



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

KARPAGAM INSTITUTE OF TECHNOLOGY

**S.F.NO 247,248 ,L AND T BYPASS ROAD, SEERAPALAYAM VILLAGE,
BODIPALAYAM POST, COIMBATORE 641105
641105**

www.karpagamtech.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

March 2023

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

The Karpagam Charity Trust was founded in the year 1989 by Dr. R.Vasantha Kumar, B.E.(Hons), D.Sc, Chairman and Managing Trustee, with the vision to serve and to lead society by imparting quality based education as its mission. Karpagam Institute of Technology started in the year 2008, it is approved by All India Council for Technical Education (AICTE), New Delhi and is affiliated to Anna University, Chennai. It is incepted with the vision of providing quality technical education and to create proficient engineers. The institution produces engineers capable of attaining supremacy in new technology and innovation, with matchless commitment and enthusiasm. The institution stands out as a premier learning hub with the mission of imparting excellence in technical education and research. The institute is built with a team of dynamic faculty members, diverse student community and the state-of-the art facilities. The pedagogy followed in the institution equips our students to be at par with the latest technological developments. It creates a friendly environment to provide a platform for intellectual development, independent thinking, personal growth and also equips students with the employability skills through practical training within the industries which are indispensable, to acquire better career growth.

Vision

To impart quality technical education emphasizing innovations and research with social and ethical values.

Mission

- Establishing state-of-the-art infrastructure, effective procedures for recruitment of competent faculty and innovative teaching practices.
- Creating a conducive environment for nurturing innovative ideas and encouraging research skills.
- Inculcating social and ethical values through co-curricular and extra-curricular activities.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Well focused Management going by clarity in their mission to achieve the Institutes vision.
- Wide campus with state-of-the-art infrastructure and resourceful atmosphere.
- Well experienced and motivated mentors valuing and implementing modern pedagogical initiatives in teaching.
- Latest technological drive and digital approach to teaching and learning process.
- Development of personality professional and organizational traits through training programs and variety of club activities.
- High placement records yearning to best industry related practices in grooming students for better employability through placement training and skill development programmes.

Institutional Weakness

- Students exchange programs
- Language barrier – of First Graduates
- Funding for Research Projects
- Better utilization of resources

Institutional Opportunity

- Development of Entrepreneurs
- Skill development through various outreach activities
- Exploring opportunities for research and patent filing
- Better Student participation in Technical programmes
- Instilling variety in knowledge base among students

Institutional Challenge

- Training of First Graduate Students in English
- Spooling unfocussed look-out of students ensued through social media practices
- Development and standardization of global competence among students
- Students sustainability and necessitating of core engineering programmes
- Need based Centre of Excellence

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institute follows the curriculum and syllabi prescribed by the Anna University being affiliated to Anna University, Chennai. The Institute prepares academic calendar as per University Academic Schedule and encourages creative methods for delivery of curriculum. The Institute espouses relevant curriculum delivery methods to achieve required outcomes for each course and the attainment of outcomes of each program by catering to the needs of the students and by keeping up the expectations of other stake holders like employers, parents and industry. The curriculum delivery methods include the scope for experiential learning through project work, field work and internship thereby students are involved actively to build their technical competency. By extending contents of the course beyond prescribed syllabus the gaps in curriculum are identified and bridged by conducting additional theory and practical sessions, Value Added Courses etc. 140 Value Added Courses are designed in consultation with leading industries and academia during the last five years. 5123 students are benefitted. With relevance to cross cutting issues the institute integrates environmental science, sustainable development and human values including professional ethics and gender equality as per university curriculum.

Teaching-learning and Evaluation

Details involving teaching- learning and evaluation are showcased in this section. Admissions are done through TNEA single window counselling system and Management Quota. Transparent compliance norms specified are fulfilled and audited to ensure equity and wide access in different representations are honoured during admission process. Ensuing to better Mentor-Mentee relationship and successful student engagement, a promising Student Teacher Ratio of 15:1 is maintained resulting to better quality of teaching and grading. The institute ensures that the quality of teachers are meticulous and they are open to learning and meaning fully incorporating new systems and ideologies specified in the modern pedagogy. The system confirms with the process of learning is all about creating a feeling of responsibility and construction of knowledge. The teachers are capable in extending interactive and participatory approaches bringing in variety of learning experiences. The teacher responsibly identifies the diversity of learners in respect to their capabilities and all other attributes which shall influence the totality of their learning. Students are recommended to utilize e-learning facilities such as NPTEL video lectures, video lectures of our faculty, MOOC and e-journals using digital library. A Formulated counselling system provides individual guidance to needy students. A transparent process involving students to self-verify results, post evaluation is practiced in conducting internal assessment examinations. Identification of Slow learners are done through internal assessments and counselled. Remedial classes are scheduled to enhance their performance. To ensure the proper teaching-learning and evaluation processes effective feedback mechanism is formulated.

