



# **SELF STUDY REPORT**

**FOR**

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

**RATHINAM TECHNICAL CAMPUS**

**RATHINAM TECHZONE CAMPUS POLLACHI ROAD EACHANARI  
641021**

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

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**April 2021**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

RATHINAM TECHNICAL CAMPUS under M/s. Rathinam Educational Trust was established in 2011. The college is affiliated to Anna University and recognized by All India Council for Technical Education (AICTE), New Delhi. The corner stone objective of the college is to promote technical education and its usefulness for the society with professional and ethical values through the centre of excellence. Unique in its structure, amazing methods and goals, the college is deeply rooted in a philosophy of training and research. It is located in a vistas of sylvan charm surrounded by green hills and lush lawns. It emphasizes the synergism between knowledge and its application and seeks to promote the creation of an ideal society. The students are exposed to congenial atmosphere for diligent academic pursuit at Rathinam Technical Campus. At present the college is offering 8 Under Graduate (UG) Programmes and 2 Post Graduate (PG) Programmes.

### **Staff and Laboratories:**

The college consists of several senior members with M.Tech and Ph.D. qualifications. These staff members have expertise in various emerging fields of engineering, made a mark in the field of technical education with several research publications. Each and every department has its own set of laboratories with sophisticated equipment.

### **Departments:**

Each department is headed by a senior professor and is given the fullest freedom to innovate and plan its perspectives of development. Organizational hierarchy is maintained to ensure administrative harmony. Empowerment through total decentralization of the departmental administrative system into several committees and units headed by senior faculty, promotes cooperation, sharing of knowledge and innovations. Separate departmental budgets ensure that there is no unprecedented resource crunch.

### **Student Support and Progression:**

Various programs are organized to take care of the curricular, co-curricular and extra-curricular aspects of education. Periodical tests are conducted to asses and identify the slow bloomers and extend given extra learning support. Customized, timely counseling is given to the students to maintain a healthy rapport with the students. Student grievance cell functions effectively on the campus to redress the problems of the students. The institution provides necessary coaching to enable the students to take up various competitive exams.

### **Vision**

To be a leading and path breaking Institution in multi-disciplinary education, research and industry related development for meeting the challenges of a New India.

### **Mission**

- Provide quality Engineering Education, Foster Research and Development, inculcate innovation in Engineering and Technology through state of the art infrastructure.
- Nurture young men and women capable of assuming leadership roles in the society for the betterment of the country.
- Collaborate with industry, government organizations and society for curriculum alignment and focused, relevant outreach activities.

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

### Institutional Strength

The major strengths of the Institution have been mapped across different dimensions as;

**1. Image** - RTC has established total supremacy in providing avant-garde quality technical education in Coimbatore. It makes the Institution as the most preferred choice of students and parents. This is evident from our track record of consistently filling up full quota of seats backed up by good placements of students in renowned corporate organizations.

**2. Infrastructure** - A well-developed world-class infrastructure with a built-up area of 10,368 sq.m comprising of instructional area, circulation area, amenities, equipment and library in addition to the IT companies and SEZ, are the major strengths of the Institution.

**3. Faculty** - Well qualified, well informed and experienced faculty belong to all cadres, with diversified specializations, form the backbone of the Institution's academic environment. Out of 86 faculty members, 21 have Ph.D qualification, 10 faculty members are doing PhD. The college epitomizes an exemplary setting for higher learning.

**4. Students** - Students of the Institution come from different backgrounds and places. We have students not only from local region but covering the entire country along with the neighboring countries as well. NRI & Foreign students have also taken admissions to the Institution. Equal opportunities for physically challenged students are given priority in the Institution.

**5. A Balanced Portfolio of Programs offered** - Finally, a well-balanced portfolio of 8 Undergraduate and 2 Postgraduate programs covering core, interdisciplinary and upcoming disciplines of engineering places the Institution at the pinnacle of the engineering education in the region of Coimbatore.

**6. Student Centric Approach** – Institution has teaching and non – teaching faculty with high academic caliber who work tirelessly towards the empowerment of students? through curricular, co-curricular and extracurricular activities of the students. The final outcome of the same is placement of maximum number of eligible students? which is very much evident in the placement details.

**7. Placement Record-** The institution is privileged to be proud for its excellent placement record. It places its students constantly in renowned companies with high salary package. The number of placement and the students' salary package are evenly high.

### Institutional Weakness

The Institution's weaknesses are identified by a process through which each department has brainstorming sessions conducted at different levels. The weaknesses are primarily related to research & development activities.

1. Students are from rural areas who are striving to meet national and global standards in Technical Education and are finding communicating in English as a mammoth task and which becomes the hamartia for placement which must be addressed meticulously.
2. More hours of practical exposure to all students (real life exposure/in-house experience at industries).
3. Attracting international funding for sponsored research.
4. Commercialization of research results in terms of licensing and productization.
5. Post doctoral research assistance for the faculty members.

### **Institutional Opportunity**

- The economic, industrial, and academic environment offers multiple opportunities to develop the Institution as a centre of excellence.
- There is a growing demand for engineers who possess sound technical knowledge, problem-solving skills, and ability to work with heterogeneous groups.
- The Institution can respond to this demand by focusing on imparting such skills to its graduates.
- The minimum qualification criterion for faculty position at the entry level and growing R & D thrust in industry has resulted in an increased student demand for postgraduate programs.
- The Institution can launch additional postgraduate programs covering different engineering specializations. Further, the Institution can involve postgraduate students in R & D and consulting activities.
- There is an increased need of training industry professionals in the areas of technical, software, and soft skills, which can be catered using the acquired expertise of the Institution faculty.
- To be abreast with the latest technical field and how internationally it is important for the Institution to have international tie ups with corporate in abroad.

### **Institutional Challenge**

The challenges identified include;

1. COVID lead to topsy-turvy change in all walks of life especially in socio, economic and academic activities came to a standstill but with the able guidance from our captain of the ship, Our Chairman we weather in all our endeavors.
2. Coping with sudden changes in technology and industrial requirement to improve the Employability skills of the students.

3. Grooming the students to compete with multi-skilled engineers.
4. Maintaining the academic standards of balancing between top-notch performers and slow bloomers is posing great challenge. Bridge course activities are organized for slow bloomers.
5. Moulding the students according to the Multi-National standards.

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

Our Institute follows the curriculum of Anna University. All our faculty members actively involved in Anna University assessment work such as examiners, evaluators etc.,

The faculty members get across the curriculum in a succinct manner which gives a clear cut picture of the modules to the students. The academic committee combines of well versed faculty members in executing the assessment works related to Anna University. We offer 8 UG courses Biomedical, Computer science, Electronics and Communication, Information Technology, Mechanical, Artificial Intelligence, Biotechnology, Agriculture Engineering and 2 PG Courses Applied Electronics and Biometrics and cyber Security. We follow CBCS systems with open elective option.

To gain hands on experience, Internship and Industrial training, visit are made mandatory. To keep pace with the changing scenario we have Add on courses, with a minimum of 20 courses every year is conducted for the students. The philanthropic management allotted more than 5 Lakhs for the Add on courses every year. All the students zealously participated and showed remarkable achievements at the time of placements due to the experience gained in Add on courses.

Our institution is very sensitive to gender, environmental related issues. We groom our students considerate, compassionate and value based professional with professional ethics. Core training is followed to students from their basic subjects.

Our institutions watch ward is “Learning by doing” hence we adopt 100% experimental learning systems. For the growth of any institute Feedback plays a pivotal role. We administered feedback from students, parents, Aluminis, Employers etc., we analyze it objectively and critically. Based on the inference we will chalk out action plan and implement effectively for the growth and success of the Institute.

### Teaching-learning and Evaluation

The caliber of the students seeking admission has been improving year by year which is evident through the scoring. Being heterogeneous group, the Institution caters to the need of all in all aspects. Foster scheme is on for the slow bloomers. Bridge course is organized for the lateral entry. Students who are good in technical field and communication are encouraged to participate in Hackathon / Design thinking etc. Mentors have been appointed for every twenty students and they act as local guardian.

A contingent of well informed and experienced faculty members have been recruited as per AICTE norms which enhance the teaching-learning process. The institute meticulously adheres to the norms of AICTE in student teacher ratio, competency and specialization of the faculty. In turn the faculty prepare course plan,

lesson plan handout and to make the class lively and innovative, techniques have been implemented like ICT tools and modern 21st century pedagogical techniques.

Discipline specific technical training has been conducted to bridge the gap between curriculum and industry requirements. Further to amplify the student's domain knowledge, guest lecture, workshops and conferences are organized. The modus operandi of examination and evaluation system is a fool proof and updation is done whenever it is required.

A set of PEOs, POs and PSOs are formulated as per the norms prescribed by the Anna University. The CIE and SEE question paper are set based on taxonomy application to avoid rote- learning methods. Application, analysis and evaluation method are followed to assist the attainment of PEOs, POs, PSOs and COs we follow systematic procedure.

Based on the inference corrective measures are taken and with all these efforts the pass percentage of student has been remarkably increased resulting in good placement and employability.

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

The Institution has well formulated research committee to develop the research and development activities inside the campus. Motivation and patronage are provided by Management for promotion of research. Research activities amongst the faculty and students are motivated by providing expert sessions from industries and academics. The Institution encourages the faculty to conduct research development programmes for knowledge sharing.

Each department has a separate research laboratory with the necessary hardware and software supports for the research. Budget allocation for research and development activities is done for each academic year and financial assistance is provided for faculty and students participation in various events such as workshops, seminars, conferences, book publications, training programmes & Journal publications outside the campus. We frequently conducted such events to motivate our staff and students.

Journal publications are frequently published by our faculty members for self development in major publications as SCOPUS, Web of science and SCI indexed journals which in turn enrich the student's knowledge. Our Management constantly encourages the faculty members to publish their research papers.

The institution promotes college-neighborhood network community development by conducting regular activities related to social responsibilities of the institute. Societal responsibility among the student is promoted by encouraging in participating in various events like NSS, Nature club & Tamizh mandram club. RISE club helps the Tamil medium students to develop LSRW skill in English. The management plans and organizes number of extension and outreach programs in the neighboring villages through NSS, and society oriented clubs are conducted for the benefit of the local populace. There are also other activities as visiting old age home and orphanages. Regularly blood donation camps and eye camps are organized.

The Institution has signed MoU with several organizations such as Steps Knowledge Services, Godrej & Boyce Mfg. Co.Limited etc to establish industry powered laboratories. Internship, Industrial training, Industrial visit were organized for students and faculty members through MOU signed companies or industries to enrich the latest development in their field. By interacting with the industry people to identify the real time problem and sort out the issues by our faculty team.

## **Infrastructure and Learning Resources**

Rathinam Technical Campus has most significant infrastructure to provide all-inclusive learning platform for students and faculty. Classrooms are spacious and creates a relaxed environment to learn. Digital Projectors are added advantages in all classrooms. Multimedia projectors are used to make learning more absorbing and comprehensive.

College has high-end sophisticated labs. This will give working experience for students' right while they are learning. From the core labs, science labs till communication labs, everything is housed inside with all advanced facilities. Labs are integral part of an academic institution and in Rathinam, we are strongly committed to providing world class infrastructure of labs so that we can create ideal environment for a student to understand the practical part of concepts.

Auditorium is centrally air-conditioned with a fully sound proof set up and equipped with latest technology for all types of audio/video presentations. Rathinam Auditorium can accommodate up to 300 people at a time.

The digitalized library serves as the knowledge centre for around 1000 students in our campus. The library is not limiting itself to just academic knowledge but spreads its wings across all other co-curricular things. Library housed in a building, and dedicated departmental libraries, provide to students and staff a very conducive environment and opportunity for exploring a world of knowledge.

Cafeteria with Wi-Fi serves as a better spot for students to hang out during breaks. The food court is arranged with proper hygiene and cleanliness. There is 24X7 Wi-Fi of 100 mbps facility in the college.

Education and Sports activities go hand in hand at Rathinam. There will be several students who are very much talented in various sports. We handpick and train them with the help of professional trainers.

### **HIGHLIGHTS**

- a fine quality cricket ground with special training nets
- Basket Ball court
- Gym facility
- Football, Shuttle Badminton, Ball Badminton, Volley Ball are also given equal importance.

Rathinam Technical Campus Auditorium serves as the perfect place for various events and special activities. It helps to accommodate over thousands of people to promote and share common interests.

## **Student Support and Progression**

Students are benefited by scholarships and freeships from all central and state government schemes under SC/ST and BC/MBC categories.

The Institution offers scholarship and financial assistance to academically strong and economically weak

Students.

The Training and Placement Cell of the college extends its service in the form of career guidance, soft skill training, technical training etc. to enhance student's skill and mould them to be industry ready.

The Institute has a well-defined system for resolving student complaints through Grievance Redressal, Sexual Harassment Committee and Anti-Ragging Committee. These committees ensure safe and peaceful ambience in the campus.

The institution has an unique mechanism for career guidance and placement for the students.

The institution promotes active participation of the students in sports, social & cultural activities to encourage , enrich and ensure overall development of students.

College has a registered and active Alumni Association promising regular interaction with alumni .

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

The Institution has efficacious and transparent governing system in align with our vision and mission of the institution. For the smooth conduct of the system, we have well formulated organizational structure and decentralized system. The governing council conducts periodical meetings and reviews the progress of the institution. The institution has lucid strategic plan and it is deployed effectively. Human resource department has crystal clear rubrics and policies.

The number of casual leaves, permission, on duty, comp. off, loss of pay, E.L, and maternity leave etc. staff recruitment, realizing of Ads and emoluments, designation based on service all well structured by the human resource department.

Faculty becomes the integral part in Board of governance, academic council, Board of studies.

Staff welfare association extends its helping hands for the staff members in all possible ways and makes them feel at home. The Association provides financial support for personal requirement and professional growth. Maternity leave with salary, gratuity, sponsorship for higher studies.

To keep pace with the new updating in the respective field of academics, our institution extends enormous support by sponsoring registration fee to attend seminar, workshop, symposium. Travelling allowance and deduction allowance and on duty.

On an average of 20 professional development training programmers and administrative training. Programmers are organized by the institutions for teaching and non-teaching staff members every year. On an average of 85% of teaching staff members attending professional development programmers and having their subject competency.

Staff members who pursue higher studies are greatly encouraged by the management by providing leave with salary and adjustment in work slot etc.

The department budgets are prepared and consolidated to form organization budget and resolution are finalized



in governing body meeting.

We have modern scientific appraisal system for teaching and non-teaching staff separately.

We have concrete policies for budgeting and internal and external auditing procedures. The internal quality assurance cell meticulously monitors effective implementation of quality process in all aspects with standardization measures.

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

The Institution is devoted to its accountabilitys to the environment and consciously monitors the greenery in the campus by planting good number of trees and other plants, with an exclusive team of gardeners.

Renewable energy sources like solar panels have been installed in the campus and for improving the power quality the capacitor bank is used to keep efficient utilization of electrical energy. Usage of LED bulbs consumes more quantity of electricity. To ensure the clean drinking water RO facility is available in our campus. Steam based cooking processes which minimize the environment pollutions are effectively used in our campus. Sewage treatment Plant (STP) is established to recycle the waste water.

College promotes creative and entrepreneurial skills of students and faculty through the funded seminars, workshops and many funded proposals from various organisations enhance the research base of the institution. Rathinam Start-up School is functioning to expose the innovative ideas from the students.

The college motivates the students to participate in more number of events both technical and Non-technical like national level Hackathons, Ideation camps and various inter college cultural events.

