (AICTE), New Delhi. The college offers four UG Programmes (1). B.Tech. Civil Engineering, (2) B.Tech. Computer Science & Engineering, (3) B.Tech. Electrical Engineering, (4) B.Tech. Mechanical Engineering and one PG programme M.Tech. Computer Science and Engineering. Students of Eshan College are groomed carefully and the virtues of hard work, discipline and ethical practices in profession are imbibed in them constantly during their campus life. Campus life here stresses the importance of extra activities apart from academic learning, leading them to many new avenues. All these go a long way in making our student a thoroughbred professional, eminently suited to contribute in his chosen career with an ever open mind for new thoughts and ideas in industrial and technological advancements. We are hence confident that our students equipped with such capabilities will emerge as valuable contributory assets to the development of the organizations they serve as well as to the nation.

### Vision

To create conducive environment in which students acquire professional and ethical qualities to become socially responsible technocrats.

### Mission

- To impart high quality education and professional skill development to our students.
- To inculcate discipline, team-spirit and critical thinking ability in students.
- To promote the advancement in research and education by providing the supportive environment.
- To provide education that is liberal, inculcate professional behaviour with strong ethical values.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

- Progressive and committed Management to bring high levels of quality in each and every aspect of the College.
- Dedicated faculty members with good team work. Clear Vision, Mission, Goals and Objectives.
- Very good Infrastructure and the institution is surrounded by lush green environment. Wi-fi enabled campus.
- Institution has acquired ISO 9001:2015 certification.
- Located on the Agra-Mathura National Highway (NH-2).

- Proactive Internal Quality Assurance Cell (IQAC) to ensure quality in teaching learning process. Training camps and excellent placement opportunities for students as the number of companies recruiting are increasing year by year.
- Facilities available for various indoor and outdoor games and sports.
- Scholarships in Tuition Fees for deserving students from Management.
- Free Bus facilities to faculty members and staff.

### **Institutional Weakness**

- Being affiliated institution, inflexibility to academic structure and curriculum.
- Faculty members with Ph.D. qualification need to be improved.
- Publications, citations and patents are needed in high impact factor journals.
- Creation of Incubation centre.

### **Institutional Opportunity**

- The location of the college will leverage the opportunity to have collaboration with Central/State Universities, industry and research laboratories.
- Scope for collaborative student projects with industries.
- Strengthening the alumni network to provide more career development opportunities to the students.
- Increased focus on higher education: - Govt. of India focusing more on higher education to provide quality education for UG and PG courses.
- More efforts in Digitization: - Digitisation will present a huge opportunity for educational institutions in terms of saving costs as well as reaching out to more students.
- Programmes in recent emerging specialization.

### **Institutional Challenge**

- Having a wider range of career opportunities available in the Software / IT sector, attracting quality students to enrol in the core engineering branches like Civil, Electrical and Mechanical Engineering is become a challenge.
- Being an affiliated institution, meeting the fluctuating industry demands and expectation with rapid change in technology has become a challenge.
- Attracting core companies for placements.
- Challenge to enhance faculty/ student exchange programs with reputed academic organizations.

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

Eshan College of Engineering (ECE) follows the CBCS curriculum prescribed by the Dr. A.P.J. Abdul Kalam Technical University & ensures its effective delivery through a well-planned and documented process.

- The University curriculum offers various subjects related to cross- cutting issues relevant to Gender,

Environment and Sustainability, Human Values and Professional Ethics.

- The curriculum offers the students to choose open elective courses across departments as well as to earn extra credits from MOOC courses offered by SWAYAM/NPTEL, Coursera, Edx, etc.
- Allotment of theory/practical subjects including electives/open electives is done by the HOD and Departmental academic committee based on the faculty expertise and preference taken from faculty each semester.
- Curriculum delivery is planned and executed with a detailed course plan which includes lectures, tutorials and practical sessions, documented in the course file and monitored with a structured continuous internal evaluation (CIE) and feedbacks
- 43 number of Add on /Certificate/Value added courses offered and online MOOC courses in last 5 years where 1577 students get enrolled and benefitted
- CIE based on Blooms taxonomy gauge the students' using assignments, seminars, project presentation and internal examinations conducted at regular intervals
- Hands on training is available to the students through industrial visits/ internships, projects which are part of the curriculum implementation. 298 students undertaking project work/field work/ internships in the latest completed academic year
- Curriculum gaps are identified using feedbacks, collected and analysed from different stake holders and necessary actions are taken to fill in the gap with workshops, seminars, industrial visits etc.

### **Teaching-learning and Evaluation**

- Student Admission-related regulations given by AICTE, University and Government are meticulously followed in the institute with strict adherence to the reservation policy of the government.
- Currently 533 students are enrolled in 4 UG programmes and 1 PG programmes in the college.
- 34,17 % seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first-year admission during the last five years
- The institutions make sure that all the sanctioned teaching posts are filled on time.
- The students to full time teachers ratio is 8.59.
- A wide range of student-centric methods like experiential learning, participative learning and problem-solving methods are employed in our institute to ensure overall development of our students
- The institute has a Learning Management System and a good reservoir of e-learning materials. All the teachers in our institute use a variety of ICT enabled tools to ensure effective knowledge transfer to students.
- An efficient and time bound mechanism is active in our institute to handle examination related grievances.
- Vision, Mission, PEO, PO, PSO & CO statements are well informed and understood by all the stakeholders. Mapping of CO to PO, PO to PEO is computed and calibration of various inputs for teaching and learning process are initiated.
- Institute ensures fair and uniform conduction, evaluation of examination and information dissemination among stakeholders.
- Average pass percentage during the last 5 years in the college is nearly 86.64.

### **Research, Innovations and Extension**

- The most important element an institution focuses upon is the resources and environment it provides to the students to enrich their knowledge and skills. To ensure this, Eshan college of Engineering has

developed an eco-system that fits the educational needs of the students.

- The faculty members pursuing research are encouraged by the institute by providing them the required equipment, books, leaves for research work, financial assistance for conferences/ journals, e-resources, computer facilities, Wi-Fi etc.
- Many papers have been presented in national/international conferences. Also, books have been published by faculty members.
- The faculty members who do not possess Ph.D degree are advised to register for research work.
- Institution organized seminars, conferences and workshops on various current research domains including on entrepreneurship, IPR and Research methodologies.
- Many industrial linkage programs such as internship, field trip, on-job training have been organized in last five year. More than 20 MOUs have been signed and are active with Industries, organizations of high importance for industry-academia linkages.
- ECE strongly supports participation of its students and faculty in socially useful activities that contribute significantly to the overall upliftment of society and promote wellbeing. Faculty members and students are actively involved in Institutional Social Responsibility activities through departmental societies and programs/ activity conducted by Govt. Organizations.
- Numerous of the activities have been organized in near past, such as tree plantations, adoption of the village, having a residential camp for building a rapport.

### **Infrastructure and Learning Resources**

ECE is functioning from campus in Mathura (Farah) spread over 11.52 acres of land with a total build-up area 17994.01 sq.m. It has a well-developed infrastructure like green buildings for academics, hostels, library, laboratories, sports and IT facilities. The physical infrastructure includes 26 class rooms, 2 seminar halls, and 1 conference hall, all equipped with ICT facilities including overhead projectors and Wifi access.

- The institution has 135 computers. Computer laboratories are installed with open-source software.
- Fully air-conditioned central library has 20684 books with build-up area of 580 sq.m. The library functioning is automated using an in-house developed automated LMS platform. Library has access to DELNET facility through institutional membership and adequate number of terminals to facilitate searching/accessing e-resources, web browsing and for other academic works.
- A centralized server to provide uninterrupted IT services with internet connectivity of 60 Mbps bandwidth. Computer – student ratio is 1:4.
- Regular improvement in IT infrastructure as per requirements.
- Media room with state-of-the-art hardware and software for video and audio recording and editing, for e-content development is provided.
- Well established policy procedures are in place for maintaining of various infrastructural facilities.
- Adequate financial allocation are made for maintenance work of institution.
- Eshan Sports Academy (ESA) of the institute is responsible to organize all sports activities from time to time. Volleyball, Cricket, Football, Badminton, Track for Athletics, long Jump, Javellin throw, Shot put, Tug of war are some of outdoor games whereas Chess, Carom board, Table Tennis Tables are commonly played indoor games.

### **Student Support and Progression**

ECE puts in relentless efforts for the all-round development of students. Various technical, cultural fests, social activities and cocurricular activities are organized for students from time to time.

- 100% of the students avail scholarships & free ships from Government as well as the institution.
- Guidance for competitive examination, soft skills training, Life skills, ICT/Computing Skills Yoga and meditation classes are the initiatives for all round development of students.
- Grievance Redressal-Committee and Anti-Ragging-Committee and Internal complaints committee help the students to address the concerned issues, if any. Transparent mechanism for timely redressal of all academic and non-academic grievances of students including sexual harassment and ragging.
- More than 45 sports/cultural activities/department level competitions are organized in the institution every year.
- The institution encourages students to participate in cultural and sports activities organized in and out of the campus.
- Good placement record and on an average 70% of the students are placed on campus.
- Students are encouraged to pursue higher education and many students have enrolled on such courses.
- Dedicated placement and training office taking care of Placements, Internships & Trainings of students
- Our alumni contribute actively to the growth of the institution through the alumni association in terms of enhancement in teaching learning process and placement training activities. They are continuously in touch with Training and Placement Cell and give active support in arranging industrial visits, industrial training and placement drives for the students.

### **Governance, Leadership and Management**

- The institution has an effective and transparent way of governance targeted towards to achieve the vision and mission of the Institution.
- The organization structure and decentralization is clearly defined in the organogram. The Governing Body conducts periodical meetings for analysing the progress of the institution and to frame the future line of action.
- The Management has constant touch with the Director and administrative officer to maintain cordial rapport to discuss the infrastructural needs, development, administration and appointments.
- The Director is the academic and administrative head of the college and responsible for the implementation of the Vision and Mission of the college.
- Institute has a clear perspective/ strategic plan and management keeps a vigil track of activities to achieve the plan.
- Well defined policy which includes service rules, admission policy, placement policy and procedures for recruitment and promotion.
- Implemented e-governance in the all the areas of administration, examination process, academics, finances and admissions.
- Various bodies/ cells/ committees are working effectively and regular meetings are called for the discussion and minutes are recorded.
- More than 60% teachers have been benefited with financial support for attending conferences/ workshops during the last 5 years.
- More than 70% teachers and non-teaching staff during the last 5 years are benefited from attending FDP/ professional development programs within or outside the institute.
- Implemented various welfare measures for teaching and non-teaching staff.
- IQAC is responsible for the effective implementation of the Quality processes.