Research, Innovations and Extension

A well constituted R&D cell deploys different methodologies to siphon essential unanswered requirements of the society through innovative mechanisms enabling faculty to undertake useful research subjects. This promotes research culture among faculty members. It also builds network with industries and research institutions for funding and cooperation, resulting to spooling a sum of Rs. 16.02 Lakhs under various schemes from various agencies. It also provides guidance for publication of papers/articles. 154 research papers have been published in reputed journals by our faculty members. 750 books, chapters and conference proceedings are published by our faculty members. The Institution has an ecosystem in place for Innovation and Entrepreneurship Development (EDC) and Institution's Innovation (IIC) and for Product Development. From 2018-2019 the institute has been empanelled in MHRDs 'Institution's Innovation Council (IICs). The National Service Scheme (NSS) and Youth Red Cross (YRC) in the Institute actively involve undergraduate students in voluntary social service activities for socio-economic development in the neighbourhood as well as the Nation as an extension. An emotional and moral bonding strongly connects the neighbouring villages and the nation through virtue of the passion and dedication with which the students carry out various social service initiatives. 95 percent of our students from various branches have actively participated in extension activities through various social clubs and schemes of the institute. The institution owns 37 functional MoUs providing field projects and internships to the students. The institution has participated in many researches, internships, collaborative activities during the last five years.

Infrastructure and Learning Resources

The institution has an expansive campus with an untiring policy for improving the infrastructure and facilities which would facilitate the teaching learning processes. Our Boys' hostels accommodate nearly 500 in-living students and Girl's hostel accommodates more than 300 in-living students. The Institute is equipped with Wi-Fi facilities, staff quarters, indoor and outdoor playgrounds, Individual Gymnasium for boys and girls, canteen, first aid centre, well equipped Music and cultural club, Yoga centre, Open Amphitheatre equipped with modern audio instruments are available. The college provides safe drinking water facility through installation of Water

Doctor at various places in the campus and in the hostels .The infrastructure houses 49 class rooms with proper lighting, seating facility and ventilation, exclusive Smart Classroom for each programme, ICT tools, 3 seminar halls two conference halls, Administrative and staffrooms, admission and examination cells, Automated library with more than 21479 books and journals, 21889 e-journals and e-books, and browsing centre with 30 broad band connected computers. Strong in IT infrastructure, with Wi-Fi broadcast high bandwidths the college is equipped with 560 Computers. All the facilities and labs are well maintained periodically.

Student Support and Progression

Institute provides all welfare measures such as scholarships, facilities and student safety insurance schemes to ensure a financially trouble-free environment. Most of the students of our college availed scholarship and fee reimbursement from the state during the last five years. Support for competitive examinations like GATE, GRE, TOFEL, TANCET etc., career counselling, soft skills training, and entrepreneurial skills to enhance the employable opportunity of the students is in practice. An active placement cell presided by a capable placement officer ensures that training for on-campus and off-campus interviews and infrastructure to ensure smooth placement process. KIT has separate Training and Placement Cell through which about 91.74 % of our eligible students are placed in well reputed companies. KIT has grievance redressal, Anti sexual harassment, Anti ragging cells to address issues related to students. Our alumni association provides a platform for alumnae to interact with their alma mater regularly. The Institution monitors slow learners and drop out students through effective Mentor-ward system and professional counselling. Several Students Chapters like ISTE, IE, IETE, IEEE, CSI, ASME, SAE and department associations have been constituted to develop and nurture leadership qualities among students. Active participation in co-curricular and extracurricular activities is encouraged.

Governance, Leadership and Management

Karpagam Institute of Technology reflects the optimum of its Vision, Mission, and Quality Policy. The institute practices a profound decentralized pattern of working and participative management in keeping with its policy of decentralized governance. The Institute has prepared a perspective/strategic plan to fulfil the academic, research development, extra-curricular activities, sports and cultural activities. Several welfare measures are in place for teaching and non- teaching staff. The college encourages worthwhile welfare schemes to all teaching and non-teaching staff to boost the morale of the employees and thus make them motivated to work efficiently. A well structured mechanism to evaluate the performance of teaching staff and is carried out regularly at the end of every academic year. Finance Officer takes control over the financial transactions under various heads. Well qualified finance team maintains a robust strategy in utilizing the generated funds effectively. IQAC cell has been constituted to effectuate quality metrics in to every academic activity, primarily, teaching learning process. The institution gives primary importance to student centred teaching learning process. The institution follows a well-defined system of academic components and procedures to improve the quality of teaching.

Institutional Values and Best Practices

The institution has adopted various green initiatives to maintain a green campus which helps in developing an eco-balanced environment in the campus with lush dark trees and beautiful lawns. Usage of solar panels, rainwater harvesting, sewage water treatment plant, drip water sprinklers, energy saving measures etc., are equipped and the greenery is the sign of the campus. The institution also instils environmental consciousness in the minds of students by conducting environmental awareness programmes through various clubs like ENSAV,

Rotract, NSS etc., The two best innovative practices that the institution follows to enhance the quality of students are and . Enabling better placement possibilities the students are exposed to latest trends in technical and professional education. Hence our institution is enthusiastic in helping students to take up different training programmes to complement their knowledge and skills related to their field of study and to inculcate continuous learning, even though employed full time. In addition to all above specialists and experts in the field of placements help us encourage and nurture students effectively for a successful career.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	KARPAGAM INSTITUTE OF TECHNOLOGY
Address	S.F.No 247,248 ,L and T Bypass Road, Seerapalayam Village, Bodipalayam Post, Coimbatore 641105
City	Coimbatore
State	Tamil Nadu
Pin	641105
Website	www.karpagamtech.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	P. Manimaran	0422-3502440	8220333790	-	info@karpagamtech.ac.in
IQAC / CIQA coordinator	V.j.arulkarthick	-	9080894534	-	iqac@karpagamtech.ac.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	