College has various clubs like RISE Club for English Proficiency, Tamil Mandram, Dance and Music Club, Photography Club, Nature Club, Drawing, Painting and Crafting Club, Sky Watching Club for Innovation Talks and NSS develops an all-round personality of students. Women Development Cell promotes women empowerment and gender equality. Also separate technical clubs are there for individual departments. An annual techno cultural fest "Enthusia" will be conducted March Month every year. More than 5000 Students from various states will participate in this mega event.

Cells like Institute Industry Interaction Cell (IIC), Innovation and Patent Cell (IPC), Research Cells will help students to learn more than their academics. At regular intervals, the ideation camps will be organised. Every fortnight the meeting will be held to view the progress.

Remedial classes for slow learners have been conducted to improve the overall academic performance. Value added course helps the student to obtain diverse knowledge about upcoming technologies apart from academics.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	RATHINAM TECHNICAL CAMPUS
Address	RATHINAM TECHZONE CAMPUS POLLACHI ROAD EACHANARI
City	COIMBATORE
State	Tamil Nadu
Pin	641021
Website	<a href="http://www.rathinamtechnicalcampus.com">www.rathinamtechnicalcampus.com</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	B NAGARAJ	0422-4040905	9952680627	0422-4040902	principal@rathinamtechzone.com
IQAC / CIQA coordinator	P KRISHNA KUMAR	0422-4040929	9791961930	0422-4040906	head.iqacrce@rathinam.in

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	
Date of establishment of the college	13-07-2011

**University to which the college is affiliated/ or which governs the college (if it is a constituent college)**

State	University name	Document
Tamil Nadu	Anna University	<a href="#">View Document</a>

**Details of UGC recognition**

Under Section	Date	View Document
2f of UGC	21-07-2015	<a href="#">View Document</a>
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>	27-06-2020	12	Extension of Approval

**Details of autonomy**

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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**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

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	RATHINAM TECHZONE CAMPUS POLLACHI ROAD EACHANARI	Urban	4.16	10358

## 2.2 ACADEMIC INFORMATION

NAAC

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Biomedical Engineering	48	HSC OR EQUIVALENT	English	60	58
UG	BE,Computer Science And Engineering	48	HSC OR EQUIVALENT	English	60	60
UG	BE,Electronics And Communication Engineering	48	HSC OR EQUIVALENT	English	30	28
UG	BE,Mechanical Engineering	48	HSC OR EQUIVALENT	English	30	23
UG	BTech,Information Technology	48	HSC OR EQUIVALENT	English	60	60
UG	BTech,Bio Technology	48	HSC OR EQUIVALENT	English	30	23
UG	BE,Agriculture Engineering	48	HSC OR EQUIVALENT	English	30	21
UG	BTech,Artificial Intelligence And Data Science	48	HSC OR EQUIVALENT	English	60	59
PG	ME,Biometric And Cyber Security	24	BE OR EQUIVALENT	English	9	6
PG	ME,Applied Electronics	24	BE OR EQUIVALENT	English	9	1

**Position Details of Faculty & Staff in the College**

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	8				13				65			
Recruited	8	0	0	8	7	6	0	13	41	24	0	65
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				18
Recruited	12	6	0	18
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				4
Recruited	3	1	0	4
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

**Qualification Details of the Teaching Staff**

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	8	0	0	7	6	0	0	0	0	21
M.Phil.	0	0	0	0	0	0	5	4	0	9
PG	0	0	0	0	0	0	36	20	0	56

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

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

<b>Details of Visting/Guest Faculties</b>				
<b>Number of Visiting/Guest Faculty engaged with the college?</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
		2	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	221	9	0	2	232
	Female	96	4	0	0	100
	Others	0	0	0	0	0
PG	Male	3	0	0	0	3
	Female	4	0	0	0	4
	Others	0	0	0	0	0

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

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	15	54	101	135
	Female	6	18	35	59
	Others	0	0	0	0
ST	Male	1	2	4	3
	Female	0	0	1	1
	Others	0	0	0	0
OBC	Male	38	64	58	68
	Female	15	14	27	19
	Others	0	0	0	0
General	Male	17	27	6	13
	Female	1	3	6	4
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		93	182	238	302

## Extended Profile

### 1 Program

#### 1.1

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

2019-20	2018-19	2017-18	2016-17	2015-16
155	97	68	131	413
File Description		Document		
Institutional data prescribed format		<a href="#">View Document</a>		

#### 1.2

Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
10	10	10	10	10

### 2 Students

#### 2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
720	1037	1021	1074	1052
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

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

2019-20	2018-19	2017-18	2016-17	2015-16
241	281	321	321	321

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

## 2.3

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

2019-20	2018-19	2017-18	2016-17	2015-16
268	311	154	264	273

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

## 3 Teachers

### 3.1

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

2019-20	2018-19	2017-18	2016-17	2015-16
87	93	120	148	118

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

### 3.2

#### Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
81	87	118	118	118

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

## 4 Institution

### 4.1

#### Total number of classrooms and seminar halls

**Response: 32**

**4.2**

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

2019-20	2018-19	2017-18	2016-17	2015-16
348.77	560.89	658.44	560.63	468.70

**4.3**

**Number of Computers**

**Response: 240**

NAAC

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

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

##### Response:

Rathinam Technical Campus, affiliated to Anna University, Chennai, follows the curriculum designed by the University. In the beginning of every academic year, the University chalks out the Academic Schedule and circulates to its affiliated colleges. The Academic Council chaired by the Principal sets the Academic Calendar of the Institution and each department frames an academic calendar marking the events and assessments of the particular academic year.

At the beginning of each semester, the head of the departments organize an academic planning meeting to list out the Core course, elective courses and collects the preference of the subject from the faculty members. The courses are allocated based on the preference and experience of the faculty members. Head of the Department assigns the work load comprising both Theory and lab schedule for each faculty member and lecture hours are assigned as per the university norms.

Time table coordinators of each department discuss and prepare the timetable for their concerned department considering credit requirement of each subject and finally the master timetable is compiled.

The Faculty members prepare their own course plan and course material for the allocated courses which includes the Syllabus, Lesson plan, Time table, Course Objectives, Outcomes, CO-PO mapping, Video links, Assignments etc.,

Continuous internal Assessments are conducted as per the Academic calendar. Curriculum delivery, Student performance and progress are periodically monitored by the respective Head of the Department and the Principal. Faculty members use various innovative teaching methodologies to make teaching learning process more effective. To bridge the gap between Academic and industry, each department organizes in-plant trainings, industrial visits, workshops, seminars, guest lectures, hands on training, internships, etc. Laboratory Manual is prepared for practical courses prescribed by the affiliating University.

Learning Management System(LMS), Rathinam Gradraise is in practice where the course contents are delivered to students through online mode. The Attendance is monitored through the LMS. Assignments and quizzes are given periodically and are graded.

The effectiveness of teaching and learning is measured through feedback from students at regular intervals.

The students are motivated to take up online Certification Courses to enhance their knowledge. Teaching faculty enrich their knowledge by attending workshops, Faculty development programs, conferences and seminars which help them for accomplishment of their subject delivery and curriculum more effectively.

The institution provides all necessary infrastructural facilities to our teaching faculty such as Class rooms with LCD Projectors, Language lab, Educational Softwares, E-Journals and reference books, 24 x 7 Wi-Fi facility throughout the campus and Digital library.

Class committee meetings are conducted every month by the class advisor. The meeting is headed by the Head of the department in the presence of the subject handling faculty of particular class where the Student representative voices their needs and share their feedback action on the same are initiated immediately.

The heads of the Department conduct department meeting at regular intervals to discuss the syllabus completion, student's improvement, online effectiveness, faculty members progression in their research area, paper publications, events to be organized, etc.,

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

### 1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

#### Response:

The academic calendar is published by the affiliating university (Anna University, Chennai) in the beginning of every academic year for all the Courses. The timelines given by the affiliating university is strictly adhered by the institution by effective time management. The Institution effectively plans and sticks to the academic calendar of the affiliating university. This enables the teachers and the students to plan their teaching, learning and regular assessments accordingly.

Each academic year is divided into two semesters. Each semester is approximately of 16 weeks. The first Continuous Internal Assessment (CIA- I) also known as Internal Test-I is conducted after 6 weeks of class work upon completion of first 2 units of each course. CIA- II (IT- II) is conducted after 12 weeks of class work and upon completion of next 2 units of each course. Model examination is conducted for all the five units after 16 weeks of class work and upon completion of balance 1 unit of each course. The prescribed syllabus is taught to the students in the above mentioned 16 weeks of class work.

The students are internally assessed in three different parts based on the final pattern of the university question Part A- 2 marks, Part B- 13 marks and Part C- 15 marks. Apart from the above pattern of assessment, the students are continuously assessed by conducting unit wise multiple choice questions test for each subject. Also, the subjective component is assessed through assignments marked out of 10 for each assignment. All the above assessments are carefully scheduled and conducted so as to maintain an even space interval to avoid the students getting burdened with too many examinations.

An average of these three internal assessments is accounted to calculate the final internal marks of a student. Also, slow learners are identified from these assessments and remedial classes are conducted to assist them to improve their performance in the external examination.

The format of Outcome based Education is followed in setting up of question papers. All questions are mapped with the respective course outcomes stated in the beginning of the course.

The assignments are given to the students in such a way to help them attain knowledge on the syllabus topics that are not only university exam oriented but also helps them in gaining relevant knowledge on the respective topics. These assignments are given for every unit in each subject. The students are to complete the same within the allocated time frame to adhere to the course schedule.

Every department frames its own calendar for effective and timely delivery of course content based on the university calendar. The head of the respective departments discusses and approves the topic wise planning of lessons of every teacher and monitors day to day adherence of the same.

The changes on the schedule (if any) as intimated by the university to the college is implemented and is adhered by the institution.

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

**1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years**

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

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

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

**1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective**

**course system has been implemented**

**Response: 100**

**1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.**

Response: 10

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

**1.2.2 Number of Add on /Certificate programs offered during the last five years**

**Response: 50**

**1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.**

2019-20	2018-19	2017-18	2016-17	2015-16
10	10	10	10	10

File Description	Document
List of Add on /Certificate programs	<a href="#">View Document</a>
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

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

**Response: 69.92**

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



2019-20	2018-19	2017-18	2016-17	2015-16
625	773	688	670	615

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View Document</a>
Any additional information	<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 into the Curriculum

#### Response:

#### Gender Equality:

Gender equality is when people of all genders have equal rights, responsibilities and opportunities. Our Institution strongly upholds for Gender equalance. Each activity of the institute provides equal opportunity for both the genders. The college has a fully functional Women's Empowerment cell through which various activities such as Self awareness, Personal Hygiene, Self Defence, Women Entrepreneurship Programs etc., are conducted to empower Women.

Institution has an active Anti Ragging Cell. Anti Ragging committee poster has been displayed on notice board and at various places like food court, hostels etc. Meetings have been conducted at regular intervals. Complaints from the students regarding Canteen, Hostel facility is properly addressed and resolved by the institution. Counseling has been given to students on both Personal and Academic related issues.

#### Environmental Awareness:

As a part of the core curriculum "Environment mental Study" is included for the first and second year students of all disciplines. Environmental study being a part of the curriculum of the institution, Faculty equips the students about the basic components of the environment and their application in a variety of fields. The Institution involves students in a variety of activities like tree plantation within campus, public consciousness during festival season with the help of students. E.g. Blood donation camps, importance of hygiene and individual responsibilities regarding the same etc.

Environmental awareness is inculcated in students. The institute also has a NSS Cell. The cell arranges a variety of saplings plantation and cleanliness programs involving the students. Students are made to realize the importance of preserving the environment.

#### Human rights:

Human rights being the basic rights of an individual, our institution enforce that no violation of human rights takes place. On 10th December, which is declared as Human Rights Day, our institution organises awareness events and motivates everyone to make proper use of one's basic rights.

#### **Professional ethics:-**

Professional ethics are taught as the part of their curriculum subject to the students. Importance of team work, awareness on Engineering Ethics and Human Values, instilling Moral and Social Values and Loyalty and imbining leadership are being taught to the students.

#### **Moral and ethical values:**

Moral and ethical values become the integral part of education to the students. The teachers contribute their best and prepare the students to make them responsible citizens. Days of National and international importance are celebrated every year to imbibe the value of our nation in the minds of the students. Some of such events celebrated are Independence day, Republic day, Gandhi Jayanthi, Teacher's day, Voters Awareness Day, International Yoga Day, World Environment Day, Youth Day etc.

<b>File Description</b>	<b>Document</b>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### **1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years**

**Response:** 66.1

#### **1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
99	97	60	83	62

File Description	Document
Programme / Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	<a href="#">View Document</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

**Response:** 66.39

#### 1.3.3.1 Number of students undertaking project work/field work / internships

Response: 478

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.4 Feedback System

**1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni**

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

File Description	Document
Any additional information (Upload)	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

**1.4.2 Feedback process of the Institution may be classified as follows: Options:**

**1.Feedback collected, analysed and action taken and feedback available on website**

2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

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

File Description	Document
Upload any additional information	<a href="#">View Document</a>
URL for feedback report	<a href="#">View Document</a>

NVAAC

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average Enrolment percentage (Average of last five years)

**Response:** 53.41

##### 2.1.1.1 Number of students admitted year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
93	182	238	302	342

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

2019-20	2018-19	2017-18	2016-17	2015-16
336	396	456	456	456

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

#### 2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)

**Response:** 52.87

##### 2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
75	152	176	177	222

#### File Description

#### Document

Average percentage of seats filled against seats reserved

[View Document](#)

Any additional information

[View Document](#)

## 2.2 Catering to Student Diversity

### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

#### Response:

We have a streamlined mechanism for continuous monitoring and evaluation of the students progress.

The students are assessed through their performance in examinations, interaction in the class room and laboratory, their rudimentary knowledge, concept understanding and articulation abilities etc., The Institute promotes independent learning that contributes to their academic and personal growth. Based on the performance the students are categorized into advanced and slow learners.

The advanced learners are encouraged to be the members of professional bodies and organize technical events. They are motivated to participate in various technical events online courses like coursera, sololearn, Industrial visit, value added course etc, which are held both within and outside the institution.

The value added courses are conducted through Centre of Excellence. These courses are to help students to stand apart from the rest in the job market by adding further value to their resume. It provides an opportunity to the students to develop inter-disciplinary skills. First year students are categorized and Tamil medium students are given effective training in English communication skills. Many activities are given to improve computational skills.

The Students are encouraged to enroll themselves in various online certification courses through NPTEL, Coursera etc., The students exhibit their innovative ideas by attending Hackathon conducted by various Education sectors. By motivating them to do mini projects which inculcate research orientation and practical awareness in them. Providing opportunities to develop their creativity by participating and organizing intercollegiate as well as national level technical symposiums.

Take up competitive exams like GATE, GRE, TOEFL, IELTS, CAT etc./ are encouraged to Semester Toppers and University rank holders with certificates and cash awards by the management.

A slow learner needs empathetic approach from the teacher, since he needs more time to grasp the concepts, needs reinforcement and more resources from the teacher. Our faculty do full justice to enrich their skills.

Regular classroom learning focuses on the acquisition of new skills based on previously learnt concepts. When the majority of the students are learning at a faster pace, a slow learner tends to be left behind. For slow learners the bridge courses are conducted during the first year to make those students to understand the fundamentals of the courses.

The Remedial classes are organized to help the slow learners to perform better in the assessments and final exams. During Remedial classes the doubts are clarified, tests are conducted; group study is done to improve their performance..SMS and registered letters are sent to parents of the students who often absent themselves. Counseling with additional teaching, eventually help the students to attend classes regularly. Peer Tutoring encourages students to study in groups.