IQAC is conducting meeting on regular basis and have organized collaborative quality initiatives.

### **Institutional Values and Best Practices**

Eshan has been consistently striking to display the best institutional values and policies.

- Institute promotes gender equality and sensitivity through various gender equality promotions programs.
- Institute has specific facilities for women like CCTV camera, proper lightning arrangement, counseling cell, separate common room etc. for safety and security.
- Institute has taken special interest in celebrating and organizing national & international commemorative days, events and festivals on regular basis.
- Institute has taken several steps to promote environmental consciousness by adopting alternative source of energy and energy conservation measures.
- Institute has installation of solar plant, rainwater harvesting system, water tanks and water distribution system.
- Institute conducts quality audits on environment and energy on regular basis.
- Institute has established management of degradable and non-degradable waste.
- The institute has created a disabled friendly barrier free environment by promoting ramps, wheel chair and washrooms at various nocks and corners for easy access for Divyangjan.
- The institute has lush green campus and promotes green initiatives by banning plastic use and promoting green campus policy.
- Institute has dress code for all students. Institute organizes orientation/induction program each year for new students.
- Institute organizes technical / non-technical events on regular basis to provide inclusive environment i.e. towards cultural, regional, linguistic, communal socioeconomic and constitutional obligations for students.
- Institute has adopted a school to bring constructive changes in the life of students.
- Institute has provision of special fee concession for economically weaker students. Large number of students has taken benefit of this program.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	ESHAN COLLEGE OF ENGINEERING
Address	Sahzadpur Pauri, NH-2, Agra Mathura Highway, Mathura, Uttar Pradesh, 281122
City	Mathura
State	Uttar pradesh
Pin	281122
Website	<a href="http://www.eshancollege.com">www.eshancollege.com</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Director	Pankaj Sharma	0562-2970128	9258011578	-	eshancollege.director@gmail.com
IQAC / CIQA coordinator	Rajiv Kumar Vishwkarma	-	9258011580	-	eshancollege.dean@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details



State	University name	Document
Uttar pradesh	Dr Apj Abdul Kalam Technical University Uttar Pradesh Lucknow	<a href="#">View Document</a>

Details of UGC recognition		
Under Section	Date	View Document
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	<a href="#">View Document</a>	02-06-2022	12	AICTE provides approval for twelve months and extends approval every year for further twelve months

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	Sahzadpur Pauri, NH-2, Agra Mathura Highway, Mathura, Uttar Pradesh, 281122	Rural	11.52	7286

## 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,Mechanical Engineering	48	Intermediate	English	60	14
UG	BTech,Civil Engineering	48	Intermediate	English	60	8
UG	BTech,Computer Science And Engineering	48	Intermediate	English	60	7
UG	BTech,Electrical Engineering	48	Intermediate	English	120	133
PG	Mtech,Computer Science And Engineering	24	B.Tech or BE	English	9	6

### 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	6				14				42			
Recruited	6	0	0	6	14	0	0	14	19	11	0	30
Yet to Recruit	0				0				12			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				28
Recruited	27	1	0	28
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				14
Recruited	13	1	0	14
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/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	6	0	0	0	0	0	0	0	0	6
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	15	0	0	18	11	0	44
UG	0	0	0	0	0	0	0	0	0	0

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

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

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

**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	405	3	0	0	408
	Female	116	1	0	0	117
	Others	0	0	0	0	0
PG	Male	4	1	0	0	5
	Female	3	0	0	0	3
	Others	0	0	0	0	0
Diploma	Male	200	4	0	0	204
	Female	12	0	0	0	12
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	39	34	36	34
	Female	7	8	11	3
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	23	31	33	37
	Female	9	10	8	13
	Others	0	0	0	0
General	Male	44	36	30	30
	Female	16	9	9	7
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		138	128	127	124

### Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>ECE is affiliated to Dr. A.P.J. Abdul Kalam Technical University (AKTU) and is bound to follow curriculum prepared by the same. The AKTU has already implemented the Choice Based Credit System (CBCS) curriculum further enriched by introducing the multidisciplinary open-elective system and students of all programmes are studying Interdisciplinary courses each with credits weightage. The faculty at the institution has the capacity and knowledge to teach inter and multi-disciplinary courses to bridge the academic institutions and industry. The institution has limitation in offering flexible and innovative curricula. To compensate this, institution encourages students to participate &amp; earn</p>
---	--

	value-added courses/labs certifications, technical talks, and also to prepare multidisciplinary innovative projects. ECE is also preparing to get academic autonomy in near future to have freedom to introduce more multidisciplinary courses with particularly focusing on interdisciplinary vocational education.
2. Academic bank of credits (ABC):	In NEP, provisions of ABC are made to facilitate the multiple entries and exit points in the academic programmes. This is an innovative idea where students earn credits through National schemes like SWAYAM, NPTEL, V-Lab, etc. and deposit to get the programme completed. Our institution preparedness in implementation of ABC will be as per the flexibility provided and guidelines issued by affiliated university AKTU. ECE shall abide by the curriculum and structure prepared by the AKTU in this regard. Faculties and students of the college are already introduced to ICT based technologies for teaching/learning, experiential learning and assignments.
3. Skill development:	We are providing ample opportunity to students and staff for skill development, even though we are restricted to some extent by AKTU concerning curriculum design. But AKTU have already provided much scope for skill development by introducing various project-based courses like 'Mini Project or Internship Assessment' (three times in 2nd year, 3rd year & 4th year in all engineering programmes), two Project courses in final year of engineering programmes, etc. Further, almost all theory courses are accompanying laboratory courses where students employ theoretical knowledge to operate lab equipments and perform practicals helpful in their skill development. The institute takes care of trainings in technical, soft-skill through its knowledge partners. The institution has MoUs/Academic collaborations with reputed organizations and Industries viz., Micro, Small and Medium Enterprise (MSME), Dawar Footwear, Indu engineering & textiles, Tek Inspirations, Dr. Bhimrao Ambedkar University etc. to enhance skill-sets. Moreover, essential courses like 'Technical Communication' (in 2nd year in all engineering programmes), Professional English (1st year in all engineering programmes), etc. helpful for development of soft skills in our engineering students.



<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>Every year, university provides us an opportunity to conduct induction programme for newly admitted first-year students, where we train students to have knowledge on Indian culture and about Indian knowledge system. Further, in all programmes offered in ECE, university provides essential non-credit courses with full of IKS aspects viz., Constitution of India, Law and Engineering / Indian Tradition, Culture &amp; Society etc., in 3rd year of the programmes. Initially, ECE has started awareness compains on various aspects of IKS for students. Institute houses students from different cultural and state origin thereby the campus harbors diverse culture. The Institute puts all its efforts, to bring unity in cultural diversity and religious harmony through its various events viz., cultural fests, celebration of religious festivals of all religions, etc. The Institute has active cultural club which hosts different programs to reflect cultural diversity in India. We conduct various lectures by the eminent speakers to inculcate cultural integration among our students. We bring awareness among the students about cultural integrity and build healthy relationship among the students irrespective of caste, creed, religion and gender. Also, most recent updation (effective from the session 2022-23 onwards) introduced two essential value added course 'Sports and Yoga' / 'NSS' in first year of curriculum of all engineering programmes.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>OBE is well practiced at the Institute and the IQAC strictly monitors its implementation. Vision of the college, Mission of the college have been formulated and approved by the Governing Council in the college. Program Educational Objectives (PEOs), Program Outcomes (POs), Programme Specific Outcomes (PSOs) of all the programmes running in the college, Course outcome (COs) of the courses of all the programmes have been formulated and the same approved by the Academic Advisory Committees of the departments in the college. The COs of all the courses are mapped with POs. Further, students and faculties are made aware about OBE time to time. The PEOs, POs, PSOs, and COs are frequently discussed in the class and also in Mentor-Mentee meetings. Senior faculty members are conducting seminars/meetings frequently in order to train faculty members to achieve the learning</p>

	outcomes, POs, PSOs, and COs. At the end of each semester, a microanalysis is made in the class and also in the class committee meeting to meet the learning outcomes. Outcomes are measured periodically and there is always scope for improvement.
6. Distance education/online education:	The Institute promotes online education through online internships, online certification courses, NPTEL courses etc. Faculties and students are using online platforms viz., MS Teams, google classroom, e-resources etc., for teaching learning process in blended mode. The Institute encourages the students to participate in online based competitions organized by reputed institutions across India. Our affiliating University AKTU is not providing distance education. We have conducted virtual classes and laboratories during COVID19 & in routine also. We have the expertise and skill for distance education. We are building digital content and infrastructure to ensure the futuristic goal of e-education.

### Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes, in our college, Electoral Literacy Club (ELC) has been formed.
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	The Office Bearers of ELC in the college are: The Faculty Coordinator is Mr. Vinay Gupta, Associate Professor, ASH and Ms. Hina Gupta, Assistant Professor ASH (ELC Additional coordinator). Two students' coordinators are Mr. Shivam Goswami (ELC male student coordinator) and Ms. Nausheen Khan (ELC female student coordinator). Our ELC is highly functional and organizes various awareness programs on electoral process with the primary objective to sensitize the students' community about democratic right and responsibility to cast votes in elections.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of	(1) Under ELC, our students participate in voter awareness campaigns aimed in educating the public in the nearby villages, (2) ELC undertakes short presentations sessions to create awareness and interest among faculties and students, (3) ELC educate the targeted populations about voter

<p>poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.</p>	<p>registration, electoral process and related matters through hands on experience.</p>
<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p>	<p>The ELC takes initiatives that are socially relevant to electoral related issues especially awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes. Our ELC organizes (1). Various awareness programs on voting rights, voting procedure in nearby adopted villages, (2) Awareness poster presentations have been made by our students during recent elections in the state.</p>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p>	<p>It is to state that all our students above 18 years age are sensitized and motivated to enroll as voters and special camps are being organized for enrollment.</p>

## Extended Profile

### 1 Students

#### 1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
481	545	404	405	391
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 2 Teachers

#### 2.1

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

Response: 123

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

#### 2.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
56	56	58	59	80

### 3 Institution

#### 3.1

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

2021-22	2020-21	2019-20	2018-19	2017-18
394.77	377.41	424.20	443.11	472.27
File Description		Document		
Upload Supporting Document		<a href="#">View Document</a>		



## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

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

##### Response:

The College is affiliated to Dr. A.P.J Abdul Kalam Technical University (AKTU), Lucknow, and follows the curriculum prescribed by the University. At the beginning of every academic semester, Dean Academics in consultation with HODs prepare and disseminate the college academic calendar strictly in accordance with the evaluation scheme and academic calendar of AKTU.