State	University name	Document
Tamil Nadu	Anna University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	29-08-2022	View Document
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	03-06-2022	12	

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?	Yes
If yes, name of the agency	ARIIA Ranking by AICTE and IIC by AICTE
Date of recognition	29-12-2021

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	S.F.No 247,248 ,L and T Bypass Road, Seerapalayam Village, Bodipalayam Post, Coimbatore 641105	Rural	16.7	31777.7

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/ Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Be Computer Science And Engineering	48	HSC	English	60	60
UG	BE,Be Electronics And Commu nication And Engineering	489	HSC	English	120	120
UG	BE,Be Mechanical Engineering	48	HSC	English	60	50
UG	BE,Be Electrical And Electronics Engineering	48	HSC	English	60	57
UG	BTech,Btech Information Technology	48	HSC	English	60	60
UG	BTech,Btech Artificial Intelligence And Data Sciences	48	HSC	English	60	60

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	14				16				86			
Recruited	11	3	0	14	12	4	0	16	50	36	0	86
Yet to Recruit	0				0				0			

Non-Teaching Staff						
	Male		Female		Others	Total
Sanctioned by the UGC /University State Government						0
Recruited	0		0		0	0
Yet to Recruit						0
Sanctioned by the Management/Society or Other Authorized Bodies						14
Recruited	11		3		0	14
Yet to Recruit						0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				23
Recruited	15	8	0	23
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	11	3	0	12	4	0	0	2	0	32
M.Phil.	0	0	0	0	2	0	2	12	0	16
PG	0	0	0	0	0	0	48	20	0	68
UG	0	0	0	0	0	0	0	0	0	0

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

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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	316	2	0	0	318
	Female	103	0	0	0	103
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	44	16	4	5
	Female	15	1	0	2
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	1	0	0
	Others	0	0	0	0
OBC	Male	208	143	94	194
	Female	68	43	27	46
	Others	0	0	0	0
General	Male	8	10	9	13
	Female	5	3	0	3
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		348	217	134	263

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Karpagam Institute of Technology is affiliated and follows the Anna University curriculum which integrates courses of Sciences, Humanities, Management and professional Ethics along with core
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	<p>courses. Value added courses are conducted to enable students to take up multidisciplinary courses. An Open Elective System therefore facilitates to transform itself into a holistic interdisciplinary curriculum which allows the students to take up interdisciplinary courses and thereby credits are easily transformed. All students enroll in one of the personality and character development programs and undergo training in NCC, NSS, YRC and RRC which are all credit based, completing 80 hours of training schedule and followed by a camp proceeding which gives adequate exposure to community engagement, service, and environmental education and are value based towards the attainment of multidisciplinary holistic education.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>Although the process of ABC implementation is in progress, the students are allowed to credit a maximum of two online courses, subject to a maximum of six credits. HOD of the course ensures that the student has not studied such courses and would not repeat it again as Professional core / Elective or open elective course. These courses are also chosen from SWAYAM/NPTEL platform. Academic Bank of Credits is essentially a credit-based, and highly flexible, student centric facility. Our institution has been in the process of getting approval to apply for registration with Academic Bank of Credits from statutory authorities such as Governing Council, Academic Council and university authorities.</p>
<p>3. Skill development:</p>	<p>Tamil Nadu State Skill Development Corporation and the Anna University jointly conduct various Skill Development programs through Naan Muthalvan and Nalaya Thiran Schemes for the benefit of the students. These programs are conducted in collaboration with leading brands of the Industry, where they can attain skills related to industry related professionalism. In addition to the above various value added courses are conducted by the institute ensuring that each student pursues at least two courses before their graduation. 140 in number value added courses have been conducted during the assessment period.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>Anna University has introduced courses 1. Heritage of Tamil 2. Tamils and Technology enabling the students to understand and acknowledge the</p>

	integration of Indian knowledge systems, relishing the true cultural and societal virtue of India. Bi-lingual or vernacular mode of teaching is practiced by faculty members for the benefit of slow learners.
5. Focus on Outcome based education (OBE):	Outcome Based Education frame work (OBE) was brought into practice in the year 2015. This process has been involved in all the three stages of curriculum, Teaching Learning and Assessment process. Program Out come and Program Specific Outcomes are being evaluated through batches and corrective actions are taken for continuous quality improvement.
6. Distance education/online education:	The college has been recognized as a NODAL Centre for NPTEL and IIT Spoken Tutorial Centre THROUGH ONLINE. Students are encouraged to pursue courses from NPTEL and IIT Spoken Tutorial portals. Students can earn additional credits post successful completion of these courses.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Karpagam Institute of Technology has instituted an Electoral Literacy Club (ELC) and ensures its effective functioning with the total involvement of our students and active coordinators. Through various activities, the electoral process of registration and voting is familiar among students.
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	The Electors Literacy Club organizes seminars and lecture classes to educate students and understand about their rights and encourage them to practice those rights by participating in the elections effectively. The Club educates students through Mentors for better outcomes. The club also encourages students to take part in outreach programs conducted and show through social responsibilities as this will help develop their skills and confidence. Our students and staff have actively participated in many such events. The Club has actively involved the students in various innovative activities to encourage the students to use their voting rights and spread awareness about the importance of voting among general public under privileged sections of society especially transgender, commercial sex workers,