Tutors are assigned with set of students. Tutors arrange for meeting at regular intervals and discuss the student's personal and academic issues. The additional care given to slow learners and ways for improvement is identified. In addition to it, resident tutor is there to conduct evening special classes for slow learners both day scholars and hostellers.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Past link for additional Information	<a href="#">View Document</a>

### 2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

**Response:** 8:1

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

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

**Response:**

Our college gives more importance for the holistic development of students from day one.

1. Tutors constantly mentoring the students and motivate them in all their endeavors.

For first year students we will offer Boot camp for two days in order to train the students for college life, to make the students to interact with their new friends for this we conduct indoor outdoor games. Student's centric learning methodology were encouraged such as field study, case study and experimental learning method and enhance self confidence and overcome stage fear. It also helps thinking out of the box.

#### **Experimental learning**

Experimental learning through industrial visit on regular basis gives knowledge for the students, to know how the theory courses are implemented in industries. The students undergo internships/in-plant training during vacation which gives an opportunity to interact with the Industry and have hands-on experience. Industrial visits and internships can also lead to projects for students in their final semester and fetch jobs at the end of the programme. In laboratory courses, the students conduct experiments and get a better understanding of the theoretical concepts taught in class. The faculty members encourage participative learning which in turn helps the students to learn through reciprocal teaching, participation in group discussions, presentation of seminars and enacting role plays for a better understanding of concepts/ technologies.

### Participative Learning

Guest lecture/Webinar by industry expert is organized by the department and various workshops are organized to give hand on training for the students. Value added courses are arranged to learn beyond the curriculum. Many seminars, symposium conference are conducted. We offer Coursera certification courses for students through which student community gain knowledge and they know how to complete the course without teacher's guidance. Through Coursera students learn in-depth of their subjects.

### Problem based learning

To create design thinking among the students we offer hackathon for students in which students will develop their own project and demonstrate within the department by constant guidance from the teachers. These things facilitate the student to meet the centric learning, supplements regular teaching-learning process and enable the students to solve problems effectively. In addition to it, soft skills training and class room discussions are organized in regular class hours.

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

### 2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

#### Response:

ICT enhances the learning opportunities and enables the learners to share and transform their knowledge and ideas globally. Our Institute follows ICT learning ambience employing advanced technology and ensuring ICT facilitated teaching practices to the students. Online mode of teaching is enabled through LMS Rathinam Gradraise where the teachers are able to provide course content along with online lecturing through MS Teams. The LMS enhances asynchronous learning and provides access to lecture materials, video content, question banks, assignments, quizzes, etc.

The well-equipped digital classrooms with LCD projectors, internet enabled computer/laptops, speakers and 24/7 Wi-Fi with 100 Mbps speed are enabled. E-journal packages of **DELNET, NDL, Kinmbus, E-shodhsindh** enhance the Digital Library and enables the students and faculty members to update their knowledge on recent technology and developments. Audio visual aids are effectively employed by the faculty members to explain the technical concepts and resources from NPTEL are utilized to augment the experience of learning. NPTEL resources are accessed by the faculty and students through the server installed in the library. Numerous e-journals and e-books are subscribed to hone students' and faculty members' knowledge. The research journals are available online and facility for accessing these journals is provided through proxy server in the campus.

The courses designed in SPOKEN TUTORIAL and MOODLE provide asynchronous learning environment to the students and faculty members. Completion of the courses before deadlines and evaluation are monitored on online. Feedbacks are collected periodically and the course content is



enhanced as per the requirement. Virtual lab support, one-to-one internal viva voce, Communication Skill Development and training are provided as scheduled.

All the departments conduct online seminars, workshops and guest lectures about the recent technologies in the core subjects for effective teaching and learning by the faculty members and students in each semester. Faculty is appreciated by incentive schemes upon completion of online courses.

Student ideation, boot camp and design thinking workshops are conducted through digital platforms to kindle student's innovative thinking. A novel concept of break-out room is introduced to enhance student's discussion and peer knowledge transfer. Availability of Class room studio with promising recorded teaching videos of faculty members ensures worthy knowledge transfer.

Online class effectiveness is measured using the precise metrics and top 25% ranked faculty are recognized through incentives.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )

**Response:** 14:1

#### 2.3.3.1 Number of mentors

Response: 51

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	<a href="#">View Document</a>
mentor/mentee ratio	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

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

**Response:** 108.28

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 11.3

##### 2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
14	13	12	13	9

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 3.52

##### 2.4.3.1 Total experience of full-time teachers

Response: 306.24

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

#### Response:

The University circulates the Academic Schedule to the affiliated colleges. Based on the schedule, the Examination Cell of the Institution prepares the Internal Assessment Schedule for all the departments. The same is circulated to all the classes and it is displayed in the Department and Common Notice Board. The Examination pattern is communicated to the students well in advance by the Examination Cell Members of each department.

A detailed academic calendar is available on the website and notice-board of each department. Thus, students would be aware of examinations well in advance and they can plan their study accordingly. Students are informed about various parameters of Internal Evaluation system. The periodic instructions issued by the university are timely communicated to the students. Such instructions are read in the classrooms and the copy of the same is displayed on the department notice board.

Students are briefed about the internal assessment, question paper patterns and university examinations during the orientation program as per the current regulation by the Principal/Head of the Department/Coordinator. For effective understanding of the evaluation process, the faculty members give class wise / course-wise instructions about the unique features of internal/external evaluation of that course

Two internal examinations and one model examination are conducted per semester. The course handling faculty briefs the student in the classroom about their attendance and performance in the internal examinations.

The question paper is prepared based on Outcome Based Education. The questions are chosen in turn which meets the Course Outcome. Program and Course Outcome are measured at end of each Evaluation.

Dual set of question paper is prepared for each subject. Among these two sets one question paper is selected from the Examination Cell before the commencement of examination.

Internal assessment answer scripts after evaluation is issued to the students in the class to clarify their doubts on the presentation part. Students can interact with the teacher to resolve grievances if any, regarding the assessment.

#### Transparency of Internal Mark

All the internal marks are displayed on the notice board, results are sent to parents and also through SMS and marks are posted in the University Portal where the students can view their marks.

One model lab is conducted per semester. The consolidated list of marks of both regular lab sessions and model lab is considered as lab internals and the same is uploaded in the University portal.

Project work evaluation is done by conducting reviews by the Project Coordinator based on the rubrics defined by considering various parameters. The rubrics are informed well in advance.

The performance of the students regarding the internal test marks and attendance are informed to parents through post. Personal guidance is given to slow performers after their assessment

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

#### Response:

The college follows a proper guideline for handling Examination related grievances both Internal and External. The student's issues are resolved with high priority. The Institute conducts the Internal Assessment and the University conducts the External Assessment Examination.

During exams, the late comers with valid reason are allowed to take up the examination, if he is present within 30 minutes of the commencement of the Exam. In the Internal Examinations, if any student finds discrepancy in question, e.g. given answer options are not correct, data given in question is insufficient or options are repeated, out-of syllabus questions, may report it as invalid question. Immediate action will be taken against the issue.

After the internal assessments, the answer scripts are issued to the students for knowing the key for awarding marks and the presentation model. Students are permitted to self evaluate their answers and seek any clarifications to the teacher. In case of any issue finds with evaluation, reevaluating the answer script is done by the faculty.

Minimum 75% attendance is required to write university practical and theory examinations. The students with less than 75% attendance are not permitted to write any of the external examinations.

During External Examination, the hall tickets are issued to the students for University Examinations well in advance. Any grievance related to the hall ticket such as change in Register number, name, subject of examination and loss of Hall ticket are informed to Exam Cell. They forward the issue to the university and necessary actions will be taken.

All the internal assessment marks are posted in the University Portal. The students can view their assessment entries. The assessment is transparent to student.

The students with health issues are allotted separate halls and all the necessary facilities and supports are provided by the institution.

Internal examination grievances such as less time duration, syllabus questions etc are discussed in class committee meeting and are resolved.

University question paper grievances such as out of syllabus questions, typing errors, questions not properly typed, repetition of questions etc. are notified to the University through the mail sent to the Coordinator through Examination Cell.

Review on the question papers are done by faculty members to find out the percentage of toughness in the question paper and the feedback is given to the department Head.

After the results has been declared by the University, if the student finds that the given grade is not appropriate then, he/she can apply for photocopies of the answer script through the Examination Cell. Examination Cell Co-ordinator addresses their issues. The photocopy of the assessed answer-sheets from the University is issued to students within a particular time frame. After receiving photocopies, if students are not satisfied with their grade, he/she may apply for revaluation. The application is forwarded to university for further action.

Even after the revaluation, if the student is not satisfied with the result, he can apply for challenge valuation. The Institution supports in all means for applying for the same.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

### Response:

The institute is affiliated to Anna University Chennai. The program outcomes (POs) are well defined and published by the ABET Accreditation body which internationally accepted by all professional colleges, program specific outcomes (PSOs) and course outcomes (COs) are aligned with the vision and Mission statement of the Department and the syllabus content and Blooms Taxonomy (Knowledge Level). COs are framed by the Heads of the department with a Team of senior Faculty members, after the brain storming sessions with the subject handling faculty members, the HoD arrive at a consensus. Course committee meetings are conducted at regular intervals and the institute extends unstinting support through systematic systems. This helps to understand the course outcomes easily.

COs is explained to the students while dictating the syllabus and it is implemented in every internal examination question papers. It gives a crystal clear picture of COs of the respective subject. Faculty members prepare the lesson plan by clearly understanding the course outcomes COs and POs/PSOs are available in the course file and Lab Manual prepared by the faculty members. POs and COs for all programs and courses offered by the institution are available in the institute website for reference. As the COs and POs are published in the institution website they are made attainable through faculty members, student awareness workshops, student induction programs, Notice boards, Boards, Classrooms

and Labs, Seminar Halls. All the planning and execution are directed towards the objectives framed during faculty meetings.

A curriculum that offers a number of courses, the program outcomes and program specific outcomes are achieved by Quantitative Assessment done by Internal and External Assessment Parameters. Each course has defined course outcomes that are linked to the program outcomes and a set of performance criteria that are used to provide quantitative measurement of how well course outcomes are achieved. The course outcomes are thus directly and quantitatively assessed, and are tied to the program Outcomes and program specific outcomes. The course outcomes of each course are mapped to the Program Outcomes with a level of emphasis being strongly correlated (3), moderately correlated (2) and lightly correlated (1). Faculty members refer the syllabus to understand POs and COs thoroughly before delivering the courses to the students.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Past link for Additional information	<a href="#">View Document</a>

### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

#### Response:

Course Outcomes (CO's) are the statements that state what the students are likely to know, and be able to do at the end of each course. These relate to the skills, knowledge, and performance that students acquire in their perspective through the course. The course outcomes are framed by the respective faculty members and HOD with the help of subject experts.

CO attainment levels can be measured based on the results of the internal assessment and external examination conducted by the university. This is a form of direct measurement of attainment. For reaching an attainment level, the rubrics are followed. Rubrics have value if teachers use them to get students past what the teacher wants to what criteria make papers, projects, and performances excellent.

#### Attainment levels: University examinations:

Attainment level 1: <50% students scoring the set attainment level of B grade in final examination.

Attainment level 2: ?60% students scoring the set attainment level of B grade in final examination.

Attainment level 3: ?70% students scoring the set attainment level of B grade in final examination.

#### Attainment levels: Internal examinations:

Attainment level 1: <50% students scoring the set attainment level of 50 in internal examination.

Attainment level 2: ?60% students scoring the set attainment level of 50 in internal examination.

Attainment level 3: 70% students scoring the set attainment level of 50 in internal examination.

Overall CO attainment level = 20% of CO attainment level in IA tests & model exam + 80% of CO attainment level in End Semester Examination.

**Attainment of POs Programme Outcomes (POs):** Program Outcomes (POs) are one step broader statements than COs that describe what students are expected to know and be able to do upon the graduation. It is required to calculate the attainment levels for PSOs in addition to compute attainment of POs. Program outcomes and program specific outcomes are attained through the attainment of COs. This is called direct attainment of POs and PSOs.

#### Steps for attainment of Programme Outcomes (POs):

Prepare the COs and POs mapping matrix for each course (starting from I- Sem. to VIII- Sem.) Prepare the Course- PO matrix for all courses.

It is the average PO values, obtained in CO-PO mapping matrix, for each course Calculate the PO attainment values using the Course-PO matrix and overall CO attainment value for course Overall PO attainment values- It is computed by adding direct PO attainment and indirect PO attainment values in proportion (as per the regulations).

**Direct PO attainment:** It is the average of individual PO attainment values. Direct attainment level of 80% added 20% of internal assessment attainment level and 80% of end semester attainment level.

**Indirect PO attainment:** For determining indirect attainment of POs, the activities such as student exit surveys, employer's survey, co-curricular activities, extra-curricular activities etc., are considered. Indirect attainment level is taken as 20% of the maximum of all the POs and PSOs.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional information	<a href="#">View Document</a>

### 2.6.3 Average pass percentage of Students during last five years

**Response:** 65.91

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

2019-20	2018-19	2017-18	2016-17	2015-16
240	132	76	163	236

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

2019-20	2018-19	2017-18	2016-17	2015-16
268	311	154	264	273

<b>File Description</b>	<b>Document</b>
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for the annual report	<a href="#">View Document</a>

**2.7 Student Satisfaction Survey****2.7.1 Online student satisfaction survey regarding teaching learning process****Response:** 3.85

<b>File Description</b>	<b>Document</b>
Upload database of all currently enrolled students (Data Template)	<a href="#">View Document</a>
Upload any additional information	<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, Chairs in the institution during the last five years (INR in Lakhs)**

**Response:** 166.14

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

2019-20	2018-19	2017-18	2016-17	2015-16
74.676	38.726	31.407	21.328	0

**File Description**

**Document**

List of endowments / projects with details of grants

[View Document](#)

e-copies of the grant award letters for sponsored research projects / endowments

[View Document](#)

Any additional information

[View Document](#)

**3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)**

**Response:** 0

**3.1.2.1 Number of teachers recognized as research guides**

**File Description**

**Document**

Institutional data in prescribed format

[View Document](#)

**3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years**

**Response:** 31.43

**3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
4	3	3	1	0

## 3.1.3.2 Number of departments offering academic programmes

2019-20	2018-19	2017-18	2016-17	2015-16
7	7	7	7	7

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Paste link to funding agency website	<a href="#">View Document</a>

## 3.2 Innovation Ecosystem

## 3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

**Response:**

Rathinam Technical Campus promotes innovation and interdisciplinary research that provides start-ups and emerging entrepreneurs with incubation facilities. The Rathinam Startup School was founded for the purpose of Innovation & Patent Cell development to meet international standards. It promotes interdisciplinary research and provides startups and emerging entrepreneurs with incubation facilities.

**A) Rathinam Startup School**

The Vision of Rathinam Startup School is to make the student's Entrepreneurial Passion a reality. The primary objectives of Rathinam Startup School are finding passion inside the campus? , finding the potentials of the passionate? , skilling the Rookies? , facilitating them to develop -entrepreneurial skill? and bridging them to ATAL incubation centre( AIC) Raise?

**Rathinam Startup School is our pre-incubation facility that bridges the gap between students and the AIC. A1) Startup Rookies** The Selection process comprises of a Written exam and a Personal Interview.? After high scrutiny, the selected members are termed as Startup Rookies. **A2) Startup Clinic** A process of organising Expert talk for the Startup Rookies. **Power Talk** We have a process of inviting the Investors, Funders, Agencies who is looking for the young minds to work in their Projects. **Startup Passport:** This is travel-based event, in which students are taken to nearby Startups to experience it real-time. **Ideation Boot Camp** The students are mentored to have a business model for their budding startup.? **Ideathon** During this process, the Rookie members are provided with a Problem Statement and they should develop a business model for their Startup.?