HODs convene meetings with faculty members and allocate the work load as per their specialization and experience. Departmental time-table coordinators prepare departmental time-table and Institute's timetable committee prepares a master timetable. Academic calendar, time table and class wise time table are displayed on the noticeboards and are strictly followed without any lapse.

- All faculty members prepare lesson plans, syllabus breakup and course files with detailed contents in accordance with university criteria and get approval from HOD.
- At the commencement of academic session, faculty members introduce their course including syllabus contents, course outcomes, teaching pedagogy and the evaluation scheme to their students.
- Classes are strictly conducted to deliver the prepared content as per the initially prepared lesson plans. HODs, Dean Academics, and Director regularly monitor the progress of classes to ensure syllabus coverage timely.
- All the laboratories in each department are well equipped with experimental setup and lab manuals for all the experiments. The faculty in-charges are directed to follow the SoPs to conduct the experiments.
- Guest lectures, Add on courses, industrial visits, industrial trainings as a routine practice in the Institute provide opportunity to the students to cope with changing world.
- The institute is well equipped with smart virtual classrooms with other ICT facilities which further ensure effective delivery of the curriculum.
- At the end of teaching session, the internal academic/administrative audit of all departments is jointly conducted by IQAC and Dean Academics to ensure that the curriculum content is delivered effectively.

##### Adherence to academic calendar and conduct of continuous internal Assessment

- Continuous evaluation through class tests, three internal examinations CT1, CT2 & PUT, and lab viva for monitoring students' performance before appearing in final exams.
- Exams are conducted centrally by exam cell & marks obtained by each student in these tests and assignments are recorded in record lists maintained with the concerned teacher.
- Results of internal exams are declared within 2 days. The evaluated answer books are distributed to the students, grievances are handled about evaluation (if any). Duly signed answer sheets by the students are collected and deposited in central exam cell.

- Monitoring students' performance through this continuous internal evaluation system helps course faculty to take actions accordingly, if required any, e.g. scheduling remedial classes etc. At semester end, the end-semester examination is conducted and managed by the University. Working days are strictly followed as per university guidelines and designed academic calendar.
- The internal assessment in laboratory/practical courses is continuous and the performance of the students is evaluated on continuous basis based on attendance, regularity, procedure, results obtained, viva and promptness.
- Various academic activities like project exhibition, industrial training presentations schedule, project assessment are conducted on same dates as reflected in the academic calendar.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

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

**Response:** 43

File Description	Document
List of students and the attendance sheet for the above mentioned programs	<a href="#">View Document</a>
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Evidence of course completion, like course completion certificate etc. Apart from the above:	<a href="#">View Document</a>

### Other Upload Files

1

[View Document](#)

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

**Response:** 70.84

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

2021-22	2020-21	2019-20	2018-19	2017-18
354	321	282	312	308

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 1.3 Curriculum Enrichment

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

##### Response:

University prescribed curriculum, of various programs offered in the Institute, have many core/elective courses which inculcate the sense of responsibility and accountability in students towards the society and encourage the human values and professional ethics in them.

- Universal Human Values & Professional Ethics (RVE301/RVE401), 3rd semester, B.Tech all programs
- Constitution of India, Law and Engineering (KNC501/KNC601), 5th Semester B.Tech programs
- Cyber Security (RUC501/RUC601), 5th/6th sem, B.Tech programmes
- Cyber Security and Laws (MTCS035), Professional Aspects in Software Engineering (MTCS053), M.Tech CSE
- Technical Communication (KAS301), B.Tech, 2nd year all branches
- Soft Skills I (KNC101), B.Tech. 1st Sem, all branches
- English Language Lab (KAS154P) B.Tech 1st semester all branches
- English Language Lab (KAS254P) B.Tech 2nd semester all branches
- Soft Skill II (KNC201) B.Tech 2nd semester all branches

##### Courses to address Gender issues, rights & Law:

Following courses of the curriculum aware the students about the culture, societal and Gender issues:

- Following three courses offered as open elective courses, B.Tech programmes, 7th Sem, 2019-20
  - Understanding the Human Being Comprehensively Human Aspiration Audits Fulfilment' (ROE074)
  - Human Values in Madhyasth Darshan (ROE087)
  - Values, Relationship & Ethical Human Conduct-For a Happy & Harmonious Society (ROE088)
- Following four courses included as 'Revised Open elective I' Courses for all B.Tech programs in 7th Semester [Effective from 2020-21]



- Human Values in Sankhay Yoga And Vedanta Darsan (ROE070)
- Understanding The Human Being Comprehensively - Human Aspirations and its Fulfilment (ROE074)
- Human Values in Buddha and Jain Darshan (ROE080)
- Following course having common syllabus, all branches, B.Tech, 3rd year, (Effective from 2018-19)
  - Sociology (RAS502/RAS602)
- Common NC Courses, all B.Tech branches, 5th & 6th semester [Effective-from 2020-21]
  - Constitution of India, Law and Engineering (KNC501/KNC601)
  - Indian Tradition, Culture and Society (KNC502/KNC602)

#### **Courses to address Environment and Sustainability:**

- Environment & Ecology (RAS302/RAS402), 4th semester B.Tech all programs
- Renewable Energy Resources (ROE086)
- Geo-environmental Engineering (RCE053), 5th Sem, CE
- Environmental Engineering (RCE602) [KCE603, revised AICTE curriculum, 6th Sem, CE
- Integrated Waste Management for a Smart City (REC062), 6th sem, CE
- Environmental Engineering Lab (RCE652), 6th Sem, CE
- Transportation Engineering (RCE603), 6th Sem., CE
- Transportation Engineering Lab (KCE651) [revised AICTE curriculum], 6th Semester, CE
- Sustainable Construction Methods (KCE 071), Elective course, 7th sem, B.Tech., CE
- Solid Waste Management (KCE 074) as Elective course, 7th semester, B.Tech, CE
- Disaster Preparedness and Management (KCE 079), Elective course, 7th semester, B.Tech, CE
- River Engineering (KCE062), B. Tech., 6th Semester, CE [Effective from 2020-21]
- Air and Noise Pollution Control (KCE057) B. Tech. 5th Semester CE [Effective from 2020-21]
- Power Plant Engineering (REE401), 4th Sem., EE

In addition, multiple workshops have been organized to inculcate UHV among students and faculty. Value Education (VE) Cell of the College also constituted to familiarize and equip students, faculty and staff to the importance and need of values & ethics for the development of self & society. Our faculty participation in UHV workshops at other colleges also strengthen our value education initiatives. Code of Professional Ethics is displayed on college website and notice boards.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

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

**Response:** 61.95

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

Response: 298	
File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>

## 1.4 Feedback System

<p><b>1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website</b></p> <p><b>Response:</b> A. Feedback collected, analysed, action taken&amp; communicated to the relevant bodies and feedback hosted on the institutional website</p>	
File Description	Document
Feedback analysis report submitted to appropriate bodies	<a href="#">View Document</a>
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	<a href="#">View Document</a>
Action taken report on the feedback analysis	<a href="#">View Document</a>
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Enrolment percentage

**Response:** 24.99

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

2021-22	2020-21	2019-20	2018-19	2017-18
93	77	77	84	124

##### 2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
309	384	384	393	351

#### File Description

#### Document

Institutional data in the prescribed format

[View Document](#)

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

[View Document](#)

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

[View Document](#)

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

**Response:** 34.17

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

2021-22	2020-21	2019-20	2018-19	2017-18
60	49	55	59	90

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

2021-22	2020-21	2019-20	2018-19	2017-18
155	192	192	198	179

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	<a href="#">View Document</a>
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule ( Translated copy in English to be provided as applicable)	<a href="#">View Document</a>

**2.2 Student Teacher Ratio****2.2.1 Student – Full time Teacher Ratio  
(Data for the latest completed academic year)****Response:** 8.59**2.3 Teaching- Learning Process****2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process****Response:**

Following students' centric methodology cum important activities of the institute adhere our students to think out of the box:

**1. Experiential Learning**

- **Project work:** Mandatory Project I & Project courses in curriculum of all programmes
- **Extensive laboratory courses** in prescribed B.Tech. curriculum where students learn from faculty/staff/own experience to draw conclusions after conducting experiments
- **Internship/field projects in industry during industrial training as a part of curriculum in all programmes**

- **Tutorials** are an integrated part of the time table
- **Participation in competition at various level:** For Real time exposure students are encouraged to participate in competitions
- **Industrial Visits:** Departments Plan and Organise the industrial visits for students to provide exposure to industrial work culture
- **Guest Lectures:** Guest lecture by eminent experts from industry and academics in each semester

## 2. Participated Learning

- **Role plays:** Teachers adopt role play method especially in 1st/2nd year to supplement teaching by way of participative learning
- **Team work:** All Departments organize students' activities & competitions in groups to promote the spirit of team work
- **Group work:** Practicals and workshops in all individual and group work under the guidance of teachers
- **Project presentation** by students in groups

## 3. Problem solving Methodology

- Well-equipped laboratories with enormous laboratories practical work of all engineering programmes acts as platforms to solve problems and find outputs/ solutions
- Developing problem identification & solving ability among students by organizing special value-added certificate events/courses in each semester
- Developing entrepreneurship attitude/ abilities of students through participation in entrepreneurship camps