	disabled persons, senior citizens, etc. ensuring that the programs follow guidelines of the Election commission.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	Every year, students are encouraged undertake projects in reaching out the socially deprived. Faculty members and students are encouraged to know about Data Analysis that will help to research on betterment of election process. The club ensures dissipating knowledge about Electronic Voting Machines (EVM). ELC in coordination with our College NSS team has been creating awareness among public through display of posters and by participating in campaigns as per direction of the local bodies.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.	Every year, students are encouraged undertake projects in reaching out the socially deprived. Faculty members and students are encouraged to know about Data Analysis that will help to research on betterment of election process. The club ensures dissipating knowledge about Electronic Voting Machines (EVM). ELC in coordination with our College NSS team has been creating awareness among public through display of posters and by participating in campaigns as per direction of the local bodies.
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	The club ensures that Voter identity card is arranged for all students and staff members. The club guides the students and faculty members about protocols needed for application of voter ID card and its follow-ups. It periodically participates and assigns events to create awareness on the importance of voting, through various programs like rallies, surveys and by conducting seminars.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1152	907	860	1017	1187

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

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

Response: 145

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
103	94	93	88	117

3 Institution

3.1

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

2021-22	2020-21	2019-20	2018-19	2017-18
386.66604	257.03984	297.83368	404.38026	567.07437

File Description	Document
Upload Supporting Document	View Document

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

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

Response:

Karpagam Institute of Technology is affiliated to Anna University and follows curriculum prescribed by the University. The Institute prepares appropriate academic calendar as per the affiliating University Academic Schedule before commencement of each semester. A committee is constituted by the principal every semester to design the academic calendar of the institution. It incorporates important timelines like commencement of classes, last working day, Holidays, Schedule of Continuous Internal Assessments, Commencement of End Semester Examinations. Academic Calendar also includes Annual Day, Sports Day, Offer Day, Symposium, Conference and events conducted by Professional Chapters and Club Activities. During unavoidable circumstances any changes in the academic schedule if intimated by the University to the college is implemented and is adhered by the Institution.

Our Institution treads through student centered Outcome Based Education where the performance is measured through Course Outcomes (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) to attain the Vision of the Institution. The Institution adheres to Choose Based Credit System (CBCS) as prescribed by University Curriculum recommendations. The Institute conducts Induction Programmes and bridge courses for the first year and lateral entry students respectively before commencement of the academic year.

Well planned time-table is prepared by Time-Table Committee accommodating the provisions for mentoring, self-learning and career guidance. Course Committee Meeting is convened by the course coordinator for common courses to prepare Course Plan, Continuous Internal Assessments (CIA), Assignments and Evaluation Scheme. An illustrative micro level course plan is prepared with modern teaching pedagogy like Collaborative Learning, Inquiry based Learning, Project based Learning, Flipped/Blended Learning, Peer Learning, Competency based Learning, Experiential Learning etc., by concentrating on learning outcome for individual sessions. One faculty member is allocated for every 20 students to conduct tutorial classes efficiently. Laboratory courses are conducted as per the course plan and performances of the students are continually evaluated. Students are motivated to take up Industrial and In-house projects in their area of interest and their performance is periodically reviewed by Review Committee.

Continuous Internal Assessments are conducted as per the affiliating University guidelines. Slow learners are identified based on the performance in University Examinations and CIA, Remedial/Coaching classes are conducted. Students' feedback on Teaching Learning Process is collected in the Class Committee meetings and online mode regularly. Class Committee meetings are conducted periodically as per regulating guidelines of affiliating university. The feedback is analyzed and remedial actions are taken for effective curriculum delivery.

Apart from the regular curriculum the departments organize Value added courses, Guest Lectures, Seminars, Webinars, Industrial Visits and In-Plant Training to bridge the gap between academia and industrial requirements. COs, POs and PSOs are evaluated using direct and indirect assessment methods for continuous improvement in curriculum delivery. Internal Quality Assurance Cell (IQAC) strategizes the curriculum delivery process and ensures effective implementation and documentation. Every data related to curriculum delivery like students attendance, CIA marks, End Semester results, course materials etc., are maintained in ERP for easy harnessing of information.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1

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

Response:

File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Other Upload Files

1	View Document
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1.2.2

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
1136	807	715	850	1003

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1

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

Response:

Professional Ethics, Human Values, Environmental Science and Sustainable development are integrated with the university curriculum. In addition to University Curriculum, our Institute provides Co-curricular and Extra-Curricular activities to elate the gender, moral and cultural behaviour amongst students.

Courses on Professional Ethics and Human Values are offered to all the students which inculcate Human Values like Self-Confidence, Character, Empathy, Code of Conduct, Leadership and understanding Global Issues etc., within the students. The faculty members are encouraged to participate in the Programs on Universal Human Values conducted by AICTE. The faculty members in turn promote the Human Values and Ethics among the students through various activities conducted by Universal Human Value Club. Every year the Institute celebrates Days of National and International Importance like Independence Day, Republic Day, Engineers Day, Science Day, Teachers Day etc., in instilling the moral of national, Social and Educational values. Yoga and Meditation classes are conducted to bring out mental strength and allow the student to stay calm and composed during chaos.