## B) Innovation and Patent Cell

Innovation & Patent Cell (IPC) embraces a sound IP strategy to protect knowledgeable faculty IPR and highly prospective campus students. It provides protection in their Institute Self-Reliance in Finance.

The Primary objectives of IPC are to create an awareness about IPR in Campus, to encourage on patentable works ,to disseminate knowledge on patents, patent regime and registration aspects ,to conduct workshops, seminars and training course on IPR ,to impart training on patent filing processes.

**Finders Camp:** Finders camp's primary objective is to create real-time problem statements that are faced by one in ones day-to-day life. **IPC Ideathon:** Student's team are presented with an opportunity to express and present their ideas during the day of the activity. **Skill Talk:** Every fortnight, the coordinators of IPC organise a session from on skill topic to help the students to nurture their skills.

## C) Industry-Institute Partnership Cell

The primary objectives of IIPC are to bridge the gap between Industry and Institute, to synchronise the quality of education to provide industry ready students, to integrate industrial and academic learning. **Industry Mentoring Programme:** Our Institute organises every month, one seminar for two days on recent technology provided by industry to students. **Technology Knowledge transfer:** Through the IIPC ecosystem, the industry trained faculty members to train the students. This helps in technology knowledge transfer. **Industry Synergic Meet:** The industrial experts are invited fortnightly to deliver the current scenario in the specific field of industries.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

**Response:** 46

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

2019-20	2018-19	2017-18	2016-17	2015-16
20	10	7	4	5

File Description	Document
Report of the event	<a href="#">View Document</a>
List of workshops/seminars during last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.3 Research Publications and Awards

<b>3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years</b>	
<b>Response:</b> 0	
<b>3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years</b>	
Response: 00	
<b>3.3.1.2 Number of teachers recognized as guides during the last five years</b>	
File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>

<b>3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years</b>				
<b>Response:</b> 2.63				
<b>3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.</b>				
2019-20	2018-19	2017-18	2016-17	2015-16
150	120	8	15	5
File Description	Document			
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>			
Any additional information	<a href="#">View Document</a>			

<b>3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years</b>
---

**Response:** 2.94

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

2019-20	2018-19	2017-18	2016-17	2015-16
80	62	68	59	64

File Description	Document
List books and chapters edited volumes/ books published	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.4 Extension Activities

### 3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

**Response:**

The Institution takes various initiatives to inculcate students to pay attention towards social issues and contribution to the community. Rathinam focuses – Learning, Working and Living. The institution has various clubs and different units in the college, which include **Atal incubation centre, IT Park and SEZ National Service Scheme, L&T skill training scheme, Godrej Skill training centre, Nature Club, CSR and Rotaract club.**

We have Rathinavani 90.8 Community Radio. The radio station was established under the Social Development Initiative of the institutions to broadcast programmes on education, environment, health, art and culture, entrepreneurship and infotainment. The Institution launched several successful social startups.

ATAL Incubation Centre (AIC) is an initiative under the ATAL Innovation Mission (AIM) of NITI AAYOG, which provides supporting amenities in terms of infrastructure, resources, and indisputable mentoring ecosystem to the research and entrepreneur and investor community in India. With EDII (Govt. of India), it provides entrepreneurship training. The IT Park and SEZ within the campus helps the professionals in institution-industry interaction.

During Covid'19 Our Institution in association with the start-up manufactured wide range of products partnered with AIC RAISE ATAL Incubation Centre, under Atal Innovation Mission of NITI Aayog Govt. of India. The Products are **Face Shield, Low Cost V Intermittent Positive Pressure Breathing Ventilator (IPPV), Automated Hand-Free Sanitizer Dispenser, Natural Homemade Hand Sanitizers, Automated Hands-free Mask Dispenser, Wearable Diagnostic Tool, UV Bot, and UV - Dosth [Micro Steriliser].** These Products were selected for **UTKRISHT SANSTHAN VISHWAKARMA AWARD (USVA).**

**L&T skill training unit** had conducted training in the field of air conditioner installation and repairing, solar installation and repairing, electrical wiring and repair for school dropouts. The students are provided with expert lectures and lab equipments for practicing in our campus and 180 local students benefited from these programs.

**Godrej Skill training centre had conducted training to students around 60** regarding various types of Refrigerator, Air conditioner, Washing machine and Microwave oven working as well as repair and service procedure in elaborated way.

Rathinam Technical campus organized **REST 2020** for plus two level students to approach the State board exam confidently. We provided space and other basic amenities for those who attended exams in our Rathinam campus and around 700 students benefited in and out of Coimbatore. Rathinam has donated a computer to a NO. 10, Muthur Govt school and given training to school teachers to improve the skill on computer operation.

Our N.S.S volunteers rendered their service to nearby Government Schools and semi urban school children, basic health and hygiene, basic computer literacy and awareness programs on pollution free environment. Rallies were conducted on important social awareness like AIDS awareness and Blood donation etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 0

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

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Number of awards for extension activities in last 5 year	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years ( including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)**

**Response: 55**

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

2019-20	2018-19	2017-18	2016-17	2015-16
16	13	12	8	6

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years**

**Response: 64.99**

**3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
729	625	645	603	464

File Description	Document
Report of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.5 Collaboration

#### 3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

**Response:** 208

##### 3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
86	35	30	29	28

File Description	Document
e-copies of related Document	<a href="#">View Document</a>
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

**Response:** 20

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

2019-20	2018-19	2017-18	2016-17	2015-16
7	7	4	2	0



<b>File Description</b>	<b>Document</b>
e-Copies of the MoUs with institution/ industry/corporate houses	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

NVAAC

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.**

**Response:**

The institution has a well maintained infrastructure which makes the teaching learning more effective. The campus spreads over an area of 4.16 acres with a plinth area of 10358sq.m., comprising buildings of high-standard, classrooms with proper ventilation, numerous laboratories, auditorium, smart classrooms, library, indoor and outdoor stadiums.

Our institution has sufficient number of well-furnished, well ventilated, spacious classrooms for conducting theory classes. Entire campus is networked with 24 hour Internet connectivity with a band width of 50 Mbps, about 55 Wi-Fi points spread over the entire campus including hostels. Data Centre is well equipped with DHCP, DNS, Firewall server, Storage Server, ubuntu server, communication server, firewall, Cisco 3800 series router, Network Video Recorder.

All department of the college are fully equipped with latest state-of-the-art technology equipment as mentioned in the curriculum. Every department has got their own computing facility with latest software to meet their own requirements of major project/mini projects and research activity. The college has established advanced Research laboratory facilities in specific areas to inculcate research habits among the student fraternity.

The Institution has Atal Incubation Center Raise with a world class infrastructure. Seminar Hall with the seating capacity of 120 students with ICT facility such as LCD projector, wireless microphones, sound systems. Auditorium with seating capacity of 300 students.

The institute has all supportive equipments such as scanners, printers, MSDN software, speakers, Laptop, LCD projector etc. And a language lab for improving the accent, voice modulation,

The Central library has been renovated and automation process is under progress along with the departmental libraries which has a rich and varied collection of books, some rare which no longer in print, and academic journals, both national and international. NDL/DELNET/Nimbus facility is available for students and teachers. Computer and internet facility is available for the students and faculties inside the library.

Separate hostel for boys and girls equipped with adequate furniture, RO systems, gym, sports equipment, and wifi facility is available. Students are provided with proper mess facility to have their food.

To and fro transport facility is available for students to commute from the city to the college.

Water points are available at appropriate places in and around the campus to quench the thirst of the students. Water is purified using the Reverse Osmosis method, and supplied hygienically. This in turn, protect the students from health hazards and help them to lead a healthy life.

The canteen functions to the highest degrees of quality, hygiene and provides the students with tasty food at affordable rates. The clean atmosphere in the canteen has transformed it to one of the most popular places for the students. It functions from 9.00 am to 5.00 pm. The students can avail facilities such as photo copies, scanning and print outs.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

##### **Response:**

Rathinam Technical Campus always gives the confidence to achieve in various extra-curricular activities conducted within the institution and out of the institution. Many activities conducting daily for the well being of students' community for the both physical and mental health.

Tutors persistently monitor the students' involvement in extra-curricular activities such as cultural, sports, usage of gym and practice of yoga.

Rathinam Technical Campus has structured various indoor and outdoor games which develops the good sportsmanship among the students.

Our physical director trains the students to participate in extending beyond or across national boundaries.

##### **Outdoor and Indoor games**

The institute emphasize with playground for outdoor games such as basketball, ball badminton, cricket, football, Kabaddi, volleyball. The students of Rathinam Technical Campus proved their competence and won various commendable prizes in National and International level events.

Our Institute always outfitted with maximum indoor games such as chess, Carrom and table tennis.

##### **Gym**

To develop physical fitness for the students our college furnished with gym facility thorough which many students developed their physical fitness and many new modern types of equipment are used to by the students which able to participate them in external events within the state/ outside the state.

##### **Cultural Activities**

Rathinam Technical Campus having cultural troop and highend air conditioned auditorium to conduct various cultural activities, workshops, seminars and conferences.

It is the raised area to extend their skills to prove externally, Annual day door will open every year to showcase the talent by the students which they learned throughout the year.

### Health care

Health Care facility is accessible in the Rathinam Technical campus (24\*7) to help students and staffs. A separate room for physical examination by the doctors was available within the campus

### Yoga

To nurture the young minds of students, yoga was practicing everyday within the campus and different program are organizing throughout the year. Students are motivated to perform during Independence Day celebration, Republic day celebration and cultural events inside and outside the college

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

**Response:** 75

##### 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

**Response:** 24

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

**Response:** 22.45

##### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
38.76	128.35	147.33	122.56	159.38

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	<a href="#">View Document</a>
Upload audited utilization statements	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

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

#### Response:

Library automation is the sine-qua-non in any premier educational Institution. It clearly and systematically manages the library functioning system. A common database is availed to computerize the trational library functions. Traditional library occupies physical space, and time consuming in locating the books. So the institution must plan for a wider and comprehensive system of approach in providing computerized service.

#### Need of Library Automation:

In the modern world of automated function library should also be revamped with automated information system. It makes the process of the functioning of the library very systematic and we can tell in no time whether a book is available or not. Under whose possession, return due date everything in a minute. The library committee, library staff and the core group should arrive at a consensus for the installation of the new information technology in the library.

Our college is located in the heart of the city. It is housed in a palatial building with scenic beauty of lush lawn and surrounded by green mountains in which we have a massive and a very good collection of books in our library. The books are properly catalogued and arranged subjects-wise. The library plays an important role in promoting information and knowledge and provides access to the students a wide collection of 14,000 books, e-resources like **DELNET, KNIMBUS, NDLI, NPTEL** Web, and Video lectures.

#### CAMU

The digital library of the college offers the latest online resources like e-books, e-journals, and e-databases for reference through remote access. We also use CAMU software in which all the issues and return details are entered automatically by scanning the bar code. All the previous records of the students can be taken at any time using this software. When the due date is over automatically the student name will be indicated in

red mark and fine amount will be allotted. Camu Digital Library emerges as a global EdTech cloud solution that empowers institutions to meet their academic goals. The cloud-based library management software seamlessly integrates with new models of learning and helps streamline scholastic and administrative processes.

### ODOO

There is also a usage of ODOO software which keeps the record of in time and out time of the students by scanning the bar code of their ID. It is of great pleasure in visiting, the inquisitive place, the library which enriches the knowledge and give exposure to various related fields of study. The reading hall remains fully engaged with elite group of students. The new arrivals in shining title cover attract the attention of the readers. A library thus provides food for thought and upto date information to the readers.

### OPAC(Online Public Access Catalogue)

OPAC is a very useful tool for students and faculty members to search the availability of the specific book. OPAC gives full detail of when the book was taken, by whom and when the due date of return etc. is. It also helps to identify the location of the rack in the library where the specific book is available.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

#### 4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

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

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	<a href="#">View Document</a>

#### 4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

**Response:** 13.6

#### 4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
11.40	13.30	15.30	14.20	13.80

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the last completed academic year

**Response:** 4.34

##### 4.2.4.1 Number of teachers and students using library per day over last one year

Response: 35

File Description	Document
Details of library usage by teachers and students	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 4.3 IT Infrastructure

#### 4.3.1 Institution frequently updates its IT facilities including Wi-Fi

**Response:**

The increasing demand for internet access in educational campuses due to evolving standard of education and flexibility offered by the Internet - universities, colleges, educational institutes etc., are keenly stepping forward to setup secured and stable wired or Wi-Fi network campus for their students. As per the current market trend, most of the students like to carry 3-4 devices with them like mobile, tablets, laptops, ipods etc. with them to campus. As these devices devour bandwidth, colleges and universities are struggling hard to keep up with the bandwidth demand. Educational campuses have major requirements of user access

control, control overbandwidth consumption, and differentiated policy control for management faculty's access and student's access. These campuses with wired and wireless internet access require seamlessly roaming facility to access internet from class room to library to labs and residential areas. Laying complete network with different vendor solution would be very costly effort and difficult to manage with technical issues. Education institutes require cost-efficient comprehensive solution that offers all the advanced facilities and features in single platform with single point of contact for technical support.

All the departments have dedicated hardware and software facilities. The college provided internet facility for all the faculty members and the students. The LCD projector facility is provided for all departments. The faculty have unlimited access to information available on the web page and refer journal and book any time. The question bank and class notes are available as soft copy for all students. The final year and pre-final year students have to utilize the software in corresponding department itself for project work. The Research lab is provided for PG students. Several laboratories, staff cabin, office and library are equipped with computer with internet facility. Internet facility is available for students beyond working hours. Wi-Fi connectivity is provided for both hostels.

The daily attendance of all teaching, non teaching and workers are marked through biometric. The facility is provided for office, department, library, and hostel. Number of computer with access to Internet: 240 and LAN configuration and speed are 100kbps.

Currently we are using Blueultraband line of 100 MBPS form and also we have provided Wi-Fi facility to student at both hostel as well as in the campus. Campus has 100 MBPS of high speed internet facility. The institute has a 24X7 Wi-Fi facility in the college campus for the student and faculty members to avail internet connection at any place in the college, & hostel. The connectivity through a fully networked campus with state-of-the-art IT infrastructure, computing & communication resources, offers students the facilities of e-mail, net surfing, up/down loading of web based application, besides helping them in preparing projects & seminars.

In addition to it, we avail sonic firewall to prevent illegal access of internet. Sonicwall's product range offers network security solution (Firewall and UTM appliances), centralized security management, centralized visibility and also for home and small office networks.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

**Response:** 3:1

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student – computer ratio	<a href="#">View Document</a>



**4.3.3 Bandwidth of internet connection in the Institution****Response:** A. 250 MBPS

File Description	Document
Upload any additional Information	<a href="#">View Document</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

**4.4 Maintenance of Campus Infrastructure****4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)****Response:** 23.39**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)**

2019-20	2018-19	2017-18	2016-17	2015-16
91.94	119.70	139.41	140.62	107.73

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

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

The campus holds well established standard systems and procedures for maintaining the physical, academic and support facilities that are governed by the supervision of faculty in-charges in college level. They ensure the various aspects of utilization and maintenance of the physical, academic and support facilities such as maintenance of buildings, laboratories, classrooms, library, computers, sports complex etc.

The proper function of equipment in all laboratories is guaranteed in every semester by the lab experts and minor preservations such as installing replacement parts are carried out by them as and when they are needed and documented in service register. Stock register is maintained in all laboratories and audits are conducted by stock authentication committee to check the availability and working condition of the equipment every year.