### Teaching Pedagogy adopted in the institute finds enormous use of ICT tools in following ways:

- Online Academic Monitoring System (Affiliating University provided Remote access to college)
- Planning and controlling academics using Eshan Learning Management System (LMS)
- e-Learning: Teachers prepare Power point presentations and share with students in classes and through other sharing tools
- Teachers are using Projectors for delivering e-content (PowerPoint presentations)
- Teachers also use of Microsoft Teams (MS Teams) for managing teaching learning
- Group Discussions, Quizzes (Using google forms) & online website links for conducting quizzes
- Interactive methodology in all classes, with a focus on discussions and short presentations by students in front of other students
- Search engines, e-books, Searching & reading Latest Content from Magazines, Journals & Conference Papers available in Institute Library
- Teachers share with students the important Links and databases resources such as NPTEL, INFLIBNET etc having digital contents freely available for Students
- Audio Visual Room viz. e-Lecture Recording Room (For e-Content) (Media Room) is made available in campus for record the lectures by teachers
- The library also has AKTU – Consortium with all e-resources (e-Books, e-Journals: Remote learning) for faculty and students. It also has a separate multimedia section with internet connectivity for accessing e-content.
- Subscription of DELNET in the college library to make for digital content available for students
- Use of multimedia/ LCD projectors & other ICT facilities in conference rooms/seminar halls of

college by teachers for delivering presentations

- Distribution of Smart Phones (Mobiles) by the management of college to economically weak students for ease of e-learning (Online learning)

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

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

**Response:** 83.51

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

2021-22	2020-21	2019-20	2018-19	2017-18
66	67	67	70	100

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	<a href="#">View Document</a>

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

**Response:** 7.12

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

2021-22	2020-21	2019-20	2018-19	2017-18
5	3	4	4	6

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	<a href="#">View Document</a>
Institution data in the prescribed format	<a href="#">View Document</a>
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

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

#### Response:

#### A transparent examination system is developed in this college:

- Formation of exam committee Members - HoD's, Deans & Director.
- Circular, Guideline, Office Order, Notification received by the Dr. A.P.J. Abdul Kalam Technical University (AKTU) are dispatched to all departments with Director's signature.
- Registrar's office & Dean Academic's office is responsible enough in distribution of consolidated mark sheet, provisional and degree certificates to students.

#### Conduct of Internal Assessment Test (CT) / Pre-University Examination (PUT)

- Conduction of two Internal Assessment Tests (CT-I, CT-II) and one pre-University test (PUT) for all programmes as per academic calendar.
- Course handling faculty are directed to prepare question papers (2 sets for each class test & 2 sets for IUT) as per IQAC directions.
- Question paper selected by HOD concerned in consultation with Dean Academics.
- Preparation of Invigilation duty, room seating arrangements in exam cell under supervision of COE
- Formation of Monitoring / Enquiry committee for the examinations under the direction of Dean Academics.
- Results are analyzed, timely.
- Assessment mark entry in University web portal is done periodically.

#### Procedure for Conducting University Practicals / Viva Voce Examinations

- Conducting University practical examination for each semester, circular is sent by Dean Academics & COE to all HODs for the details of internal examiners and university appoints the external examiner for each practical lab / viva voce.
- The practical examinations are conducted batch wise. The External / Internal examiner set the question papers, value the answer scripts and award marks.
- The mark statements are initially prepared and uploaded on portal provided by affiliating

university, printed, signed by both the examiners and it is sealed in separate covers and handed over to the Exam Cell.

- The external & internal examiners conduct the viva voce for the project as per AKTU university protocol.

### Conduct of University Theory Examinations

- Registered students are permitted to appear for semester examination as per AKTU University regulations.
- End semester exams for odd semester are in Nov./ December each year.
- End semester exams for even semester are in April / May each year.
- As per rules of affiliating university, external examination is scheduled in nearby other colleges under the supervision of superintendent appointed by affiliating university for conducting examinations
- Examination schedule and fee circular are displayed on Notice boards by Exam Cell.
- Question papers are issued by the University in sealed covers and opened just before the scheduled time to start the exam.
- Any malpractice of any student (if any) is booked and reported by the Superintendent to the University COE.
- The University releases circulars to inform the commencement of marking/ evaluation of answer scripts through university portal.

### Students Grievances:

- Grievances identified in internal examinations for the student are rectified by class incharge, HOD and reports sent to Director office via Dean Academics.
- Grievances identified regarding AKTU end semester Examination such as applying photocopy of answer scripts, revaluation and review process for the results obtained, other grievances like correction in the grade sheet (DOB, printing mistakes, duplicate grade sheet, etc.) are rectified by CoE of affiliating University.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

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

### Response:

The Process has outlined the learning objectives for each of its academic programmes and courses in great detail. The goals of Outcome Based Education (OBE) following extensive consultation with all the faculty



members. COs are straight forward declarations that outline the fundamental and enduring discipline knowledge, the skills students should have, and the level of learning expected at the end of a course. The course outcomes are provided by the university and each course in the program consists of five course outcomes. They are clearly specified and communicated. Finally, they are discussed in the meeting course-wise and approved.

Students are also educated and provided with the detailed syllabus and course outcomes in each course and the assessment strategy for each course.

Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes are made aware through the following procedures.

- POs and PSOs are approved by the Department Academic committee (DAC) POs and PSOs are available in the Institute website.
- POs and PSOs are posted in corridors, classrooms Department office, Laboratories and library of the campus for staff, students and public view.
- During the department review meeting the attainment of COs, POs and PSOs are reviewed among the faculty members.
- At the DAC meeting the corresponding faculty members discuss the assessing methods of each course outcomes and prepare the mapping with the POs and PSOs.
- In the second DAC meetings the CO attainment level are checked.
- The POs and PSOs relevant feedback has been collected from the parents during Parents- Teachers Meeting.
- Even though the COs is given by the AKTU University along with the syllabus, if necessary, the COs are modified and reframed by the course teachers in consultation with HOD in our college. DAC analyze the course outcomes and their mapping with program outcomes and program specific outcomes done for each course by the course teachers. Course Outcomes (COs) are reviewed and finalized in DAC meeting (if faculty want to change the CO given by AKTU). COs are communicated to the students during the introduction class itself. COs along with lesson plan are printed and issued to the students during the first class and also posted in website. During the class committee meetings the COs attainment levels are discussed and the measures how the outcomes of the course are calculated are discussed. During the commencement of each semester and after the completion of the semester, the course outcomes evaluating methods are reviewed.

### Attainment of Course Outcomes

Assessment is carried out by the department periodically to identify, collect, analyze and evaluate the data towards the achievement of Course Outcomes (CO). For the calculation of CO attainment, data from various theory Course, lab Course and project Course are taken into consideration. For all the courses, weightage is given for both Internal Assessment and external Assessment. The process for course outcome assessment is given in manual prepared for OBE in the college.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

**2.6.2 Attainment of POs and COs are evaluated. Explain with evidence in a maximum of 500 words****Response:**

Eshan college of Engineering (ECE) values the assessment of teaching and learning activities which is validated through distinct mechanisms. Institute developed a proper printed manual in the institute to guide the teachers how to calculate the course outcomes, programme outcomes, programme specific outcomes in the college. The same is describing all the formulaes and procedures how to calculate these parameters. Copy of the same is uploaded on the college website. It follows two different strategies to validate Outcome Based Education through direct and indirect methods. In the first stage, Course Outcomes (COs) are mapped with the respective Programme Outcomes (Pos) and Programme Specific Outcomes (PSOs). The mean value of mapping indicates how COs are related with POs and PSOs.

In the second stage, the Course Outcomes with Programme Outcomes and Programme Specific Outcomes are validated through examination system. The course outcomes reflect different cognitive levels of each course. It is done on the basis of Revised Bloom's Taxonomy by the affiliating University (AKTU) and is revised (if needed) by course teacher in consultation with DAC members. The students' ability to remember and understand are tested through Short Answer Questions, Quizzes, and Oral Tests, whereas their ability to apply, analyse, evaluate and create are assessed through large (essay Type) Questions, Assignments, Practical Examinations, Field Report, Internship and Project Works.

To calculate the examination attainment levels of the courses, ECE College fixes the targeted value of COs for both Continuous Internal Assessments and final end semester examinations. Continuous Internal Assessments and the end semester Examinations are weighted in OBE in this college. Later, the examination attainment of Course Outcomes is estimated as the sum of Continuous Internal Assessment weightage multiplied with targeted value and the Summative weightage is multiplied with that of Summative Examinations.

In the third stage, the College assesses the direct attainment of each Course Outcome (CO) with Programme Outcomes (PO) and Programme Specific Outcomes (PSOs) using the described in attached outcome-based manual in this SSR.

In the indirect method, the Course Outcomes with Programme Outcomes and Programme Specific Outcomes will be validated through feedback mechanism.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

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

**Response:** 86.64

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

2021-22	2020-21	2019-20	2018-19	2017-18
117	157	90	75	54

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

2021-22	2020-21	2019-20	2018-19	2017-18
145	175	103	87	59

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1 Online student satisfaction survey regarding teaching learning process

**Response:** 3.74

File Description	Document
Upload database of all students on roll as per data template	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

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

**Response:** 0

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

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	0	0

**File Description**

**Document**

Institutional data in the prescribed format

[View Document](#)

### 3.2 Innovation Ecosystem

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

**Response:**

ECE has established the knowledge generation, transfer ecosystem through the various MOUs. To achieve the goal, to become as the entrepreneurship start up and ideation hub, ECE has signed the MOUs with various firms, to conduct various skill development programs in turn achieve the goal to make the students as future entrepreneurs. Through innovative ideas and suggestions for solving pressing issues, the academic capabilities of ECE continuously contribute to the Innovation Ecosystem and inspire students to become entrepreneurs. ECE often conduct awareness programs for first year and all other students to enhance the innovation, creative and design thinking ideas of students and develops it into projects. Similarly, ECE provides the space to do start-up and rendering help in terms of sharing equipments and materials available in the labs to students. To achieve the goal of entrepreneurship, ECE continuously organizing guest lectures, seminars and workshops, motivational talks for students, faculty and alumni to promote Entrepreneurial Culture. It provides a platform for students to develop innovative projects and to generate business opportunities. Through these initiatives, institute expects a good contribution for entrepreneurship. Faculty member of ECE closely monitors the projects of students to generate entrepreneurship ideas. The students have access to the library of ECE. Students have actively involved in the area of finding the new solutions as part to full fill their academic credentials through their projects. Students are having opportunity to work in industries for internships where they have equal scope for starting entrepreneurial tasks.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