Institute has an active Woman Empowerment Cell through which various activities like Gender Equality, Awareness on Sexual harassment, Self-Awareness, Self Defense, Personal Hygiene, Physical and Mental Strength, Social Security and Woman Entrepreneurship are conducted for enriching the life style of woman faculty and students. The Institute ensures active participation of woman faculty and students in all the statutory and non statutory committees for promoting Gender Equality. An elaborate celebration of the Women's Day is a prominent activity of the Institution which encompasses several events and competitions to bring out talents in women exhibiting their Confidence, Compassion, Leadership, Togetherness, Mental Strength, Creativity, Skills in Multi Tasking and Ability in Problem Solving. Events and Competition embracing many tasks ensures to realize their true potential.

Environmental Science and Engineering is a mandatory course for all students to create awareness towards Environmental Eco System, Biodiversity, Pollution, Natural Resources, Social Issues and Human Population. Various other Program Specific courses like Renewable Energy, Smart Grid, Waste Water Management, e-Waste Management and Industrial Pollution Control are also offered in the Curriculum. Learning Environmental Science and Engineering invokes the student to understand the level of the social contribution in their day-to-day life.

Institute also organizes various activities through National Social Service (NSS), Unnat Bharat Abhiyan (UBA), Swachh Bharat Abhiyan and Eco Club to comprehend to the importance of environment and contribute to the sustainable growth of the nation. Events like Tree Plantation, Awareness programs on Plastic free environment, Bio cultivation, World Environment Day, Earth Day, Organic Farming, Waste Management, Energy Conservation etc., are organized giving due importance to basic societal needs.

It is imperative that the offered curriculum concentrates both on Social and internal behaviour of the students for producing students with humane which is felt very necessary in today's world.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2

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

Response:

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

Response: 1147

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response:

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
434	348	217	134	263

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
435	429	420	420	420

File Description

Document

Institutional data in the prescribed format

[View Document](#)

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

[View Document](#)

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

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

2.1.2

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
224	201	135	81	184

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

2021-22	2020-21	2019-20	2018-19	2017-18
225	202	213	242	248

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.2 Student Teacher Ratio

2.2.1

**Student – Full time Teacher Ratio
(Data for the latest completed academic year)**

Response:

2.3 Teaching- Learning Process

2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

The Institute organizes various Faculty Orientation Programs on Pedagogical initiatives to improve teaching learning process through innovative methods. As an active institutional practice topics of relevance from modern Pedagogy are included in the course plan by the faculty.

Experiential Learning

Experiential method of learning enables students to understand critical concepts far better through Learning by doing.

1. Project based Learning

Our faculty inspires Students to take up projects related to societal interests bringing technical solutions to fair practices of the Modern World. We motivate students to participate in National level project contests and Hackathons like Smart India Hackathon (SIH), Microsoft Azure contest, Tamilnadu State Innovator contest, Tamilnadu State Council for Science and Technology contest.

Few Highlights: 1 team won SIH Grand Finals on 2020, 7 teams were shortlisted for SIH finals, Our Student project was selected among top 10 projects in Microsoft Azure the code Titan Startup contest, 1 team was shortlisted and presented their project in Tamilnadu State Council for Science and Technology Student Project Contest.

2. Internships / In-plant Training

Our Students are motivated to undergo Internship during Summer/Winter Vacation to have clear insight about the practical applications of technology and obtain fair knowledge with the real-world problems. 775 students have undergone Internship during the academic year 2021-2022.

3. Practical Sessions

Our full-fledged laboratories are utilized for exhaustive learning of curriculum based practical sessions engaging the students to practice Experiential Learning. A total of 101 laboratory courses have been conducted during the academic year 2021 - 2022.

4. Field Works

Our Students are exposed to ideological ethical learning process wherein they get to know about the impact of the environmental behaviour and sustainability practices. Students are required to visit industries regularly at least once in a semester.

Participative Learning

Participative Learning is promoted in regular classes by variety of Teaching Methods and few are listed

below:

1. Peer Learning

To enhance Students' participation and improve their Cognitive Level, Peer Learning is carried out in Lab Classes, Projects, discussion of Analytical Topics, Remedial Classes, etc., Based on the exam performance bright learners were trained and motivated to teach slow learners through seminars, peer group learning, etc., A total of 98 peer learning activities were carried out during the academic year 2021 - 2022.

2. Flipped Classroom

Flipped Classrooms, an instructional strategy to increase student engagement through early preparation at home and solving open ended problems during class hours. Most of the Analytical Courses are conducted through Flipped Classrooms. A total of 190 flipped classroom activities were carried out during the academic year 2021 - 2022.

3. CAMP Quiz

To evaluate the intellect of students at various dimensions like Conceptual, Analytical, Memory and Practice-based, formative assessment is carried out at the end of each unit for specific courses. A total of 14 CAMP based Quizzes and 147 Quizzes were conducted.