1. Lab stock register is secured in safe hands and updated by the lab faculty in-charge and technicians.
2. Old and outdated equipment, chemicals and instruments are discarded by following the standard procedure.
3. Proper functioning of equipment in all laboratories is ensured in every semester by the lab technicians.
4. Breakage or repair if any, are reported to the Head of the department and Lab faculty in-charge and appropriate measures are to be taken for quick functioning of the equipment.
5. Students are given proper instructions to work with the equipment safely and efficiently.
6. Computer Lab assistants under the supervision of the System administrator maintain the efficiency of the college computer and accessories.
7. All the PCs and related equipment like printers, scanners, etc., are backed up by UPS in regular basis.

### **COMPUTER PROGRAMMING LABORATORIES**

1. All the PCs and related equipment like printers, scanners, etc. are backed by UPS
2. Installation of antivirus program is updated in the computers
3. Back up of computers on a regular basis
4. Hard disc clean-up and defragmentation utilities done regularly
5. All computers are checked for applications at the start of every semester
6. Maintenance of computers, Printer and other equipment for every 6 months or as and when required.
7. Software license renewal is done as per the license period.
8. Turn off all computers by selecting the shutdown option on the desktop.

### **MECHANICAL ENGINEERING**

1. All electrical equipment's and installations are checked at start of semester

2. All mechanical & electrical machines are inspected at the start & mid semester
3. Fire extinguishers are recharged after expiry date.
4. All computers are checked for applications at the start of every semester in CADD lab.
5. Water sump is cleaned at regular intervals in Thermal Lab.
6. All measuring instruments are inspected at the start & mid semester.

## **CIVIL ENGINEERING**

1. All computers are verified for application at the start of every semester in CADD lab.
2. License renewal is done for the software's as per the license period in CADD lab.
3. Calibrations of dial gauges are done for every academic year.
4. The Equipment's are tested for its working condition in starting and mid of the academic year.
5. The equipment's are periodically serviced and maintained in every semester.
6. Machines are inspected at the start and mid semester
7. The painting of the equipment is done to prevent from corrosion periodically.
8. The machines are run frequently to check the working condition.
9. Expiry dates for Chemicals were checked periodically.

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

1. Components are tested using Digital Multi Meter (DMM) and faulty components are replaced.
2. Regular checking of Dual Power Supply, Digital Storage Oscilloscope (DSO) and FG are done for every month.
3. Linear & Digital ICs are checked using IC Testers and faulty components are replaced.
4. Regular checking of Digital Trainer Kit, Linear and Digital Power Supply will be done for every month.
5. Regular checking of ICs in trainer kits 8085, 8086 and 8051 are done for every two weeks. Then faulty ICs are replaced.

6. All the PCs are backed by UPS in DSP lab.
7. Hard disc clean-up and defragmentation utilities are done regularly in DSP lab.
8. Maintenance of computers, AC and DSP kits are done for every month.
9. Back up of computers on a regular basis in DSP lab.
10. Turning off all computers by selecting the shutdown option on the desktop.
11. Maintenance of computers, Printer and FPGA trainer kits are done for every 6 months.

### **Library usage guidelines**

1. The maintenance of the library is done by the Library staff.
2. A book circulation register is used for maintaining the library usage
3. The library staff will make the entry of the issue, return, and renewal of books in library using CAMU software.
4. The library stock is intermittently maintained.
5. The library staff will list down the new books to be included in the library and on the permission from Principal and approval from management it is updated in the library.
6. As per the Head of the Department's recommendation, the new technical books are also included in the library periodically.
7. Due dates are observed regularly.
8. Any inconsistency in the return of book, fine amount is collected from the students and faculties.
9. After reading newspapers, journals or special reports, they are kept in appropriate places.
10. Library staff provides the login for access to DELNET or any e-journals.

### **Bus Maintenance**

1. The driver checks the tire pressure at the start.
2. The driver inspects the lightbulbs throughout the vehicle.
3. The cleaner wipes and clean the seats with a damp rag or cloth.

4. The driver checks the fuel level of the bus break condition at the start.

### Sports Maintenance

Sports complex Indoor and Outdoor Games Equipment, Courts, Playground and Gym are supervised by the Physical Education Director and the Sweepers of the college.

1. The grounds are maintained at regular intervals by the rollers by the marker of sports department.
2. The grounds are marked periodically.
3. The gym equipment is cleaned and lubricated properly.
4. The sports equipment is checked and serviced at regular intervals by physical education director.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

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

**Response:** 85.79

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

2019-20	2018-19	2017-18	2016-17	2015-16
672	903	907	872	826

#### File Description

#### Document

upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)

[View Document](#)

#### 5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

**Response:** 21.66

##### 5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
136	176	181	253	328

#### File Description

#### Document

Upload any additional information

[View Document](#)

Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)

[View Document](#)

**5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following**

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
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

**5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years**

**Response:** 72.87

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

2019-20	2018-19	2017-18	2016-17	2015-16
619	785	727	722	676

File Description	Document
Number of students benefitted by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.1.5 The Institution has a transparent mechanism for timely 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
Upload any additional information	<a href="#">View Document</a>
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>

## 5.2 Student Progression

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

**Response:** 67.89

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

2019-20	2018-19	2017-18	2016-17	2015-16
214	231	104	170	150

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years (Data Template)	<a href="#">View Document</a>

### 5.2.2 Average percentage of students progressing to higher education during the last five years

**Response:** 0

#### 5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 00

File Description	Document
Details of student progression to higher education (Data Template)	<a href="#">View Document</a>



**5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

**Response:** 66.67

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

2019-20	2018-19	2017-18	2016-17	2015-16
5	1	1	1	0

**5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
6	2	1	1	0

File Description	Document
Upload supporting data for the same	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

**5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

**Response:** 77

**5.3.1.1 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) year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
17	15	15	15	15

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### **5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)**

#### **Response:**

The institute has an effective Students' Association/clubs formed by representation of both Faculty and students.

Head of the Department selects two Class Representatives for each class based on the academic merit in the preceding examination. At the end of every academic year, HoD nominates the year class representatives of all departments for Students' Association selection. For Sports Secretary, the Physical Director nominates the ardent Sports players.

A selection committee chaired by Principal along with HoDs and current Association President conducts an interview with the nominees and handpicks the office bearers for Cultural, Sports, and NSS representative from third years to frame core association.

The core association selects the President, Vice President, Secretary and Joint Secretary. The Student's Association role ensures proper handing over of the responsibilities to new Student's council and trains them effectively. The new Association framed comprises of office bearers from all the departments and acts as a liaison between the students and the management. The new Association will come into effect in the beginning of every year. The Student's Association also ensures the formation of various teams under them based on the student's interests for tasks such as Social Media Management, Multimedia Editing, Photography, Marketing, blog writing, ECA , etc. This helps the students to gain first-hand expertise and a better understanding of these fields.

The Student Association will handpick club Coordinators for Department Technical clubs, Sky watching club, RISE English Club, Nature Club, Drawing, painting & crafting club, Photography club, Tamilmandram, Dancing and Music Club and Feminist Club. Through professional bodies the institution has organized various technical activities for all the departments for each semester.

The Association is involved in all the activities that define the life of a student and also play a vital role in various institute level committees including Women Development cell, Anti-ragging committee, and IQAC committee. The Association along with professional chapters of NSS plan and organize all the extracurricular events and prepare an event calendar. All the events are organized as per the standard operating procedure set by the institute. They play a major role in organizing College Annual festival– Enthusia and in conducting various religious festivities and a plethora of workshops and skill development sessions across the academic calendar. Right from the First year induction of engineering students to the farewell of the Graduating students, the council plays an integral part in organizing and executing the activities.

The college allocates significant funds for the smooth conduction of all the major activities. Student's Association members take part in preparing a detailed budget and also in procuring funds through advertising and sponsorship. Involving the students in various administrative bodies has developed their leadership, responsibility, teamwork skills and has strengthened their bonding with the institute which has resulted in student's contribution to their alma mater.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

**Response:** 17.4

#### 5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
11	23	21	13	19

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Report of the event	<a href="#">View Document</a>
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	<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:

The Alumni plays a predominant role in the institution's success. Alumni association strengthens the relationship between the alumni and the Alma mater. Rathinam has an Alumni Association which is responsible for keeping complete track of alumni with their current details. The institution's growth lies on the rich history of the student's career success. The institution has a website exclusively for alumni. The alumni register their details in the site once the course is completed. The live happenings of the Institution is posted in the website. The information is shared to them through SMS.

Through this Association, the Institution conducts "Alumni Meet" every year. On this event the Alumni shares their success stories with the current students. The alumni highlights the current trends in the market and guides the students about the career opportunities in different fields. They give inputs regarding placement preparation, expectation from the industries, current scenario of market trend. The association acts as a bridge between the Institution and the Industry.

The Association also arranges for guest lectures and webinars where the alumni share their rich experience and skills with the current students. The association regularly meets and interacts with the management. The Alumni organizes lectures regarding career guidance. The alumni also help the institution by persuading industries and other agencies in getting placements.

Alumni visit campus at regular intervals to support the existing batch of students in planning and organizing events, extend support and guidance for functioning of various students clubs, Career Counseling, Industry Institute Interaction, Placement assistance, Sponsorship etc., The alumni extend their support for summer and winter internships .

Alumni who are entrepreneurs have been providing inputs on how to start a new venture and converting them into job providers. The Alumni shares their experience in start up ,hurdles faced, financial support sectors, registration polices etc., and the association always have a discussion with the college management and staff members with their innovative suggestions to upgrade institute's social commitment stature.

The Alumni contribute financially towards the growth of the Institution for setting up labs, lending books to libraries, club activities etc., some of the alumni are actively participating in social service joint venture. The association has very positive suggestions for NSS-based activities to illustrate its social relevance. Whenever these alumni visit the campus they motivate students to follow their path for the betterment of the society.

The Institution recognizes the Alumni through distinguished Alumni Awards. These Awards recognize the outstanding achievements of our Alumni. The awards are given in different fields such as Professional Excellence Award, Dynamic Entrepreneur Award and Societal Impact Award.

The Alumni survey is collected every year. The survey relates to their employment and further education, perceptions of institutional emphases, estimated gains in knowledge and skills etc.,

It has a pivotal role in shaping and preserving the relationship between the past and the existing students on the one hand and the institute and the society on the other.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 5.4.2 Alumni contribution during the last five years (INR in lakhs)

**Response:** A. ? 5 Lakhs

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

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

##### Response:

##### Vision

The vision of the institution is being a pioneer in exploring new horizons and tapping out the novel courses in multi-disciplinary education, research and by foreseeing the eventual challenges which possess a mammoth task for the students community to pursue their goal, we facilitate the students community by signing MOU with various Industries and startups through which we provide placement opportunity to the students

In addition to it inviting industries to address the students regarding the opportunities available in various disciplines to face the challenges of New India.

##### Mission

To provide a holistic development-based quality engineering education which enables a conducive ambience of study to vibrant zealous boys and girls hailing from different strata of economic and social background

Our mission is get rid of horse and buggy techniques and hone the students to become a technical savvy through fostering research and development and encourage and inculcate the novel and innovative ideas by expanding the range of disciplines, subjects to students.

A Nations future lies in the hands of youth. Hence apart from imparting academic knowledge, we inculcate and make the students to imbibe moral, ethical and cultural value of our country. Encouraging them to take lead role in organizing functions, festivals and department seminars. It moulds leadership traits and social responsibilities and in turn they contribute for the growth and betterment of the country

To crown it we provide exposure to the students by allowing them to have an industrial visit and do projects and internship for which we collaborate with industry, government organization and society for curriculum alignment and focused, relevant outreach activities

##### Nature of Governance

The institute relies on the principle of integrity, excellence, accountability, transparency and empathy.

The institution has unflinching faith in following democratic and participatory mode of governance with all stake holders participating actively in its administration the institution give open forum to its stake holders to share the constructive suggestions for the improvement of institution and for the enhancement of the standards the governing body delegates comprise of authority to the chairman and principal who in decentralize the responsibilities to the head of departments and they are empowered to execute the

following

### **Leadership**

Head of the institution and Department HODs are well informed in their respective discipline and ensures team spirit among the faculty members and ensures it is aligned with college objective and encourage entrepreneurial activities

### **Research**

HODs research and Development committee is actively involved in coherent departmental research strategies to deliver high quality research

### **People Management**

HODs manage the staff members in the department, ensuring their performance and giving opportunities for the staff members in their carrier development and training, in accordance with institution staffing and equal opportunities policies.

### **Responsibilities**

HODs allocate workload to faculty members (teaching & nonteaching) with consent of Head of the institution in accordance with the domain competence of the individual.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### **6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management**

#### **Response:**

In keeping with its belief in collective leadership and democratic values, the organization practices decentralization and participatory management. A specific reflection of this practice can be seen in the comprehensive delegation of power to the heads of the different college departments. How the Head of the department engaged in the management process is as follows

- The Head of the Department guides and supervises the Teaching-learning plans of his/her department with the senior faculty members' help..
- In planning courses, lectures, career advice sessions, remedial steps, interdepartmental or/and inter-college activities, departmental symposiums, and Industrial visits, the department head can decide on the implementation.
- Creative and innovative initiatives within the department are taken for teaching and to improve the

result in end semester examination, special and remedial classes are scheduled for department students.

- The chairman of the Research Board of his/her department. They teach the research culture/ activities among the department's students and faculty with the help of the department's research coordinator.
- In consultation with their departmental colleagues, heads of departments schedule, organize and publish the departmental magazine or working paper.
- After the result of every semester Parent-Teacher meetings are organized by the department faculty member with the HOD in which the academic progress is communicated to their parents/ guardians.
- Faculty members have their goals and involving them in participative decision-making process to achieve the vision and mission of the institution
- Academic programs, cultural activities are framed by the participation of faculty members under the supervision of the head of the department.
- The institution has many committees for the implementation of new policies in academic and administrative activities.
- Before the commencement of every academic year the Principal consolidates tentative academic calendar as per the suggestion of each department heads and it is reviewed in academic council meeting and submitted to governing council for the approval.
- Academic calendar includes:
  - Re-opening date for every semester
  - Working day/holidays
  - Internal test, model test
  - Symposium
  - Guest Lectures
  - Industrial visits
  - Placement activities
  - Department wise FDPs/workshop/Seminars/Conferences
  - HODs meeting and faculty meeting
  - Course file audit
- Each faculty in the departments is encouraged to convey any creative/innovative ideas to inculcate in the institution directly to the Principal or Head of the department.
- The management allocates various committees to decentralize the academic and administrative activities.
- After the approval from these committees' innovative ideas are implemented for the upliftment of the student's community to achieve the vision and mission of the institution
- Our college having the following committees to make participative management with the principal, HODs, faculty members and students

1. Governing council
2. Academic council
3. IQAC cell



- 4.Exam cell
- 5.Placement cell
- 6.NSS cell
- 7.Student scholarship cell
- 8.Academic audit committee
- 9.Grievance Redressal Committee
- 10.Anti- ragging Committee

Anti-Sexual harassment Committee

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic / Perspective plan is effectively deployed

#### Response:

The Institutions growth depends on its effective strategic planning.The strategic plan aligns with the Institution mission, vision, and values, as well as the long-term goals and the action plans to reach them.

Rathinam is more focused on Innovation and Incubation. Rathinam is a pioneer in the field of incubation.In order to enhance the quality of teaching and learning, the college initiates different steps to create an environment for new ideas and innovations. By organizing different activities, the institution plays a major role in developing the creative thinking of students. The Rathinam Technical Campus promotes innovation among students, faculty and citizens of the region and promotes entrepreneurial talents. It promotes interdisciplinary research and provides start-ups and emerging entrepreneurs with incubation facilities. Due to continuous effort we started Atal Incubation Center (AIC) in the campus.