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

**Response: 27**

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

2021-22	2020-21	2019-20	2018-19	2017-18
7	5	4	5	6

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>

## **3.3 Research Publications and Awards**

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

**Response: 0.03**

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

2021-22	2020-21	2019-20	2018-19	2017-18
2	1	0	0	1

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>

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

**Response: 0.15**

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

2021-22	2020-21	2019-20	2018-19	2017-18
9	1	1	2	5

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	<a href="#">View Document</a>

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

Through the conduct of extension activities, our students are inclined more towards the social works like their orientation to participate in government started schemes like Swachh Bharat, AIDS awareness, Gender issues as well as to know about the NGOs working in this direction in this area. Their involvement in community development areas is now more. Moreover participation in various activities organized in college itself like safai abhiyaan, working in peer groups is increased as an outcome of extension activities. Moreover, institute adopts nearby school where school students get benefitted from our institute.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

**3.4.2 Awards and recognitions received for extension activities from government / government recognised bodies****Response:**

We at ECE have not only scored good performance in academics alone, in the view to create the holistic environment, through extension activities our Eshan club and departmental societies are anticipating various social awareness programs in the name of extension activities. Our students are regularly participating in various activities in the institute and nearby places. Moreover, institute is conducting social and extension activities in association with various NGOs and various nearby societies working in social activities. Special recognitions from local authorities and agencies are awarded to our institute.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

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

**Response: 56**

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

2021-22	2020-21	2019-20	2018-19	2017-18
35	3	5	5	8

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

### 3.5 Collaboration

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

**Response: 23**

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

#### 4.1.1 The Institution has adequate infrastructure and other facilities for,

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

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

#### **Response:**

Institution located at main highway (Mathura-Agra Highway). It caters to the needs of stakeholders, has excellent infrastructural facilities spread over 11.52 Acres of land with 17994.01Sq.m. built up area.

#### **Classrooms**

The Institute has well-furnished, spacious and well ventilated 26 classrooms which are also well illuminated. Classrooms are maintained as per norms for proper visibility and audibility. The classrooms are equipped with adequate furniture, blackboard, projectors, fans, lights and power backup.

#### **Laboratories**

The Institution has domain centric 46 laboratories as per the regulations of AICTE. Adequate and well maintained equipment to conduct experiments is provided. Sufficient safety measures are incorporated and displayed at strategic locations in the laboratories

#### **Seminar Halls and Conference Hall**

The college has two seminar halls and one conference hall to conduct seminars, conferences, guest lectures, workshops and cultural programs for students and faculty. All seminar halls are equipped with LCD projectors, whiteboards, raised platforms and public address system with internet facility.

#### **Computing Equipment**

The institution has 135 computers. Computer laboratories are installed with open source software.

#### **Transport, medical and canteen facilities**

The institute provides transport facilities for the students and staff from and to various parts of the city. College dispensary provides first aid facilities. The institute has a tie up with a nearby hospitals for any medical emergency. Canteen facilities are also provided for students & staff where food served is hygienically prepared and subsidized.

#### **Internet**



60 Mbps dedicated leased line Internet facility is available to cater to the academic & research needs of the Campus.

Curricular and Co-curricular activities impart new and meaningful dimensions to the students' personality and thus fulfil the desired purpose of education and learning.

### **Cultural Facilities:**

Besides academic pursuit, we encourage students to achieve all round personality development. College regularly conducts Cultural activities under Harmony, Jhankar, ADIOUS( Farewell). The students have the opportunity to demonstrate and develop their leadership and decision making skills. The Activities impart good human values to them by organizing different types of cultural Events like Student Induction Program (SIP), Fresher's party, Farewell Party, Important festivals like Deepawali, Holi, Kite festival(Basant Panchmi), Republic Day, Independence day, New Year Celebration, etc. In intercollege competition the Faculty plays a key role in guiding and nurturing students to achieve their best in non-technical activities. The organization has good record of achievements made in various cultural activities.

### **Sports and Games:**

Organization has formed Eshan Sports Academy (ESA) under which all physical activities are organized from time to time. Volleyball, Cricket, Football, Badminton, Track for Athletics, long Jump, Javelin throw, Shot put, Tug of war are some of outdoor games. Some of Indoor games like Chess, Carom board, Table Tennis Tables are commonly played.

The students are encouraged to practice and participate in inter-collegiate, inter-university state level and national level competitions. The mega sports event **Annual Sports event** is conducted along with some of the events held regularly in hostel in the institute.

### **Gymnasium:**

A fully equipped gymnasium is available for hostel students staff members. It is popular spot for both sports enthusiasts and the health-conscious ones

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

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

**Response: 16.5**

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

2021-22	2020-21	2019-20	2018-19	2017-18
8.88	42.32	105.26	94.91	97.04

  

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

## 4.2 Library as a Learning Resource

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

### Response:

The Library at Eshan College of Engineering is integrated knowledge resource centre comprising, a Central Library in an area of 580 sq. m., with nearly twenty thousand six hundred eighty four (20684) books, periodicals, references, national and international journals. It has provisions of air conditioning and LED lights along-with the natural lights. It has a sound collection of books, periodicals and e-resources which are well organized and classified. The library premises is also Wi-Fi enabled and also under CCTV surveillance through high resolution IP cameras. It is automated using Integrated Library Management System (ILMS) computerized with in-house developed Software. It has access to more than 200 free e-journals. It also has access to Journals through e-shodh sindhu program of INFLIBNET. The library has also purchased access to DELNET under institutional membership. All e-resources are accessible locally within the campus. Library building is well laid out and maintains the right atmosphere for learning. Library buildings have provision for both individual and group studies. Adequate space is provided for browsing and relaxed reading. It subscribes nine magazines and six newspapers and 40 e-newspapers for general reading. Besides these, the Library is also equipped with the latest PhD thesis through Shodhganag. Library has adequate number of terminals to facilitate searching/accessing e-resources, web browsing and for other academic work. Provision has also been made to allow downloading/printing of material from these resources.

The books and other reading materials are issued to the college students for reading room study from the issue counter. The Catalogue of the College Library is available on intranet for search. Over 100 students, teachers and other members visit the Library almost every day. A register is maintained in the library and the visitor has to show his valid identity card at the entrance. The library offers photocopying service to

students and staff on nominal charges.

The College Library is also equipped with fire extinguishers. It has excellent ICT infrastructure with adequate bandwidth for fast and seamless access to Internet. It is also member of DELNET & ICT ACADEMY. Initiatives taken by the College, are the following :

1. Free WI-FI, internet access, download and printout facility have been provided.
2. Reprographic facilities.
3. Organization of Book Exhibitions/Display of new books.
4. Proper system of feedback from users to improve library services.
5. System of recommendation for purchase of books through Departments.

**E-Books :** The College Library has free 500 **e-books** of different branches of studies and are accessed in the College. In addition, AKTU Library has also subscribed e-books for different fields which can be accessed on college LAN.

### College Book Bank

The Book Bank of Eshan College of Engineering, It was established with the objective of helping

A student can become the member of the Book Bank once in an academic year. This section is running with the collection received from the students on **no loss no profit basis**.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

## 4.3 IT Infrastructure

**4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection** *Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words*

### Response:

Use of technology in education is steadily transforming the whole concept of education delivery. Eshan College of engineering has created stable IT infrastructure and consistently upgrades it to support advance teaching, learning & research experiences.

With the introduction of new subjects in the curriculum by the university, the institutes have taken quick

action and upgraded the labs with the systems with latest configuration.

Both the staff members and the students can access the facility of internet freely through their mobile phones, tablets or laptops in the institutes as well as in hostels.

Dedicated leased line Internet facility with a bandwidth of 60 Mbps is available to cater to the academic & research needs in the campus. The entire campus is Wi-Fi enabled. The activity in the institute are under video surveillance with 31 cameras.

Dedicated server is available for accessing Eshan College- Learning management system by faculty and staff members.

The IT Policy applies to the resources administered by the administrative departments such as Library, Computer Laboratories and Offices of the Institution wherever the network facility is provided by the Institution.

Further, the entire faculty, students, staff, departments and others who may be granted permission to use the IT Infrastructure must comply with the guidelines. Certain violations of IT policy laid down by Eshan institution member may even result in disciplinary action against the offender by institution authorities.

The Acceptable use policies are applicable to Employees, Students, and Vendors & Visitors. Proper procedures and policies have been framed like Procurement, Installation of Hardware, Network and software. E-mail account has been facilitated to employee under E-mail Use policy which is reviewed and maintained whenever the modification happens. Website Hosting and Database Usage policy has its method and hierarchy which is followed systematically.

Eshan College has proper budgeting process to arrive the IT budget needs of every department. Once the IT budget is finalized, the approved budget is consolidated at Management level.

Understanding the demands of faculty and students to use digital media for their research, teaching & learning process, dedicated media room is available for development of e-content for students. These contents are uploaded on institute youtube channel.

IT expansion is done based on assessing the requirement and also understanding the need of implementing the best of the breed technology to support the teaching and learning process.

Signages are placed at the major junctions in the institute that continuously displays information regarding, any upcoming events, photographs of the completed events, campus news and awardee photographs.