Problem Solving Methodologies

We use different methodologies like Gamified learning, Project Based Learning, Tutorial Classes, Assignments, Case Studies etc., to bring out Problem Solving ability among students.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
103	94	93	88	117

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.4.2

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
33	27	22	11	7

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.5 Evaluation Process and Reforms

2.5.1

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

Response:

Anna University provides the Academic schedule which includes timelines for internal assessment and uploading of internal marks in the University web portal.

Based on the academic schedule provided by Anna University, the Institute prepares the academic calendar which includes dates for internal examinations. University guidelines are followed for frequency and conduct of the Internal Assessment tests. The academic calendar is circulated for the information of the faculty and students during the commencement of each semester.

In adherence to the Academic Calendar the examination cell provides guidelines for preparation of question papers and disseminates detailed Timetable in time for smooth conduct of examinations. Nominated Coordinators from each Department ensure the conduct of Internal Examinations.

Structured question papers are framed by the Course Coordinators in accordance with the Knowledge Levels (Remember, Understanding, Apply, Analyze, Evaluate, and Create) contemporary to the Course Outcomes.

Two question papers and its evaluation schemes are prepared. These question papers are scrutinized by the subject experts in the department and submitted to the examination cell through Department Coordinator. The examination cell selects question papers at random.

The examination is conducted as per scheduled timetable and the answer sheets are evaluated meticulously by the respective course faculty within three days of the conduct of examination. Evaluated answer sheets are acknowledged by the students after cross verification.

The respective department HoDs audit the answer scripts and analyze the result. The class advisor prepares the result analysis and displays the same in department notice board duly approved by the HoD and Head of the Institution.

The course faculty enters Internal Marks in institute's ERP software. As per the schedule given by Anna University, Internal Assessment marks are uploaded in the University Web portal facilitating the students to view their marks.

Grievance related to examinations if any are handled in an efficient and time bound manner at the course instructor level, Mentor Mentee meetings and Class Committee meetings. Grievance related to evaluation and uploading marks in the web portal are handled effectively, where in scope for re-evaluation and necessary corrections thereof are registered and viable. Students are informed well in time at the beginning of the semester by respective HoDs about the transparent policies in the examination process. Students are allowed to register their grievance in the grievance register placed in the examination cell or through our web portal examgrievance.karpagamtech.ac.in. Actions on grievance related to evaluation and syllabus are addressed within two working days.

Candidate can apply for photo-copy of semester examination answer scripts for verification of marks .

Course instructor evaluates the answer scripts and recommends possibilities of re-evaluation for deviations if any. Records of all communications with University are done through Examination cell. Candidates can also apply for challenge evaluation if re-evaluation is unsatisfactory.

Genuine grievance related to question paper, deviation in syllabus and discrepancy in mark-sheets received from the students through the Examination cell are conveyed to the University by Head of the Institution. Communication on student's grievance with the University are filed and preserved in the Examination cell.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1

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

Response:

Systematic procedures are followed to frame Vision, Mission, PEOs, POs, COs and displayed on the website.

Attainment of Course Outcomes

Assessment process used to evaluate the attainment of Course Outcomes for theory courses, laboratory courses and project works are defined separately. The Course Outcomes are evaluated through Direct Assessment Method. The target level and rubrics for the attainment of Course Outcomes are finalized in the Department Advisory Committee meeting. The CO assessment for each course is carried out by the respective faculty member and reviewed by the Head of the Department at the end of the semester.

Internal Assessment

The attainment levels and target levels for theory / laboratory & projects are set as follows:

Attainment Level = 1, if 60 - 69 % of students secured 60 / 80 % of Marks and above.

Attainment Level = 2, if 70 - 79 % of students secured 60 / 80 % of Marks and above.

Attainment Level = 3, if \geq 80 % of students secured 60 / 80 % of Marks and above.

External Assessment

The attainment levels and target levels for theory / laboratory & projects are set as follows:

Attainment Level = 1, if 60 - 69 % of students secured B / A Grade and above.

Attainment Level = 2, if 70 - 79 % of students secured B / A Grade and above.

Attainment Level = 3, if 80 - 89 % of students secured B / A Grade and above.

The overall CO attainment level is derived by combining the attainment of Internal and External Assessments in equal proportion.

Attainment of POs/PSOs

The following are the steps involved in the calculation of POs and PSOs attainment levels

- The targets for POs and PSOs are fixed during DAC meeting
- The assessment tools to calculate PO and PSO attainment are as follows:

1. Direct assessment
2. Indirect assessment

1. Direct Assessment of POs and PSOs:

Attainment of POs and PSOs are obtained through the calculation of COs of all courses

1. Calculation of Expected POs and PSOs Attainment Level

- A correlation matrix of COs of each course with POs and PSOs are mapped with appropriate levels 3- High, 2- Medium and 1- Low.
- The direct attainment of each POs and PSOs are calculated using the correlation matrix of COs to

POs and PSOs.

- After mapping POs and PSOs with COs; the average of POs and PSOs are derived.

1. Calculation of Actual POs and PSOs Attainment Level

- The PO and PSO attainment levels are calculated as follows.

PO and PSO attainment level	=	Level of PO mapped with CO × Attainment level of CO/ 3
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1. Indirect Assessment of POs and PSOs:

- An Exit Survey is conducted for all the programmes at the end of VIII semester.
- In addition to this, Employer Survey is also considered for the attainment calculation of POs and PSOs.