Innovation and development of skills are twin drivers of prosperity growth, national competitiveness, and the information economy. Rathinam Technical Campus has founded the Rathinam Startup School and the Innovation & Patent Cell to develop leading-edge technologies and to develop international skills for all sectors of Indian industry and society.

AIC RAISE creates a holistic ecosystem for social startups for maximizing profits and benefits to society and the environment. It is established under the prestigious Atal Innovation Mission (AIM) of NITI Aayog, Govt. of India.

AIC RAISE encourages and backups innovative startups with suitable physical infrastructure in terms of capital equipment and operating facilities, key domain knowledge support, coupled with the availability of sectoral experts for mentoring, business planning support, access to seed capital, market information, management, business strategy, industry partners, training and as well as critical networking.

The Startup School is one more feather in the cap of Rathinam group of institutions. The Vision of Rathinam Startup School to make the student dreams alive, helping them realize their Entrepreneurial Passion and Personality inside to foster the economic growth of oneself and the country. The Startup School is a full-fledged were furnished Institution with spacious office, classrooms, seminar cum conference hall,boardmeeting room students brainstorming cubic's fully equipped laboratories.

Since Rathinam Startup School had framed policies earlier, we got opportunity to present our policy among 10 Institutions selected all over the Nation.

The Institution has plans for the development of Strategic/perspective plan for the period from 2019 – 2024:

- To get NAAC accreditation by 2021.
- To get NBA Accreditation for the eligible department by 2022.
- To encourage faculty members to publish members in reputed International / National Journals with good impact factor.
- To intensify the activities of Institute Innovation cell for undertaking mini projects.
- To improve the Employability skills of the students.
- To become an Autonomous Institution by 2023.
- To conduct International / National conferences.
- To get research Centre recognition for eligible departments.
- To start Rathinam Start up School for new budding entrepreneurs.
- To assist budding entrepreneurs and innovators through ATAL Incubation Center.
- To establish new ideas into patents through Innovation & Patent Cell.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### **6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.**

#### **Response:**

According to the organogram guidelines, the chairman of the institution is the highest authority. Chairman, the skipper, being an academician with doctoral degree in Computer Science Engineering under Anna University.He directs, tracks, and plays a key role in academic decision-making, administration, and the institution's overall growth. Adviser plays equally an important role as that of the chairman. The decision taken and the developmental projects suggested by the chairman will be escalated and executed by the chief operation officer through the principal and Administrative officer of the institution

Chief operation officer, Principal, Dean Academics are the kingpins who are playing the key roles

mutually coordinating and integrates the roles and responsibilities and model- operandi of functions of the Head of the departments (HODs), Teaching and non-teaching faculty, students, Exam cell, placement cell, Library, Research and development, Rathinam incubation and innovation cell (RIIC), Research, Innovation and Patent cell (IPC), Rathinam start-up school (RSS), Industry Institute Partnership Cell (IIPC), Research board.

Chief operation officer, Principal, Dean Academics constantly, consistently monitor the sustained effective execution of the resolutions made and every week organizes meeting of the Heads to assets the progress and setbacks.

The head of the departments and other head in charges of the college who are mentored in the organogram are executing the resolutions and functions of various cells and clubs with the team of well-trained supporting staff contingent under the administration of Administrative officer.

Administrative officer of the institution monitors day-to-day administration purchase and maintenance allocation of funds for functions.

Next major role is played by the following cells/ committee in the successful conduct of all functions smoothly. College office affairs, admin office affairs, scholarship cell, transport cell, research cell, training and placement cell, college redressal anti-ragging committee, women development cell, higher education cell, academic audit cell, admission cell, student welfare cell, NSS and alumni association.

The above mentioned committees and cells are framed as per the guidelines of the higher-ups and regulatory bodies with lucid objectives and activities, helping in executing effectively in aligned with vision and mission of the institutions especially in caring out the academic, co-curricular, extra-curricular activities, soft skills training, placement training.

These committees meet every month to chalk out the activity action plan as prescribed by the institute and analyze the pros and cons of executing the activities as per the schedule. The committees also empowered to alternate the activities due to unprecedented occasions or unexpected incidence in the locality.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>
Link to Organogram of the Institution webpage	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

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	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation, Administration etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

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

#### Response:

The Employee is the main spring of Rathinam Technical Campus whose contribution will be in the optimum when the management ensures welfare of the Employee. Our Magnanimous Management with a big heart provides the following welfare Schemes.

#### Employee Provident Fund

EPF is being paid by the Management along with faculty contribution.

#### Leave Policy

Rathinam staff members have been given various types of leaves such as Vacation leave, Casual Leave, Compensatory Leave, Earned Leave, Medical Leave, Maternity Leave for ladies staff and special leave for their Marriage.

#### Education Scheme

- Rathinam Group employees' son/ daughter will be eligible for this scheme.
- Management will provide 50 % fees concession on actual tuition fees.

#### Hospital Tie up

We have tie up with Abinand Hospital, Sundarapuram, Coimbatore for availing Medical treatment for our students and staff in case of any emergency during their office hours.

#### Advance

All the employees of Rathinam Group are eligible for Salary Advance subject to their completion of 6 months of service in the Organization. The Salary advance shall be given to employees during festivals, Special purpose or to meet out the emergency expenses.

### Employee Subsidiary Food Policy

For the benefit of our employees, we provide food option to employees for them to enjoy good quality food at a concessional price. The Institution encourages self-driving and helps to get trained within the campus by having collaboration with Maruthi.

The Institution cultivates vegetables in our own organic farms and the yield is used in mess for the boarders. Also the yield is sold to the employees on a subsidiary rate.

### RTC rewards

The saying goes like this the reward for work well done is the opportunity to do more.

Our Institution keeps it as success mantra and recognizes the teaching staff members for their remarkable contribution for the growth of institution and student Community.

Knowledge is power; we do believe updating of knowledge is the need of the hour. Hence Sponsorship is provided for attending FDP, Seminars and Workshop. Innovative ideas are recognized with cash award Rs.3000 when the faculty published their article in Scopus and Web of Science. Where as in article published in SCI Journal will be awarded Rs.5000. Leadership qualities are they key for successful faculty and it is also recognized with a cash reward 5% of the grant sanctioned by the funding agencies for organizing conference, Seminar, Symposium, FDP and STTP. Institution repute is enhanced when the faculty presents a paper in National and International conference for which the Institution provides Scholarship. Faculties who have completed Ph.D are eligible for cadre promotion. The Predominant role of a faculty is providing good results; if the percentage goes above 80 academic excellence awards will be given. Diwali and Pongal festivals are celebrated with the Distribution of Sweets and Gifts. Sports activities are arranged for the faculties. Staff Association pool out many Staff marriage, Birthday function, monthly Department Lunch, Staff tour once in a year.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

**Response:** 42.69

#### 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

2019-20	2018-19	2017-18	2016-17	2015-16
66	45	48	49	19

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	<a href="#">View Document</a>

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

**Response:** 11

#### 6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
12	11	10	12	10

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres)	<a href="#">View Document</a>
Reports of Academic Staff College or similar centers	<a href="#">View Document</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	<a href="#">View Document</a>

### 6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).

**Response:** 5.05

#### 6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
01	02	17	04	06

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View Document</a>
IQAC report summary	<a href="#">View Document</a>
Details of teachers attending professional development programmes during the last five years	<a href="#">View Document</a>

### 6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

#### Response:

Appreciation, Rewards and awards are the real morale boosters which make the Teaching and Non Teaching members to work with double vigor and Zeal, which in turn enhances not only the image and repute of the Institution but also the performance of the students.

Our Institution has a well structured performance appraisal system for the Teaching and Non-teaching Staff Members.

Self introspection is the best parameter to assess one's potential in executing the assigned task. So we administer SWOT analysis for the Teaching and Non-teaching staff members. SWOT Analysis makes the most of what one have got, to their organization's best advantage. And one can reduce the chances of failure, by understanding what they are lacking, and eliminating hazards that would otherwise catch them unawares.

Through SWOT analysis, faculties there they express candidly all the form quarters. The form quarters includes understanding of one's main duties and responsibilities, their important achievements of the past year, the most and least elements of one's job interest, important aims and tasks in forthcoming Academic Year, action that one could be taken to improve their performance and training/experiences that one required that would make them beneficiary. These form quarters helps the Institution to get a clean picture about an individual.

In addition to self SWOT, HOD is assessed by the performance of the team on the basis of Department Pass percentage based on University exam result, Faculty monitoring and review which includes Lecture Audit, Course coverage report, Faculty Monitoring Based on faculty meeting one to one, Completion of faculty improvement & development plan of each faculty report was taken. HOD is also assessed by the preparation of students for placements, his / her contribution in the field of Research and Consulting based on the Fund generated, feedback from the faculty members, students feedback and finally a Questionnaire will be administered to the students and based on the Survey marks will be rewarded.



For teaching staff, first and foremost students feedback followed by HOD, his / her contribution in academic audit, attendance, their contribution in Career Guidance to students and research works and consultancy, based on this appraisal will be assessed. The rapport between tutor ward and encouragement of the students in industry research and Consultancy is also considered. HOD provides the feedback of faculty on the basis of Class Management, Subject clarity/ delivery, Quality of documentation and Team work.

Finally for non teaching staff appraisal is focusing on Job knowledge as demonstrated by carrying out experiments in the laboratory, students feedback, attendance and Punctuality, Maintenance of Lab; signage, procedure and instructions, Record Maintenance, Execution of the assigned task on time, Maintaining equipments in Lab with working condition, ensuring availability of equipment during the schedule Lab class and finally HOD's feedback, based on this appraisal will be assessed.

This Systematic process enabled the Institution to reach further higher in achievement.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

#### Response:

The Institution has a fool proof structure for internal and external auditing system. The internal auditing is done by the Institution's financial committee. The committee takes utmost care in scrupulous verification of income and expenditure details and the detailed report of internal audit is submitted to the management of the institution through principal. External audit is conducted once in every year by an external agency.

The Process of effective and efficient monitoring of financial resources is as below:

The Head of the Institution submits a proposal on budget allocation, by considering the recommendations made by the heads of all the departments, to the management.

The Organization budget includes recurring expenses such as salary, electricity, internet charges, maintenance cost, stationery, other consumable charges etc., and non – recurring expenses like lab equipment purchases, furniture and other development expenses.

The accounts department monitors the expenses as per the budget allocated by the management.

#### Process of the internal audit:

At regular intervals, all the vouchers are audited by an internal financial committee. The expenses under each head is checked by verifying the bills and vouchers. If any variation or flaw is found, the same is brought to the notice of the Principal. A legal audit is conducted at the close of financial year. The



Management reviews the audit report .The disbursement statements are audited by the Accounts department before it is submitted to the Principal. At the beginning of every financial year, proper utilization of financial resources is planned. Accounts department takes care of the collection of tuition fees, salary distribution, tax payment, and loan distribution purchase orders for the laboratory equipment, teaching aids, furniture, facilities, and payment of maintenance bills. The institution gives utmost importance to the maintenance of proper accounts. College ensures the smooth conduct of auditing. There are no flaws or objections since the institution follows a good system of internal controls like calling quotations, comparison of rates, preparation of purchase order etc. Approvals are obtained at every stage of such implementation and due verification of goods and services after delivery

#### Process of the external audit:

The accounts of the college is audited by a seasoned Auditor regularly as per the government rules. The auditor confirms that all transactions are duly authorized after the audit and the final report is sent to the management for further review. Any discrepancy, in the process of audit would be viewed immediately along with the supporting documents within the prescribed time limits.

All these mechanisms reveal the transparency being maintained in financial matters and adherence to financial discipline to avoid defalcation of funds or properties of the institution at

all levels. The audited statement is duly signed by the authorities of the management and the auditor.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

Response: 0

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

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	<a href="#">View Document</a>

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

#### Response:

The institute has a well-defined financial setup which ensures effective and flawless utilization of finances for academic, administrative and developmental activities which help to implement the institute's vision and mission.

The master key for taking financial decision and related matter are Finance Committee and the Governing Council who constantly monitor and encourage for the proper utilization of allocated funds as per need. The funds are distributed to each department during the preparation of yearly budget.

Financial matters are firmly monitored by the accounts section. In case of any need where the financial support is required, proper demand in writing is made from the concerned Department and it is released on the same day.

We have a dedicated strong financial team in place, which will organize optimum effective utilization of funds. Financial Planning is prepared well in advance for the organization with efficient Budgeting involving the various Academic Departments and Administrative Sections of the Institute. Every year a budget is prepared which involves projected revenue and general expenditure and capital expenditure so that we can manage the funds effectively and planning well in advance. While preparing the budget a meeting will be convened by the Principal with all the department heads and their requirements which include lab requirements, research, co-curricular, extracurricular activities etc., in the annual budget. After reviewing of the budget by Principal, the final consolidated budget is forwarded to the Management for approval.

The institute is being run with self sufficient funds by generating the cash inflow from tuition fee from students and other miscellaneous incomes. The management will review the financial activities through scrutiny of budgets versus actual in every quarter which will ensure whether the finance utilization is going in correct direction or else management recommends for alternate strategies.

Optimum utilization of funds is ensured through:-

Sufficient funds are allocated for effective teaching-learning practices that include Orientation Programmes, Workshops, Inter departmental activities, training programmes, Conferences that ensures quality education. Budget is utilized to meet everyday operational and administrative expenses and maintenance of fixed assets. Faculty members are encouraged to attend Faculty Development Programms, seminars etc., and the expenses are taken care by the management. Enhancement of library facilities needs to augment learning practices and accordingly the funds are utilized every year. Requisite funds are utilized for development and maintenance of infrastructure of the Institution. Enough funds are allocated for social service activities like NSS, Blood donation camps, Eye camp, Road safety awareness programs, CSR activities etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste 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

#### Response:

The main functioning of the Institutions IQAC( Internal Quality Assurance Cell ) is to make quality the defining element of higher education in Rathinam through a combination of self and external quality evaluation, promotion and sustenance initiatives.

The IQAC is headed by the Chairman and consists of Senior Administrative officer, Advisor, one nominee from local society, two members from the Management, One nominees from Employers /Industrialists/stakeholders, Industry Expert Principal, Coordinator of the IQAC, All HODs, Two Senior faculty members, Placement officer. The IQAC will meet on the last Saturday of every month. The primary aim of IQAC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution. The main goal is to promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

IQAC shall evolve mechanisms and procedures for

- a) Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks;
- b) The relevance and quality of academic and research programmes;
- c) Equitable access to and affordability of academic programmes for various sections of society;
- d) Optimization and integration of modern methods of teaching and learning;
- e) The credibility of evaluation procedures;
- f) Ensuring the adequacy, maintenance and proper allocation of support structure and services;
- h) Sharing of research findings and networking with other institutions in India and abroad.

Functions expected of the IQAC are:

1. Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution.
2. Facilitating the creation of a learner-centric environment conducive to quality education and faculty

maturation to adopt the required knowledge and technology for participatory teaching and learning process.

3. Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.
4. Dissemination of information on various quality parameters of higher education (SOP).
5. Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
6. Documentation of the various programmes /activities leading to quality improvement (AQAR)
7. Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices.
8. Development and maintenance of institutional database for the purpose of maintaining /enhancing the institutional quality.
9. Development of Quality Culture in the institution.