Parameter	2012-17	2017-22
Internet and Wi-Fi Bandwidth	30Mbps	60 Mbps

File Description	Document
Upload Additional information	<a href="#">View Document</a>

#### 4.3.2 Student – Computer ratio (Data for the latest completed academic year)

**Response:** 3.56

##### 4.3.2.1 Number of computers available for students usage during the latest completed academic year:

**Response:** 135

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	<a href="#">View Document</a>
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	<a href="#">View Document</a>

### 4.4 Maintenance of Campus Infrastructure

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

**Response:** 13.58

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

2021-22	2020-21	2019-20	2018-19	2017-18
75.28	55.95	50.12	55.49	49.85

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	<a href="#">View Document</a>

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

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

**Response:** 100

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

2021-22	2020-21	2019-20	2018-19	2017-18
481	545	404	405	391

File Description	Document
Year-wise list of beneficiary students in each scheme duly signed by the competent authority.	<a href="#">View Document</a>
Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).	<a href="#">View Document</a>
Upload policy document of the HEI for award of scholarship and freeships.	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

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

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

**Response:** A. All of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	<a href="#">View Document</a>
Report with photographs on ICT/computing skills enhancement programs	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

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

**Response:** 99.91

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

2021-22	2020-21	2019-20	2018-19	2017-18
481	545	404	405	389

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

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

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

**Response:** A. All of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	<a href="#">View Document</a>
Details of statutory/regulatory Committees (to be notified in institutional website also)	<a href="#">View Document</a>
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 5.2 Student Progression

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

**Response:** 74.69

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

2021-22	2020-21	2019-20	2018-19	2017-18
120	121	83	59	42

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

2021-22	2020-21	2019-20	2018-19	2017-18
145	175	103	87	59



File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	<a href="#">View Document</a>
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

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

**Response:** 22.92

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

2021-22	2020-21	2019-20	2018-19	2017-18
12	11	4	1	5

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## **5.3 Student Participation and Activities**

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

**Response:** 32

#### **5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last**

*five years*

2021-22	2020-21	2019-20	2018-19	2017-18
2	0	13	10	7

File Description	Document
Upload supporting document	<a href="#">View Document</a>
list and links to e-copies of award letters and certificates	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

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

**Response:** 42.4

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

2021-22	2020-21	2019-20	2018-19	2017-18
47	34	39	46	46

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 5.4 Alumni Engagement

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

**Response:**

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

The Institute has a registered Alumni Association for building strong bond between alumni and present students. They assist in arranging training and placement activities of the undergraduates and also donate

books to the library. They share their experience and knowledge about working atmosphere of companies. They also help in placing students in different companies and even help them and give guidelines regarding training in different companies.

*“An institution’s alumni are the reflection of its past, representation of its present and a link to its future.”*

Alumni are the brand ambassadors in the sphere of education all over the globe. Over the years, the college has produced thousands to achieve their goals with character, personality, intellect and great value for the Alma mater as a prestigious educational institution.

One of the chief focuses of alumni associations is to create a network of previous graduates who will, in turn, support to promote the profile of their juniors across the Globe. They counsel their subordinates about the career opportunities available in the industry, higher learning, government sectors etc.

Besides, our Alumni have contributed both financially and also contributed to continuously share their experience in industry and deliver experts talk. They have potential to take an active and abiding interest in the work and progress of the institute in different ways and scale.

In the final year of their studies, students must seriously identify their career prospects. So, our Alumni encourage the students to gain practical learning or work experience in the institutions. Moreover, our Alumni share their knowledge and experiences through their motivational talk with our existing undergraduates in various fields. They also assist the juniors to tackle the various technical and job oriented problems. Through this method, they benefit in strengthening their confidence, improve enthusiasm and inculcate the right culture in line with what our institute intends to convey to our students.

They are continuously in touch with Training and Placement Cell and give active support in arranging industrial visits, industrial training and placement drives for the students.

In the various geographical areas, our Alumni have already been established, which not only provide a warm welcome to the juniors on their entrance to a fresh place at the time of joining their new profession, but also provide the initial support which is necessarily required for initial settlement and transit. They organize regular interactions at their specific locations round the year and update their Alma Mater using various social platforms.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

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

#### **Response:**

To fulfill its Vision and Mission, the Institutes', Core Team consists of qualified and professional personalities who have vast experience in the field of administration, academics and research.

The leadership at the Institutes is provided by the Director who is an eminent academician, who is ably assisted by Deans, HOD's and Institute's Administration. The Institutes seek to assist students to develop an understanding and appreciation for the complex cultural and physical world in which they live and to understand their highest potential of intellectual, physical and human development.

The faculty members are involved in framing policies in various decision-making bodies of the Institute. There is a practice of conducting brainstorming sessions at the Department and Institute levels before finalizing any policy. All events are organized with the help of various committees at the faculty and students level.

Institute has many committees with different roles for the effective implementation of various academic and non-academic matters.

#### **Decentralized Management**

1. At the level of Society: The Chairman & the members of the managing committee are intellectuals, educated and learned personalities. With their influential guidance, the management has accomplished its task of building up good teaching-learning processes. The management of the institution is highly responsive toward the indispensable needs and aspirations of the faculty and students.
2. At the level of the Institute: Director is the academic and administrative head of the Institute. He manages and monitors all the academic & administrative activities.
3. At the level of the Department: HODs are responsible for all the academic and administrative activities in their respective departments and report to the Director. HODs constitute departmental committees to carry out departmental activities smoothly. Students are given opportunities to act as student coordinators of different technical/non-technical events and clubs.

#### **Participative Management**

1. Strategic Level: Director, Registrar and HODs are involved in framing policies, procedures, rules & regulations.
2. Functional Level: Faculty members ensure effective curriculum delivery along with participation in various academic & non-academic activities.
3. Operational Level: The head of the department at the program level is responsible for assigning the

courses to the faculty in the department based on their expertise and need. While one of the courses is assigned by the HOD, the other course is left to the choice of the faculty. HODs also ensure that the academic calendar is followed and academic discipline is maintained at all levels in the delivery of course content, conduct of examinations, assessment etc.

- At the classroom level, one of the teaching faculty members is designated as a class coordinator. The class co-coordinator is responsible for monitoring the academic needs of the students.
- The mentor program is in implementation at the college level for all students. 20 students are assigned to each faculty member. These Mentors interact with the students and parents and address all their academic and personal needs for overall development.
- In order to assess the faculty performance and continuous improvement in the teaching-learning process, feedback is taken every year from the students.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

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

### Response:

Eshan College of Engineering is recognized as one of the best engineering institutions on Mathura-Vrindavan-Agra Region. It was founded by the members of Lord Shiva Trust in 2009. The institute is affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow. Eshan College of Engineering has a well-defined organization structure. A brief description of governing council, various functional bodies and functionaries is mentioned as below:

**Governing Council** is responsible for framing the rules, regulations and policies of the institute. The governing council approves appointments made during the academic year, approves allocations of budget and plans proposed by heads of different departments for continuous growth of the Institution.

**Director** is responsible for providing guidance and helps in planning, implementation and monitoring of all the academic activities, and make sure that these are aligned with the established policies and objectives of the organizations. The Director is committed towards planning and implementation for continuous improvement and growth of the organization and is supported by other functionaries of the Institute.

**Registrar** functions include, recruitment of faculty members as per the AICTE norms, annual review of faculty performance in teaching, research and their overall contribution to the Institute, attendance and leave management, rolling out training & development programs for Staff members, reward and recognition, employee record documentation. Registrar Office also looks after transportation, library,

maintenance & housekeeping work. Accounts In charge, Admission In charge and administrative officer also reports to the registrar.

**Dean Academics** is responsible for preparing academic calendar, academic policies, monitoring of classroom teaching, students' feedback and analysis, conduct of internal and external examinations, analysis of examination results and frame strategy for better performance in future examinations, analysis of attainments of outcomes of all the programs and other activities required for smooth functioning of teaching learning process.

**Head of Department:** HODs coordinate all the academic and administrative activities in their respective departments. HODs constitute departmental committees to carry out departmental activities smoothly. HOD is responsible for preparing departmental calendar, budget, new requirement etc. and to coordinate with institutional administrative body.

**Training & Placement Officer** assists in training & placement of students in various Industries/Organizations in India and abroad & conducts programs for Personality Development, Improvement of Communication skills and Career Guidance.

**Policies:** Institute has policy documents for Admission, Recruitment, Staff welfare, Research, Promotion, Grievance etc, for its procedural running.

### Strategic Plan

**Some of the plans (partial list due to word limit of 500) of the Institute are as follows: (Strategic plan for 10 years is attached)**

- To Modernize existing infrastructure conducive to the Teaching & Learning process.
- To encourage & create an ecosystem within campus for existing faculty members to obtain Ph.D qualification.
- To introduce new UG & PG Programs and increase the intake of students in existing programs.
- To encourage students to become entrepreneurs.
- To make use of technologies for providing skill sets and additional self-learning.
- To collaborate with international/National institutions of higher learning & research organizations
- To establish collaborative laboratories with the support of industry.
- To get Autonomy

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Institutional perspective Plan and deployment documents on the website	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

### 6.2.2 Institution implements e-governance in its operations

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

**Response:** A. All of the above

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

### 6.3 Faculty Empowerment Strategies

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

**Response:**

Realizing that satisfied employee is an asset for the institution, the institute has constituted proper faculty and staff centric policies to give them enough motivation and encouragement to get involved in the development of academic ambience of the institute through innovative reforms. Some of the faculty centric policies are listed below:

- Employee gets fees concession for their ward if they study at Eshan.
- Farewell parties are given to the leaving staff members by their respective departments.
- Salaries of all the employees are timely credited to bank account of employee for smooth running of their all expenditures.
- Appreciation awards are given to the faculty members for their hard work.
- Events and Employee Engagement Activity
- Conference Fee reimbursement.
- Incentive for Research Publications.
- Training & Development Program
- All the faculty & staff members are entitled to avail casual leave with pay up to a maximum period of 12 days in one academic session. If a faculty/staff member is called on duty on holidays he/she is granted compensatory casual leave (CCL).
- All the married female teachers are entitled for maternity leave for a period of three months for a maximum of two children.

- A teacher may be granted three days academic leave with pay per semester for academic work elsewhere.
- Study leave for faculty.
- Faculty and staff members are granted up to two short leaves per month for attending urgent work. They are also granted half casual leaves
- The institute has well defined promotion policy under PASS (Performance Appraisal Scoring System) for the faculty and staff members.
- All the employees of the institute are provided with free bus facility from all the corners of Agra, Mathura.
- The Institute has a policy for providing financial assistance to faculty members for attending conferences/workshops, undergoing MOOCs courses, publishing patents and taking membership of professional bodies.
- The institute has a defined policy for reimbursement of TA/DA while on duty assignments.
- The teachers are normally entitled for autumn and/or winter break.

The institute has a well-defined Performance Appraisal Scoring System (PASS) for the faculty and staff members. At the end of each academic year, Self-Appraisal Report (PASS) from each teaching/nonteaching staff is invited. It includes the details of academic excellence, research publications, contribution in administrative & other activities etc.

#### ***Performance Appraisal Scoring System (PASS) for teaching staff***

The objective of this analysis is to motivate faculty members to perform better in delivering quality education and research at Institute. The appraisal is used for the following purpose:

- Award of special increments in the pay scale.
- Award of career advancement/promotion
- Monitoring the overall growth of each staff member and their contribution towards the development of the institute.