Overall attainment	=	0.8 (Attainment through direct assessment) + 0.2 (Attainment through indirect assessment)
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File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

Course Outcomes are attained through Internal Assessment Test and University Examinations.

The flow chart representing the procedure to calculate the attainment of POs is depicted in Figure. The following are the steps involved in the calculation of POs attainment levels

- The DAC meeting is convened during which the target for POs are fixed
- The assessment tools to calculate PO attainment levels are classified as follows:

1. Direct assessment
2. Indirect assessment

1. Direct Assessment of POs:

Attainment of POs are obtained through the calculation of COs of all courses

1. Calculation of Expected POs Attainment Level

- A correlation matrix of COs of each course with POs is created with appropriate levels 3- High, 2- Medium and 1- Low.
- The direct attainment of each POs are calculated using the correlation matrix of COs to POs.
- After mapping the POs with COs; the average of all POs are calculated.

1. Calculation of Actual POs Attainment Level

- The PO attainment levels are calculated as follows.

Table : POs Attainment calculation through direct assessment

POm	=	Level of PO mapped with CO × Attainment level of CO/ 3
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1. Indirect Assessment of POs:

- The Exit Survey is obtained for all the courses at the end of the VIII semester.
- In addition to this, Employer Survey is also considered for the attainment calculation of POs.

Table : POs Attainment calculation through indirect assessment

Overall attainment	=	0.8 (Attainment through direct assessment) + 0.2 (Attainment through indirect assessment)
--------------------	---	----------------------------------------------------------------------------------------------

- The frequency of data collection is every year. Similar procedure is followed for all the courses from first year to final year.
- Once the CO and PO attainment are calculated, it is verified by the HoD.
- If the target set for POs attainment is achieved consecutively for three batches, then the set target is revised to a higher value and the process is repeated for the next academic year. If the target set value for PO attainment is not achieved, corrective measures are taken to fill the gap and the same process is repeated for the next academic year.

Sample CO Calculation:

Figure : Flow Diagram for the attainment of POs

Sample PO Calculation:

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.3

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
117	227	274	244	193

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

2021-22	2020-21	2019-20	2018-19	2017-18
120	231	280	338	281

File Description	Document
Institutional data in the prescribed format	View Document
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Upload database of all students on roll as per data template	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
2.79	4.65	2.6	3.12	2.85

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1

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

Response:

Moving towards a highly equipped technological era the Institute aims at creating an expansive ecosystem for recognising and rewarding innovation. Our institute is an active member of the Institution Innovation Council established under the guidance of Ministry of Education Innovation Council formerly known as MHRD since its inception. The Institute has gained recognition having been awarded with the highest Star Rating from the year 2019-20 onwards. The institute has been closely monitoring, recognising, recommending and conducting stipulated activities as framed by the Institution Innovation Council like IIC calendar activities, MIC driven activities, Celebration activities, Self driven activities and National Innovation Contest. By encouraging the students faculty had been the driving force behind these exceptional performances. Our college has also emerged as a Band Promising Institution in the ATAL ranking of Institution Innovation and achievements assessed by MoE's ARIIA platform.

Our enthusiastic Research and Development Cell very actively tracks, guides and coordinates students' activities encouraging them to perform research activities which can fulfil the societal needs. The R & D cell has coordinators in all the Departments who pool down the innovative achievements of students for Research and Development. The cell designs innovative programmes to induce and inculcate necessary innovative activities by celebrating the Science Day, Energy Conservation Day, National Education Day and Indian start-ups.

The Institute inducted Innovation and Incubation Club technically provokes the innovative thought process among students understanding the highest technological know-how available in the industry. The club coordinates its innovative programmes with the Entrepreneurship Development Cell bringing in prompts and concepts of worthwhile entrepreneurship.

Our Institute extends honorarium to profound and extra-ordinary projects recognising the value of innovation and guides them with the help of our learned faculty using the best infrastructure available within the institution. These seed funding arrangement encourage the students for the timely completion of innovative projects.

The institute organizes periodic workshops, seminars, interactions with entrepreneurs, investors, professionals and create a mentor pool for faculty and student innovators. Our institution deliberately shares data of innovation and projects in the web portal enabling to kindle the interest of budding researchers.

Our Institute has organized and participated in Smart India Hackathons, Idea Competition, mini-challenges etc., and had outperformed the event with flying colors with the involvement of the students.

Our Institute has well equipped laboratories to enable research learning process of student and faculties round the clock. Our well experienced faculties help the students in guiding them throughout the process of their research. Our library provides oceans of opportunities to the students and faculty to nurture during their academic term leading to a twilight of glittering career opportunities. The Institute mandates the process of encouraging efficacy and intellect to hold the guiding light paving way to growing industries by means of providing technical consultancy.