#### BENEFITS

IQAC will facilitate / contribute

- a) Ensure heightened level of clarity and focus in institutional functioning towards quality enhancement;
- b) Ensure internalization of the quality culture;
- c) Ensure enhancement and coordination with in the institution through various activities.
- d) Provide a sound basis for decision-making to improve institutional functioning;
- e) Act as a dynamic system for quality changes in HEIs;
- f) Build an organized methodology of documentation and internal communication.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities ( For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental**

## **improvements made for the preceding five years with regard to quality and post accreditation quality initiatives )**

### **Response:**

IQAC ensures the creation of a learner-centric environment beneficial to quality education and faculty maturation. IQAC develops and apply the quality parameters for various academic and administrative activities of the institution. The IQAC constantly monitors the teaching learning process through their organizing committee members by conducting meetings at regular intervals.

Proper planning of all academic activities is done and it gets reflected in the Institutional Academic calendar which is prepared well in advance before starting of the semester.

Individual faculty members prepare systematic lesson plan along with correlation to the Course Outcomes (COs), Program Outcomes (POs) and Program Specific Outcome (PSOs). They prepare a course file which contains university syllabus, previous year question papers, question bank, Internal question papers, slow learner activity schedule and course attainment document. Course file is verified by the Academic Coordinator, HoD and Principal.

Teaching plan, lecturer notes and question bank are posted in the Learning Management System for both theory and lab courses. ICT enabled lectures in addition to black board teaching. IQAC mainly monitors students' attendance and performance. As per the guidelines from the IQAC cell, the process of conducting internal exams and evaluation functions well.

In accordance with the outcome based approach, the question papers for the internal exams are prepared with a specific pattern which will enable the assessment of the attainment of the Course Outcomes (COs) for each course. IQAC insists on to organize workshops to enrich knowledge, seminars on quality related themes and promotion of quality circles.

Prompt communication to parents about their children's performance and attendance is taken care through Learning Management System. Class Committee meetings are regularly conducted with student's feedback is administered and appropriate steps are taken to enhance the teaching-learning process.

Feedback is properly analyzed and shared with the Principal, Deans, HODs and individual faculty members.

Parent-teacher meeting is conducted once in a semester to enable candid discussion, obtaining parent feedback and implement improvement measures. The Institute believes that audits, both internal and external are to be conducted periodically to ensure effective implementation of academic policies for ensuring and sustaining quality. The Internal Audit Committee conducts audits at regular intervals. The auditors verify the lesson plan, syllabus coverage as per plan, course materials, class log, assignments given to students, Internal Test Evaluation, steps taken for slow learners, Course Analysis Report to CO PO attainment etc.,

The Principal, Head of the departments and Academic monitoring committee members measures the delivery effectiveness of teaching methods using structured process and procedure formulated by IQAC. The performance of the students and quality of teaching learning process is constantly monitored as per the IQAC audit procedure. The measures for improvements are implemented, based on the IQAC

recommendations.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

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

File Description	Document
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Upload details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste web link of Annual reports of Institution	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

##### Response:

Gender sensitization states the raising sensitization of gender equality concerns. It helps people in probing their personal attitudes, views and questioning the realities of both sexes. Gender sensitization make people understand the difference between sex and gender, how gender is socially constructed and therefore the stereotypes around gender roles. It helps them determine which assumptions in matters of gender are valid. Need of gender sensitization is to create attentiveness among the working professionals about the importance of gender sensitivity in organization. Without being sensitive to the needs of a specific gender, an individual may refrain from understanding the opposite gender. Gender is Socially Learned behaviour, based on social expectation from Men & Women. The women and youngsters are most vulnerable group of this example. And it's the undue pressure on Boys & Girls to live up to the established norms of Masculinity & femininity. Girls endure unwarranted social control, discrimination & domination. Boys discouraged from being emotional, gentle or fearful. Gender Sensitization gives a transparent and precise view about Gender and help to know that GENDER isn't about "Women" it's about "People".

In addition to creating a centre for women's empowerment and gender equality, gender equality policies are one of the RTC's priorities across the entire university and enable specific achievements with the action from all areas.

Rathinam Technical Campus upholds certain values and principles, such as equality, inclusion, and respect for human dignity, fairness and justice for all. We also admit the support for a diversity of talent. We renovate our obligation in teaching future generations and being a role model. We also commit to respond to any existing inequalities.

Rathinam Technical Campus, through its proactive faculty, staff and student programs, will annually look into the following:

- Encouraging communication with respect for human dignity and social responsibility.
- Allow the recognition of multidimensional representations of women and men.
- Endorse communications that represent unbiased representations of gender equity.
- Conduct workshops that promote multiplicity and gender-sensitive communication for members and employees
- A senior role in every campus whom faculty and students can reach out in matters of need related to gender-related communication.
- Observing and assessment mechanisms for implementation and their follow-ups.
- Showing regular awareness-raising activities among students and staff
- In classes, faculty members encourage working together, fair representations for leadership roles, facilitate objective participation, gender balance in team projects when possible, encourage students meeting with faculty, having sessions with faculty members of the proper gender for related scenarios, grievances and counselling during class hours and at hostels.
- A network of gender equality advisers facilitated by our Center for Women Empowerment and

Gender Equality.

- Balanced gender quota in hiring committees
- Our student code of conduct stimulates gender parity at the governance level.

File Description	Document
Link for annual gender sensitization action plan	<a href="#">View Document</a>
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>

### 7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

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

File Description	Document
Geotagged Photographs	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

**Response:**

#### Methods for Waste Management

In our Rathinam Technical campus, we are very keen on reducing the wastages which is hazardous



**to the environment. The following are the types of wastages and their maintenance in our campus.**

1. Solid waste management
2. Liquid waste management
3. Water Recycling
4. E-waste management

### **Solid waste management**

In this category, food wastes from Hostels and various garbage in and around the campus is included. Daily, approximately 30 kgs of food is wasted in hostels. We collect the food wastes in proper container and give to pig bunny. Next, the garbage will be collected by our housekeepers/menial Staffs daily and they segregate degradable and non-degradable items. The wastages were loaded by the separate vehicle and carried to the corporation depot.

### **Liquid Waste management**

The proper drainage facility is available in our campus. The separate canals were built to collect the liquid wastes. The same will be utilised for irrigation purpose and minor manure for our campus garden.

### **Water Recycling**

The sewage treatment plant is maintaining inside our campus. The main purpose of STP is to recycle the water from the septic tanks. Then the recycled water is utilised for irrigation purpose in our campus gardens.

### **E-Waste management**

Since the college was started in 2011, no major disposal of electronic waste had been reported. The printer cartridges and toners are refilled thrice and used. Major communication is executed by paperless office as reported earlier. The College strictly adheres to pollution control norms of the government. More than 50% of the buildings are designed and constructed eco-friendly utilizing natural cover and breeze. This had reduced power consumption by 40%. Additional capacitors were installed to increase the power factor, thus reducing the electricity consumption. The lights of the green campus had been replaced with more number of LED bulbs than CFL bulbs and tubes. Window air conditioning system had been replaced with multi split units for maximizing the efficiency.

### **Other forms of wastage maintenance in our campus:**

- Minimize the usage of paper wastages and plastic files.
- The batteries, glass, print cartridges are utilized in eco-friendly manner.
- Activate energy saver mode in computer systems when not in use in our labs.
- Turn off unnecessary lights and fans when not in use in all classrooms and faculty rooms.
- Sufficient collection units must be installed for e waste
- The paper waste are sent for pulping units.

File Description	Document
Any other relevant information	<a href="#">View Document</a>
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View Document</a>
Link for Geotagged photographs of the facilities	<a href="#">View Document</a>

#### 7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

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

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

#### 7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. landscaping with trees and plants

**Response:** Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	<a href="#">View Document</a>
Geotagged photos / videos of the facilities	<a href="#">View Document</a>
Any other relevant documents	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

### 7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

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

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>
Certification by the auditing agency	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

### 7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Disabled-friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for persons with disabilities ( Divyangjan) accessible website, screen-reading software, mechanized equipment
5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

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

File Description	Document
Policy documents and information brochures on the support to be provided	<a href="#">View Document</a>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Details of the Software procured for providing the assistance	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

### 7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities

(within 500 words).

**Response:**

We trust in unity in diversity that's why our students respect the different religion, language and culture. We feel the college is our second home and all faculties like a family member. We greet and wish each other at different festivals and invite them to have a feast to get introduced with ones culture to have amicable relations and to maintain the religious, social and communal harmony.

The diversity in India is unique. Being a large country with large population. India presents endless varieties of physical features and cultural patterns. It is the land of many languages it is only in India people professes all the major religions of the world. To represent our Indian culture, on the eve of our college annual gathering we organize a traditional dress competition and fashion show. In this competition students wore the different attire representing the different states, religions and cultures. Through this activity students get acquainted with the different culture of our nation and help to develop the tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. This also creates the inclusive environment in the college and society.

We, Rathinam technical Campus encourage multi-faceted talent search programs as well as to strengthen our cultural and moral values of the soil. Also students from various States of India and from various countries are studying in our campus.

Different sports and cultural activities organized inside the college promote harmony towards each other. Commemorative days like Women's day, Yoga day, Cancer day, AIIDS along with many regional festivals like Pongal and Christmas are celebrated in the college. This establishes positive interaction among people of different racial and cultural backgrounds.

There are different grievance redressal cells in the institute like Student grievance redressal cell, Women grievance redressal cell which deal with grievances without considering anyone's racial or cultural background.

Institute has code of ethics for students and a separate code of ethics for teachers and other employees which has to be followed by each one of them irrespective of their cultural, regional, linguistic, communal socioeconomic and other diversities.

To improve the social responsibilities of Student community, more number of CSR activities will be conducted by every department monthly once. Students can directly involved with the people who are in below poverty line. We strongly believe these communications will spark the students to do something good for their society. Our NSS students involved in the recreation of lives during natural calamities like flood.

Also, The Rathinam Groups of Institution is conducting a brand new event **Rathinam Enthusia** National level Techno Cultural Management Fest. 100+ Technical events, 50+ Workshop events, 30+ Cultural events on March month every year. Festival for students, Participants get 1million worth cash prize. More than 5000 students from various parts of India will participate in the mega event and show their talents.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**

**Response:**

RTC undertakes different initiatives by organizing various activities to sensitize students and employees to the constitutional obligation: Values, Rights, Duties and responsibilities of the citizens.

On 26th of Nov every year, Constitution day will be celebrated at RTC by inviting guests from various concerns who had served in Government offices. Once, we invited a veteran freedom fighter to preside over the function as Guest of honour and he narrated the fundamental rights, Duties, Values and responsibilities of citizens as stated in Constitution of India. He appealed all to revere the sacrifice of the freedom fighters and how Kumaran has sacrificed his life to safeguard the national flag. So we should respect the National Flag and National Anthem. Our constitution provides for human dignity, equality, Social justice, Human rights and freedom, Rule of law, equity and respect and superiority of constitution in the national life .The whole country is government on the basis of the rights and duties enshrined in the Constitution of India.

Our University has a compulsory paper on the Professional Ethics, Human Rights and Environment Science Engineering at Degree level across all engineering disciplines to create awareness and sensitizing the students and employees to constitution obligation .

As a part of strengthening the democratic values. Professor Mr.Santhoskumar has nominated as NSS Coordinator under whose guidance, Electoral literacy club and voters awareness forum are created to literate the students and the general public about the Democracy. A voters pledge programme was organized 25th Jan 2020 for students and the faculty members at RTC, Coimbatore. Awareness procession was also organized at Uyilatti Village, Nilgiris in the Third week of July 2018.Earlier activities relating to this task were undertaken by our NSS committee.

Every year Republic day is celebrated on 26th Jan by organizing activities highlighting the importance of Indian Constitution. Similarly constitution day also will be celebrated on 26th Nov every year. Independence Day is also celebrated every year to highlight sacrifice of the martyrs and freedom fighters and importance of Indian constitution.

As a part of CSR, we extend our helping hand by providing sweets, or noon meal to orphanage or destitutes on Gandhi Jeyanthi, Children's Day and all other leaders birthday.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

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

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	<a href="#">View Document</a>
Code of ethics policy document	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**

**Response:**

Rathinam Technical Campus is committed to promote ethics and values amongst students and faculty to encourage the same, University organizes National festivals as well as Anniversaries for the great Indian Personalities this include

1. Teachers day (5th Sept) as birthday of great teacher Dr. Sarvapalli Radhakrishanna
2. Engineers day (15th Sept) The Birth anniversary of Sir M. Visvesvaraya the great Engineer of the country.
3. International Yoga day (21st June)
4. Independence day (15th August)

5. Republic day (26thJan)
6. World environment day (5th June)
7. NSS day (24thSept)
8. Pongal Celebrations (11th Jan)
9. Cultural Festivals (Mid of March)

Our students are on a mission towards better India by breaking the boundaries of religion and caste. Thoughts of great Indian personalities sowed into the young minds through the exhibitions and programs conducted on these days. Every year our institute organizes the national festivals and birth / death anniversaries of the great Indian personalities. Staff and students get to know the importance of national integrity in the country in general and their role in it in particular.

1. 26th January Republic Day - Republic Day is celebrated every year on January 26 to commemorate the adoption of our constitution. Various formal events including flag hoisting and march-past are organized on this day, which are followed by “constitution awareness program” in which students and staff members are made aware of their duties towards our nation and rights given to them by our constitution.

2. 15th August Independence Day - It is celebrated every year on August 15, and is a grand event marked with the flag hosting by the Chief Guest and well-practiced march-past by many teams of Rathinam Technical campus. 3. 5th September (Dr. Sarvpalli Radha Krishnan Birth Anniversary) - On 5th September, we celebrate Dr. Radhakrishnan’s birthday as Teacher’s Day with great fervour. The students organize a program for the teachers.

4. 2nd October Mahatma Gandhi Birth Anniversary - A standout amongst the most mainstream events in India and one of the three national occasions, Gandhi Jayanti is praised in our Institute on 2nd October of consistently to stamp the birth commemoration of Mahatma Gandhi. The day is announced as a national occasion and all institutes and workplaces are closed on this celebration.

5. 31st October Ekata Divas(Birth Anniversary of Sardar Patel) - It is celebrated as National Unity Day.

6. 15th September Engineers day (Birth Anniversary of Sir Visvesvaraya) – We celebrate this day on 15th September consistently as an exceptional tribute to the best Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya.

7. The Rathinam Groups of Institution is conducting a brand new event **Rathinam Enthusia** National level Techno Cultural Management Fest. 100+ Technical events, 50+ Workshop events, 30+ Cultural events on March month every year. Festival for students, Participants get 1million worth cash prize. More than 5000 students from various parts of India will participate in the mega event and show their talents.

File Description	Document
Link for Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>
Link for Geotagged photographs of some of the events	<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**

**Title of the Practice: Rathinam Innovation and Skill Development Centre (RISC)**

**Objective of the Practice:**

In the initial stage Rathinam Technical Campus Students enter as introvert and in the final year become an Innovator/incubatee in their desired field. To tap out the inherent potential, we give a platform to showcase the students' talent. We have established the centre named Rathinam Innovation and Skill Development Centre (RISC).

It is focussed on enhancing Students' creativity, encouraging innovative ideas and empower their innate skills to face the challenging world dauntlessly.

We implement these goals through three major pillars.

1. Student Club.
2. Start-up School.
3. Centre of Excellence.

**Context:**

Students enter the campus as clay and no room for creativity and design thinking. It is due to the practice in schooling and they were trained to memorise and reproduce as it is in the text. Our mammoth task is how to inspire and motivate them to share their novel and innovative ideas which may be simple but through our encouragement and make them an icon in the desired field.