#### **Components of PASS and Weightage:**

<b>Assessment Criteria</b>	<b>Max. Credit Points</b>
Academic Activities	35
Research Activities	25
Extension Activities	15
Administration Activities	15
Extra-Curricular Activities	10

#### ***Performance Appraisal System for non-teaching staff:***

Similar appraisal system is adopted for non-teaching staff with different assessment criteria suitable for different job profiles. Assessment is carried out every academic year.



File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

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

**Response:** 64.4

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

2021-22	2020-21	2019-20	2018-19	2017-18
72	91	30	3	3

File Description	Document
Policy document on providing financial support to teachers	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	<a href="#">View Document</a>
Audited statement of account highlighting the financial support to teachers to attend conferences / workshops and towards membership fee for professional bodies	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

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

**Response:** 74.33

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

2021-22	2020-21	2019-20	2018-19	2017-18
192	53	55	33	0

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

2021-22	2020-21	2019-20	2018-19	2017-18
23	23	28	31	34

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

## 6.4 Financial Management and Resource Mobilization

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

### Response:

The institute manages its funds mainly from students' tuition fees as Eshan is a self-financing institute. Funds are spent on payment of salary of teaching and non-teaching staff, maintenance work, setup of new infrastructure required for teaching-learning process etc. Budget is prepared keeping in mind developmental activities of the institute. Each teaching/non-teaching department prepares its own departmental budget under different heads with proper justification. Budget for the departments is prepared by concerned HODs, in consultation with the department laboratory in-charges and other faculty. The departmental budget is discussed by the Director with the concern HOD and then sent to the management for final approval. Fund is sanctioned, which is deployed on different Heads of Expenditures in accordance with approval of various statutory committees constituted by the Institute. In the institutional budget, a provision is also made for books, salaries, departmental priorities, needs and requirements of various non-

teaching sections, maintenance expenses such as electricity, water, telephone etc.

**Optimal Utilization of financial resources:** Optimal use of financial resources is ensured through strict budgetary control on expenditure as per available provisions.

1. Equipment: It is need based equipment for laboratories, special office equipments and modern teaching aids like Multimedia Projectors etc.
2. Student Amenities: Such facilities include canteen, safe drinking water, recreation rooms, common rooms, counseling centres etc.
3. Adequate funds are allocated for effective teaching-learning practices such as Orientation Programme, conferences, workshops, seminars, training programmes, FDPs/STTPs, refresher courses that ensures quality education.
4. Fund is utilized to meet day to day operational and administrative expenses and maintenance of infrastructure of the institute.
5. Adequate funds are utilized to enhance library facilities needs to enlarge learning practices every year.
6. Funds are utilized for academic and infrastructural development of the institute.
7. Some funds are allocated for social service activities as part of social responsibilities.
8. The fund is kept safe for miscellaneous expenses and for certain emergency requirements.

The institute has established a mechanism for conducting internal and external audits on the financial transactions every year to ensure financial compliance.

The Finance and Accounts department performs various functions like financial planning/budgeting, reporting, and controlling. The department works proactively to solve any financial issues. The Account office maintains the Books of Accounts properly which helps in auditing procedure.

**Internal Audit:** Internal audit is conducted on regular intervals by the Chief Accountant of the institution. The Internal Audit of the College makes a thorough audit of the expenditures of the college. The expenses are monitored by the accounts department as per the budget allocated by the management. The depreciation costs of various things purchased in the preceding years are also worked out.

**External Audit:** Once in a year, registered chartered A/C firm conducts statutory audit. Institute keeps its books of account as per Income Tax Act 1961. Appointed CA as an external auditor by the institute take cares the external audit, prepares the balance sheet, income and expenditure statement and other required documents and finally submits ITR every year along with audit report duly signed by management.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

**6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the**

**quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities**

#### **Response:**

The main assignment of the IQAC is to foster a framework for cognizant, steady and reactant improvement in generally speaking execution of the Institutions. IQAC is one of the major policy making and implementing unit which strives hard for upgrading the college infrastructure and all support facilities to meet the standards of higher education and growing need of students.

The objectives of the IQAC are to ensure continuous improvement in the entire operations of the Institution, to ensure stakeholders connected with Education, namely parents, teachers, staff, employers, funding agencies, society in general, of its own quality and probity, develop a quality system for conscious, consistent and programmed action to improve, the academic and administrative performance of the institution, promote measures for driving institutional functioning towards quality enhancement, and institutionalization of best practices.

The three significant practices institutionalized by the cell under incremental improvement are as follows:

#### **Academic Audit**

The college takes academic audit of each department every year. Academic Audit committee is set up for this purpose. At the beginning of academic session, the committee collects academic plan including extension activity to achieve better performance. Through academic audit, it is found out that all departments have been constantly improving their curricular delivery, co-curricular and extra co-curricular performances. The institutes attempt to chisel out the person through a persistent focus on imparting quality education, through its innovative, comprehensive and flexible education policy.

#### **Examination Reforms**

Institute has implemented Outcome Based Education (OBE) in its teaching practices. Outcomes are evaluated at each and every step and the corrective actions are taken to fill these gaps. IQAC members visit each department twice in a semester to review the course files of all subjects and other relevant documents also. For clear understanding of Outcome Based Education, the institute has designed proforma's for COs and POs calculation. Based on this calculation, gaps are identified and action taken report is prepared for further improvement.

#### **Student Mentorship Program**

For closely monitoring the professional & personal development of students, SMP has been initiated by assuming and analyzing certain issues of the students such as issues like communication skills and understanding subjects pertaining to their specialization as students normally have less exposure to these qualities at schooling. Following are few points about SMP are practiced:

- Our students are briefed about SMP program at the induction program.
- By pairing faculty mentors with mentee students over the course & with scheduled meeting in a comfortable environment.

- A faculty member work as a mentor for a group of 20 students for counselling and better performance of students.
- Opportunity is given to students to talk about their academic needs, share their goals, and discuss concerns and needs.
- Interact continually with student, counsel and provide them with constant motivation and emotional support.
- Make student aware of the functioning of various departments of Institute and contact parents in case of academic irregularities/misconduct.
- Help student in exploring careers, setting goals, developing contacts, and identifying resources.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

#### 6.5.2 Quality assurance initiatives of the institution include:

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

**Response:** A. Any 4 or more of the above

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

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

**7.1.1 Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years. Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words**

#### Response:

Institute puts great effort to maintain and provide an inclusive environment where men and women, students, faculty, and non-teaching staff can work together in an atmosphere free of gender violence, sexual harassment, and gender discrimination and with a sense of personal security and dignity.

The Principle of Gender Equality is enshrined in the Indian Constitution in its Preamble, Fundamental Rights, Fundamental Duties, and Directive Principles. The Constitution of India not only grants Equality to Women, but equal access to Participation in decision-making in the social, political and economic system of the nation.

The institutes also believe in celebrating events and festivals at different time intervals with an aim of building a strong cultural belief in the students. Considering it an integral part of learning values, the institutes make tremendous efforts in celebrating the national and international days, events and festivals every year such as Independence Day, Yoga Day and Diwali etc.

To create an ambience of gender equality and to promote strong cultural belief among students & staff, the institute offers equal opportunities to both male & female staff and students without any discrimination for all the academic and non-academic activities & processes.

#### Safety and Social Security

- Proper lighting arrangements are made across the campus.
- To instill a sense of security among the females in the institute, the entire campus is being put under the surveillance of CCTV cameras.
- Besides CCTVs, there is a tight vigil through the deployment of security personnel at strategic positions of the institute.

#### Counselling

- At the time of admission, proper counseling regarding branch selection, campus culture and the working mechanism of the institute etc. is provided to the students by the senior staff members.
- Batch counselors are designated for counseling the students in their academic, extra-curricular activities and other issues.
- In the beginning of the new session, an induction programme of 15 days is conducted to reduce anxiety, nervousness and make students more comfortable in the new environment.

**Independence Day Celebration:** On 15th August, 2021, students participated to host the Flag ceremony. Sweets are distributed to the students by the management after National Anthem.

**Diwali Celebrations and Inter-departmental Rangoli Competition:** Rangoli competition at inter departmental level was the scene of attraction in the campus. Cash prizes were distributed to the students and gifts were given to the employees.

**Yoga Day Celebration:** Yoga Day was celebrated on 21st June, 2021 among the staff and student. An insight on regular practice of Yoga was provided which would help the students to achieve better mental and physical health. Asanas were performed by the students and the teachers enthusiastically. Also, the importance of these Asanas was explained simultaneously.

**National Science Day:** National Science Day is celebrated on 28th of February in order to commemorate the invention of the Raman Effect in India by the Indian physicist, Sir Chandrasekhara Venkata Raman. For his great success in the field of science in India, Chandrasekhara Venkata Raman was awarded Nobel Prize in Physics in the year 1930.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

#### 7.1.2 The Institution has facilities and initiatives for

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

**Response:** A. 4 or All of the above

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

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

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

**Response:** A. All of the above

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

**7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)**

**Response:**

Purpose of an Engineering College is not only to provide knowledge about technical issues but also to develop students' as well groomed human beings. To achieve this Eshan has been working untiringly to create an inclusive environment so that students from different backgrounds feel engaged, productive and energized perennially. The authorities try to inculcate in the staff and students the very idea to have an open mind about the *values, rights, duties and responsibilities of citizens*.

The institute has taken following initiatives in providing inclusive environment and to achieve constitutional obligations.

- 1.**Dress code for all students:** The institute has a uniform for all the students of engineering with the intention of uniting students under the banners of their institute, irrespective of their socio-economic background. More importantly, the institute encourages every student to showcase his/her individuality through academics, athletics, and individual passions rather than through their clothing.
- 2.**Orientation Programme:** Every year, at the outset of the new academic session, ESHAN organizes an exhaustive "Orientation Programme" for new students.
- 3.**Participation in different non-technical clubs:** Students based on their areas of interest are



encouraged to join different technical and non-technical clubs to pursue their hobbies where they can exchange their ideas in a team to build relationships with deep interests.

4. **Blood Donation Camp:** A Blood Donation Camp is organized in ESHAN every year during which the students and staff members participate with great enthusiasm. Students of rare blood group are always ready to donate blood as and when required. The list of such students is shared with the hospital authority.
5. **Seminar on Traffic Rules:** An awareness programme to encourage the students for following traffic rules and to develop patience while driving was conducted by Eshan College of Engineering on January 06, 2023.
6. The Independence Day is also celebrated every year to highlight the struggles and the supreme sacrifices made by the freedom fighters to break the shackles of 200 years of slavery. The intent is to make students and staff members submerged with the feelings of patriotism and evolve in themselves a sense of belongingness to the nation.
7. A Primary School has been adopted by the college to make students learn about the selfless serving in the society.
8. To create awareness among students about various constitutional rights, expert talks are arranged from eminent lawyers of the city from time to time.
9. To promote health and hygiene practices among students, expert talks from eminent doctors of the city are organised from time to time.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

## 7.2 Best Practices

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

#### Response:

#### Best Practice 1

##### 1. Title of the Practice: School Adoption

Key Words: Awareness Programmes, Health, Hygiene, Education, Gramothan.

##### 2. Objectives of the Practice

The institute has adopted a Primary School, Pingari, Farah, Mathura. With reference to the adopted school, the institute aspires to bring constructive changes in the life of the students about educational, social and infrastructural issues. It also instils a feeling of service to society among the students studying in the institute. The programme is executed under the aegis of the management of Eshan College of Engineering, Mathura.

### 3. The Context

The institute has a noble vision of Gramothan that signifies bringing a positive change in the lives of students who cannot afford the facilities easily available to the urban people. This is more crucial to the children who harness dreams to be at par with their urban counterparts. The programme connects the students of the institute to the children and feeling of serving.

### 4. The Practice

The following activities are undertaken by the institute for Primary School, Pingari:

- The volunteer students of the institute organize a two-day camp in the school every year. The camp holds various activities related to the sectors of health, education, safety etc.
- The students of the institute work in collaboration with the authorities of the school to convert the school into a Smart School.
- The volunteers have organized activities related to yoga, Medical camps, self-defense, water conservation and the importance of blood donation etc.
- The volunteers of management of Eshan have also helped in renovation of the school building.
- Health check-up camps are organized in which medicines are distributed freely.
- Tree Plantation
- Hygiene training is provided to girls students of the school.

### 5. Evidence of Success

- The institute has received an official letter of collaboration from the Principal of the school.
- The principal of the school has shown his trust in the institute for making the school a smart school.
- The volunteers of the institute have been successful in disseminating awareness about sanitary napkins, government schemes, scholarships for girls, Banking, Water conservation, Swachh Bharat Abhiyan, Swine Flu awareness, AIDS awareness, and about new technology in education.

### 6. Problems Encountered and Resources Required

The problems faced by the volunteers of the adopted school are related to building perspectives. Lack of infrastructure has restricted lots of movements of volunteers for proper & in time execution of plans. Subsequently necessary infrastructure has been provided to school from time to time.

#### Best Practice - 2

##### 1. Title of the Practice: Special Fee Concession to Economically Weaker Students

**2. Objectives of the Practice:** Main objective of this practice is to help the needy students at the time of financial emergency so that they do not face any kind of stress due to monetary issues during their studies. The financial aid is provided to those students who are not covered under any scholarship scheme run by government or non-government. To spread the benefits of quality technical education to the students who are from economically and financially weaker sections of the society and are from underprivileged class but are meritorious, intelligent, and brilliant otherwise, so that they can contribute to the upliftment and betterment of their own families and then society at the large.

**3.The Context:** “Ray of Hope”, a kind of charity was started by the management of the college in 2013 when 21 meritorious students were admitted in our institute without any fee and they did not have any kind of financial aid. These students belonged to very poor families and were from rural areas. These students were not covered under the domain of various scholarship schemes. Few students were not even able to pay the hostel mess charges. So college management decided to start a “Ray of Hope” to help such kind of students.

**4.The Practice:** Under this practice, college management willingly decided to help the meritorious students from economically weaker classes and those who are not covered under any scholarship scheme of our charitable society. Whenever some of the students face a financial crunch and are unable to pay the college fee, at that time the fees may be full, or partial is paid from the fund of Ray of Hope. This is according to the right of education act, where we as society believe in improving the access to education to everybody. This also helps in checking the drop out of the college rate due to financial constraints. Through this graceful gesture of helping the needy students we are trying to empower the aspirants of technical education and there by transforming the society.

**5. Evidence of Success:** So far 874 (last 5 year data) students have been benefitted through this scheme with amount of Rs. 15,398,355/-. Girls students are also provided free of cost of bus service.

Web link: <https://www.eshancollege.com/assets/NAAC/criteria-5.1/5.1.1/5.1.1%20final.pdf>

**6. Problems Encountered and Resources Required:** During the time of Covid-19 Pandemic large number of students faced financial crisis and approached for help and due to our own financial constraints we were able to help our students partially. As a result of this practice, many of these students have secured top merit positions in various university examinations with the support and motivation of faculty members. Students have also performed well in co-curricular, extra-curricular and cultural activities which further brushed up and enhanced their overall personality. Also, students have got placed and secured good jobs in various companies which was the main motive of this practice so that they can earn their livelihood in respectable way and ultimately can help in the upliftment of their family.

File Description	Document
Best practices as hosted on the Institutional website	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

## 7.3 Institutional Distinctiveness

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

**Response:**

**Title of the Practice – Beyond Curriculum Initiatives**

Being an affiliated college to AKTU – Lucknow, we may not have the freedom to design/update the curriculum according to the requirements of the industry so the visionary management of the Eshan College of Engineering, Mathura has introduced numerous value-added beyond curriculum courses both at the Institute level and at the department level to enhance the employability quotient of the students.

- To equip students with the much-needed domain skills that enable them to become a contributing part of the corporate world.
- To establish among the students the belief that one coding language is a must for everyone and it should be considered equivalent to the acquisition of a third language apart from Hindi & English.
- To equip our students with minor specializations that prepare them to face new and upcoming changes in the professional world.
- To enable the students in the requisite Soft Skills/Transferable Skills to enhance their employability.

The industry is evolving at a rapid pace, and we can already hear from the experts in the corporate world murmurs of the industry moving from INDUSTRY 4.0 (automation & AI) to INDUSTRY 5.0, with an even more thin line difference between human and machine interaction to enhance the user experience –whether it is any product or service. After duly ascertaining this need by regularly interacting with professionals from the industry the management of our institution decided to establish a whole new vertical in this Eshan plays an instrumental role in increasing the employability quotient of our students.

Although it is an initiative to assist the improvement of the students, yet the main challenge is to motivate the students to become active participants in the process as these are non-credit courses and are being offered to them as a value-adding course apart from the prescribed curriculum of the affiliating university.

After gaining admission into the institute, during the induction/orientation program, all the students are made aware about the variety of beyond-curriculum initiatives being practiced for their development so that they may be able to make informed choices about the same.

- After their admission all the first-year students undergo an assessment to ascertain their English communication proficiency and the students' falling in the improvement category are trained for a definite number of hours that is counted as a part of their internship.
- It is also ensured that all the students studying in all the streams are exposed to practical aspects of the computer programming languages to ingrain it in all the students like a 3rd language.
- From the 2nd year onwards the choice of minor specializations is opened department wise for the students and they can opt according to their interest area, and the progress of the students in the same is maintained to ensure that they are on the right path towards progress.
- In the pre-final year, the students are furthered on their minor specialization course and relevant MOOCs associated with these are also prescribed to the students from various platforms like NPTEL, Coursera, edX, Udemy, etc., so that relevant knowledge from the top institutes is combined with the learning imparted by the faculty members of the department/institute.
- The Soft Skills faculty members from the Department of Applied Sciences & Humanities department also play a significant role by imparting the AKTU prescribed curriculum in the first year (from session 2K20-21 onwards) and train the students on the self-developed modules in 2nd year & the pre-final year on Soft Skills + Quantitative Aptitude + Verbal Ability to enhance the employability of our students. In their final year all the students who register themselves for campus placements get specialized capsule training according to the need of the specific recruiter.
- The major hurdle that needed to be overcome was inspiring the students to be participative in this

non-credit beyond curriculum courses by enhancing their awareness about the recruitment process and its stages adopted by the various recruiters' hiring from our campus, and how this beyond curriculum training will benefit them. This has been mandated by making these value-added sessions as an essential component of the regular timetable and 60% mandated attendance subject-wise as per the institutional academic policy.

Apart from this, to increase the interest and participation of the students the departmental clubs, which are student-driven bodies, also get directly/indirectly involved in these training sessions by organizing various competitive/gamified events, like hackathons, coding challenges, and many more.

Small steps taken in the right direction yield positive results over time and this has been proven by the Eshan College of Engineering, Mathura. The major accomplishment due to the concerted efforts of the institute in this direction has been a constant increase in the number of job offers for our students from the campus.

**Link for Enhance Placement:** <https://www.eshancollege.com/assets/NAAC/criteria-5.2/5.2.1/5.2.1%20Placement%20summary%20with%20no.%20of%20students.pdf>

The biggest challenge of ensuring students' participation has already been taken due care of by strictly implementing the institutional academic policy and as far as the required resources are concerned – the faculty members of the Department of Applied Sciences & Humanities, are all in-house resources who arrange for due interaction with alumni and industry personnel as & when required. In-house aptitude and verbal ability faculty members have also been recruited and for conducting some specialized training sessions to enhance the recruitment prospects of our students an out-sourced agency is also made available to the students.

As it is said that leaders are exemplified when they create other leaders and keeping this in mind, our suggestion to other institutes is that they may also follow this practice if they are able to develop strongly formulated policies and follow these up with a strict implementation strategy that focuses on students' improvement.

File Description	Document
Appropriate web in the Institutional website	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

## 5. CONCLUSION

---

### **Additional Information :**

Wablink of the institute is: <https://www.eshancollege.com/about>

### **Concluding Remarks :**

This institution provides quality technical education that lay emphasis not only on knowledge, technology, information and communication but also aspires to empower the youth morally and ethically to serve society selflessly. The institution has taken quality initiatives to become an outstanding model in the higher education sphere with an all-encompassing approach, and it is always looking for a sustainable progress as envisaged in the vision of the institute. Proactive management with a progressive vision and dedicated faculty members, students, Alumni and parents are the strong pillars for consistent advancement of the institution.

Institute's IQAC is functioning very well with all the procedures and now institution is ready for NAAC Accreditation.