**The Practice:**



In order to find the creativity from the students, we have established 8 clubs and various events will be conducted through clubs every year. Students can enroll as member/participate in any of the clubs in which they interested. One of the clubs called “Sky watching Club” and “Design Elaborative Talk (DET Talks)” conduct ideation camp among the students every month. Through these kind of activities the creativity of the students are enhanced. From those kind of creative ideas, we selected the creamy students and train them to take next level. The next level of training will be provided by Rathinam Startup school in which we provide entrepreneurship skills among the students. Also, we have more than 5 Centre of excellence provided by various companies. Students who are interested in skills development they will be trained through center of excellence. We have indomitable faith that such activities can develop students not only in their studies but also to become future incubatee.

### **Problems Encountered and Resources Required**

1. The greatest challenge faced by the students and faculty is how to strike a balance between fulfilling the academic requirement and enhancing the skill training.
2. We face time constraint to fix domain experts, though we have companies around our campus.
3. Infrastructure requirement for certain value addition program is quite high.
4. To inspire the students to involve the activity took more time and it let to delay in segregation.

### **Success Stories**

Let's have a bird's eye view of the success stories of RISC.

**1. All India Ranking:** Our Institution's Innovation Council Cell is awarded with 5 Star Ranking by MoE's innovation Cell. We are one among the 10 Institutions in India who implemented NISP and selected to mentor other institutions to share our rich experience in execution.

**2. Placements:** By our Centre of Excellence activities, more students are benefited by upgrading their skill sets. In the academic year 2019-20, 81% of eligible students got placed in various companies with the highest salary package.

### **3. Laurels to the Institution:**

- a) During the time of Covid 19, our students Innovation in hand sanitizer/twin bottle innovation reached the community around us. This has created a partial impact on the admissions for 2020-21 that we witnessed a drastical improvement compared to last two years.
- b) Our third year IT department student won first prize in the world level event “Big data Boss” in Canada.
- c) RTC is selected for National Innovation Start-up policy (NISP) as one of the 10 institutions in India to mentor all other Institutions.

### **Best Practice: 2**

**Title of the Practice: Rathinam for Society (R4S)**

## Objectives of the Practice

The core objective of the Institution is “Transform the youth into National Asset”. It breaks the mind-set of the students that Education is not merely to acquire knowledge and getting a job. The real focus of the education is “To make the students imbibe humane values and be a responsible citizen by rendering his/her talent and skill for the societal development. To achieve this mission we train the students with our best resources.

Students who are talented but economically poor are sponsored by our magnanimous management under “Free ship” i.e. free scholarship and it shows the remarkable increase intake and in performance of the student.

To endorse the role of RTC in the welfare of the community activities, Our AIC RAISE (Atal Incubation Centre) supported by ATAL Incubation Mission, NITI Ayog, Govt. of India, NSS, Rathinavani 90.8 Community Radio and Green campus initiatives play pivotal roles.

### The Context:

Corporate social responsibility (CSR) activity is the prime of our concern to manage the social, environmental and economic effects of its operations and in line with public expectations. It also can improve the students’ involvement towards the career, discipline and social consciousness.

### The Practice:

Every Engineer has a responsibility to find the problems in the society that people face in their day today life. As an Engineer, we train our Students to ideate the problem towards solution.

**AIC RAISE Incubation Centre (AIC)** – AIC RAISE creates a holistic ecosystem for social startups for maximizing profits and benefits to society and the environment. It is established under the prestigious Atal Innovation Mission (AIM) of NITI Aayog, Govt. of India. ?

AIC RAISE encourages and backups innovative startups with suitable physical infrastructure in terms of capital equipment and operating facilities, key domain knowledge support, coupled with the availability of sectoral experts for mentoring, business planning support, access to seed capital, market information, management, business strategy, industry partners, training and as well as critical networking.

**NSS** activities motivate students to work for the development of society. The student directly learn from the society. Our NSS team organized events like Blood Camp, Road safety programs, Clean India activities. Blood camp will be organized by our Institution every year. Faculty members and Students will actively participate in the event.

**Rathinavani 90.8** – Our College has its own community radio “Rathinavani 90.8” broadcasts 24 hours of transmission daily. It mainly focuses on “Issues in nearby areas and sent them to government officials. In covid19 locked down also the awareness programs were broadcasted without break.

**Green Campus** – Pollution free campus is the watch word of Rathinam Technical Campus. To reinforce

the mission, we use Solar panels generating 220 kW power supply. It is availed by our College and Companies located in our campus. All class rooms and departments have LED lights to minimize the consumption of electricity.

#### **Problems encountered and resources required:**

Our Rathinavani radio is the community radio and will not get any financial support from advertisements.

#### **Evidence of Success:**

- Our College received the award from “SEEE” group, an NGO for higher number of Blood donors in their organized blood camps in the year 2017-18.
- Rathinavani 90.8 community radio received the appreciation by various NGOs and Government organizations for its continuous support for the community.
- Our Incubate “No food Waste” startup received a prestigious recognition from various organizations.
- Also, the “No food Waste” startup was personally appreciated by Prince Charles on 13th-March'19 and received the award on 14th March'19 in a wonderful function in London.
- Two of our Students’ startups received fund in our AIC Raise. The details are listed here.

1. "Backyard Creators" - Cohort 2.0 Startup Incubated by AIC Raise - Winner (1st Position) of “BRINC” International Empowering Youth Hackathon with 2 Lakhs INR cash prize

2. Solavio Labs - Selected for the Accelerator Program of Canada based Energia Ventures along with funding from the New Brunswick Innovation Fund (a Canada based Venture Capital)

<b>File Description</b>	<b>Document</b>
Link for Best practices in the Institutional web site	<a href="#">View Document</a>
Link for 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:**

It is very much vital/essential in the overall progress and development of the institution. Keep this as the basic premises our college has its own mission statement accordingly we always attempt to function uniquely, innovatively and distinctively from the opposite institutions. As far as our mission and vision are concerned, college always attempt to implement the distinctiveness within the work. RTC is extremely keen on aiding personal commitment to the tutorial success of the scholars and thus the tutorial committee consisting of Principal / Director, senior faculty members and Examination Coordinator prepare the tutorial

calendar well beforehand before the commencement of the session/semester. The faculty members before the commencement of semester prepare the lesson plan, and make it available to the students. Enormous efforts have been put in the past few years to enhance the Teaching – Learning environment and introduced novel techniques into activity based learning.

Following are the methods adopted to rework the tutorial environment:

Changing the teaching methodology as flipped classrooms by encouraging the faculty and students to improve their skillset.

Extensive use of online – content and other Video lectures to support the Class – room teaching.

Students are encouraged to present poster and oral paper presentations.

**Counseling system:** Every Faculty member is allotted 10-15 students to whom he/she acts as a mentor. The mentor identifies the tutorial and private problems of his/her ward and have an honest relationship with their parents and eradicate the issues amicably. The wards are encouraged to participate both in curricular and extra- curricular activities.

- Each department arranges guest lecturers periodically addressed by the eminent persons from Industry, Academic Institutions and Research Institutions.
- Eminent experts of National repute are invited from academic /organization /industries for seminar, workshop, conferences etc.

In addition to the classroom interactions, following are the opposite methods of learning experiences provided to the students:

- Project work
- Short term Industrial visit and Internships.
- Seminars/ Symposiums/ Workshops
- Paper presentations/ Group discussions

Providing access to e-journals and e-books by use of ICT in delivering and learning process Emphasis is laid on to obtain feedback from parents, students, faculty members and alumni through informal contact to obtain information about qualitative changes which are required. Feedback System Students give feedback about the school at the top of every session or semester through the scientific questionnaire. Feedback is taken from the oldsters of the wards. Feedback is also taken from alumni The students play a major role within the mega functions like Annual day, Sports day etc., which are being organized by the school and inculcate the qualities of Leadership traits, cooperation, co-ordination and team work and enhance amour-propre. Personality development programs and seminars are being conducted from the first year to improve communication skills, soft skills, presentation skills of the students to overcome stage fear. Social Responsibility Activities like Go Green Activity through sapling plantation, Blood Donation, Visiting Hospitals & Interacting with patients and distribution of nutritious food, plantation and visiting nearby villages and helping them according to their requirements. Achievement: Improved students understanding

in domain knowledge. Improved results and pass percentage. Reduced backlogs and detention. Improved placements and opting for higher studies. Make the student competent, compassionate citizens.

? College has permanent affiliation to Anna University and AICTE. Also, recognized under 2F of UGC. Industry interaction and liaison is an ongoing process which continues throughout the year in the form of student's industrial training, placements, Outdoor catering (ODC), Industrial visits, guest lectures, demonstrations, evaluation of competition etc.

? To give the students a first-hand update of the current practices, professionals from the industry are appointed as adjunct faculty.

? College has membership of IEEE, CSI and Texas Instruments. This provides a platform for the faculty and students to participate in various workshops, lectures and seminars organized by these associations.

? Faculty members attend refreshers training programs in various star hotels every year to update the skills and wisdom. ? Additional intake for RTC course as well has been approved and started.

? College has a research centric atmosphere which encourages the faculty and students to conduct the research.

? More number of research papers have been published. In the year 2019-20 more than 150 research papers have been published by the faculty members in various national and International Journals. Few of the publications are the joint publications of scholars and school .

- Faculty members are invited as resource person for seminars, guest lectures, and workshops on Career Counselling, Research Methodology and Accreditation procedures.

- College has a research cell which encourages students to participate in research activities. Incentives are going to be given to school members those that published papers, filed patents or proposals. Students are also motivated to participate in various AICTE events like Hackathons. 1 team was shortlisted for the final round of national level Hackathon on 2019-20. College Society relationship Activities (CSR): In our RTC, The CSR Activities are made as a compulsory one in our Academic calendar. Monthly at least one CSR activity must be done by each department.

? College also participates in various activities where the motto is to reach out to the common people and give back to the society.

? Consultancy services are provided in areas of 'Product Development', 'Training & Development', 'other operational areas' and 'conduct of Academic Audits'.

? College organizes Annual Grant event "Enthusia" – an enormous cultural and techno fest. More than 5000 students participated from various states of India.

? The students are given extra training to participate in the competitions for which dedicated faculty members are assigned from each department.

? Last but not the least; College solicits feedback of student on teaching and infrastructure. Regular Course Monitoring committee meeting is conducted every month with all the Class Representatives. Mentor-

mentee system is followed for the students and Teaching faculty, it is monitored through buddy evaluation system and organizes a Faculty improvement programmes.

File Description	Document
Link for any other relevant information	<a href="#">View Document</a>
Link for appropriate web in the Institutional website	<a href="#">View Document</a>

NAAC

## 5. CONCLUSION

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### Additional Information :

- Ranked among top 150 Institution in India by NIRF 4 years in a row.
- Ranked 5\*\*\*\*\* by IIC ranking in 2020.
- NBA Accreditation for B.E CSE
- 15+ National Awards
- 20+ MOU signed
- 20+ centre of excellence
- AIC Raise
- 2nd rank in TNEA Admission 2020 among non-autonomous colleges in Coimbatore.
- Our watchword is “Learning by Doing”.
- We provided wider range of exposures like IV, Projects, Internship with hands on experience.
- Choice making is given to choose electives for the students.
- Our thrust areas are effective communication skills, soft skills and personality development courses, CCA, ECA, Practical training in labs, seminars, symposiums are organized.
- Our Institute motivates and recognize with reward and award and scholarship for doctoral for faculty members.
- Faculty members are encouraged to focus on Research and patent registration.
- UG and PG students are motivated to go for innovative patent designing and enrich entrepreneurship skills through AIC Raise.
- Students are properly guided to go for new ventures for start up.
- Foster scheme is effectively implemented to gear up the performance of the slow bloomers.
- Experts from industries, incubatees are invited to address the students on how to face the challenging new world.

### Concluding Remarks :

Rathinam technical campus is ranked 2nd in TNEA admission for non autonomous colleges in Coimbatore. We have holistic approach and enhances overall development of the students by providing equal opportunities to excel in academics as well as in CCA and ECA .Special or unique talents of the students are showcased and rewarded by the management. Rathinam Technical campus vision mission are developing the engineer with societal commitment and make them responsible citizens of the country. The institute has upgraded the facilities and infrastructure caters to the need of the society and industries which in turn provide placement offer to the students. We also update the methodology of teaching with 21stcentury pedagogic research environments. The alumni association plays a pivotal role in exposing the expertise of the juniors by providing exposure in Entrepreneurship skills and the various platforms that can be tapped out. There are 20 IT companies housed in our campus which are the source of inspiration to the student’s community and make them to get down to their studies and reach the pinnacle of performance.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p><b>Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented</b></p> <p>1.2.1.1. <b>Number of Programmes in which CBCS / Elective course system implemented.</b>            Answer before DVV Verification : 7            Answer after DVV Verification: 10</p> <p>Remark : DVV has made the changes as per IIQA.</p>																				
1.2.2	<p><b>Number of Add on /Certificate programs offered during the last five years</b></p> <p>1.2.2.1. <b>How many Add on /Certificate programs are offered within the last 5 years.</b>            Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>25</td> <td>22</td> <td>18</td> <td>18</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> </tr> </tbody> </table> <p>Remark : DVV has made the changes as per IIQA.</p>	2019-20	2018-19	2017-18	2016-17	2015-16	25	25	22	18	18	2019-20	2018-19	2017-18	2016-17	2015-16	10	10	10	10	10
2019-20	2018-19	2017-18	2016-17	2015-16																	
25	25	22	18	18																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
10	10	10	10	10																	
3.3.1	<p><b>Number of Ph.Ds registered per eligible teacher during the last five years</b></p> <p>3.3.1.1. <b>How many Ph.Ds registered per eligible teacher within last five years</b>            Answer before DVV Verification : 13            Answer after DVV Verification: 00</p> <p>3.3.1.2. <b>Number of teachers recognized as guides during the last five years</b>            Answer before DVV Verification : 8            Answer after DVV Verification: 0</p> <p>Remark : Ph.D certificate has not provided by HEI.</p>																				
3.3.2	<p><b>Number of research papers per teachers in the Journals notified on UGC website during the last five years</b></p> <p>3.3.2.1. <b>Number of research papers in the Journals notified on UGC website during the last five years.</b>            Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2019-20	2018-19	2017-18	2016-17	2015-16															
2019-20	2018-19	2017-18	2016-17	2015-16																	



204	146	11	41	9
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Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
150	120	8	15	5

3.4.2 **Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years**

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
6	6	4	3	3

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

4.1.3 **Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)**

4.1.3.1. Number of classrooms and seminar halls with ICT facilities

Answer before DVV Verification : 32

Answer after DVV Verification: 24

4.2.4 **Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the last completed academic year**

4.2.4.1. Number of teachers and students using library per day over last one year

Answer before DVV Verification : 176

Answer after DVV Verification: 35

Remark : DVV has made the changes as per average of teacher and students using library per day on (dates)

5.2.2 **Average percentage of students progressing to higher education during the last five years**

5.2.2.1. **Number of outgoing student progression to higher education during last five years**

Answer before DVV Verification : 17

Answer after DVV Verification: 00

Remark : Outgoing students certificate has not provided by HEI.

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

5.3.3.1. **Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
48	47	41	39	44

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
11	23	21	13	19

6.3.4 **Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).**

6.3.4.1. **Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
55	53	41	44	35

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
01	02	17	04	06

## 2.Extended Profile Deviations

ID	Extended Questions																				
1.2	<p><b>Number of programs offered year-wise for last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>7</td> <td>7</td> <td>7</td> <td>7</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2019-20	2018-19	2017-18	2016-17	2015-16	7	7	7	7	7	2019-20	2018-19	2017-18	2016-17	2015-16					
2019-20	2018-19	2017-18	2016-17	2015-16																	
7	7	7	7	7																	
2019-20	2018-19	2017-18	2016-17	2015-16																	

10	10	10	10	10
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2.3 **Number of outgoing / final year students year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
267	314	155	267	273

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
268	311	154	264	273