Hand in hand with the industrial partners the Institute proclaims of creating a wholesome in societal accomplishments engineering its Center of Excellence.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
25	24	30	17	10

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
35	48	26	9	12

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	View Document
Link to re-directing to journal source-cite website in case of digital journals	View Document
Links to the papers published in journals listed in UGC CARE list or	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.3.2

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
165	141	136	157	80

File Description	Document
List of chapter/book along with the links redirecting to the source website	View Document
Institutional data in the prescribed format	View Document
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.4 Extension Activities

3.4.1

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

Response:

Through extension and social outreach programmes benefitting neighbourhood community, we sensitize the students to develop social values and moral ethos, thereby creating a holistic development and inference, spoken over for a period of time. The institute has various clubs like NSS, YRC, RRC, UBA, Eco Club, Women Empowerment Cell, EnSav Club and Yoga Club to conduct various events for the benefit of neighbourhood community.

National Service Scheme (NSS)

NSS is a Student Centered Service Scheme under the direction of Government of India, Ministry of Youth Affairs and Sports, aiming at voluntarily addressing social issues for the benefit of the society. Under NSS scheme, Unnat Bharat Abhiyans Activities, Swachh Bharat Campaigns, Plastic Awareness Campaign, Dengue Awareness Programmes, COVID-19 Awareness Programmes, Village Field Survey etc. are conducted by the institute to benefit neighbourhood community.

Youth Red Cross (YRC) & Red Ribbon Club (RRC)

YRC is one of the oldest and largest voluntary organizations with the highest membership enrolment. Our institute based YRC carries out large scale voluntary operations like conducting Medical Camp, Road Safety Awareness, Aadhar Camp, Blood Donation Camps, Grama Sabha, and Hygiene campaigns for the wellbeing of neighbourhood community.

Institute based Red Ribbon Club aims at spreading awareness on HIV/AIDS among the student community who converse the awareness of HIV/AIDS and responsible blood transfusions in the neighbourhood community. This inculcates the spirit of helping tendency among students. Our Institute organized Campus Cleaning programme in State Run Bodipalayam Government School

Eco Club

Eco Club aims on creating awareness about pollution free environment, focusing on India's Green Revolution. This club dissipates the information on issues like Global Warming, Impact on Usage of Plastics and mass Deforestation. The club's initiative on Tree Plantations, Environment Awareness Camp and Green Covai Mission in the neighbourhood community its noteworthy.

EnSav Club

EnSav club envisages the information of energy conservation and utility in the sources of alternative energy. It promotes sustainable goals on conservation of energy by giving awareness to the neighbourhood community.

Women Empowerment Cell (WEC)

The Institute's Women Empowerment Cell reaches out the neighbourhood community through activities like spreading awareness on Gender Equality, Awareness on Sexual Harassment, Intellectual Empowerment, Social Security, Women Entrepreneurship and works on capitalizing with potential programmes which makes them realize their true potential.

Yoga Club

A healthy mind in a healthy body exhibiting spiritual attainment through meditation and yoga spreading across messages of true well being is the aim of the club. Our institute conducts yoga classes like Kayakalpa, Hatha yoga and Suriya Kriya spreading the message of "Yoga Kshemam Vahamyagam" in schools and neighbourhood villages.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

The Institute has been actively involving itself in various social outreach activities from its induction. Various awareness programmes are conducted through the NSS, YRC, RRC, UBA, Eco Club, Women Empowerment Cell, EnSav Club and Yoga Club at different periodicities involving students in large numbers. The Institution is continually reported in the news papers for its untiring efforts to reach out, creating awareness in various themes like Women Empowerment and Education, road safety, environmental awareness, tree plantation, blood donation, use of plastic, AIDS awareness, Aadhaar camps, Self-employment and library projects.

The Institute’s swachh bhara activities and its awareness programmes have created enduring results which has been an eye opener to all. Central government schemes like Unnat Bharat Abhiyan have also been given due importance and have benefitted neighbourhood villages. The activities of the Red Ribbon Club in conducting world blood donors awareness is worth mentioning. Green Covai mission aided to plantation of enormous trees thereby taking part in the environmental vision of the country. Repeated conduct of traffic awareness programmes in Madukkarai and Bodipalayam with the help of the traffic department have ensured safe mobility of vehicular traffic and mandatory wearing of helmets. Our Institute’s awareness programmes “Rally for Rivers” conducted in Echanari was over whelming and welcomed by the public.

Our Institute extended its services during the recent floods in Kerala by distributing essential material during the exigency. Understating the importance of activities like distribution of food and essential to the local public the institute reached out to the houses during pandemic lockdowns. The Institute is stated as a reference point and has set higher values and standards of social service for which the Management, Faculty and Students painstaking efforts marks and indelible note.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
09	05	17	10	08

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.5 Collaboration

3.5.1

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

Response:

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

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

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

Response:

Karpagam Institute of Technology widely spreads over an area of 16.69 acres with an overall built-up area of 31,777 Sq.m. The campus has ingenious infrastructure which includes ICT enabled Classrooms, Smart Class Rooms, well equipped Laboratories, Drawing Hall, Library, Computer Centres, Incubation Cell, Centre of Excellence, Seminar Halls, Board Rooms, Auditorium and Open Air Theatre. Diligently designed infrastructure of the Institute provides an exquisite ambience for imparting quality teaching-learning experience and making students industry-ready.

Institute has adequate Class Rooms, Drawing and Tutorial Hall which are spacious, well ventilated, illuminated and equipped with ICT facilities with modern Smart Class Rooms adorning different departments.

All departments are devised with well equipped laboratories providing hands-on experience to the students of different disciplines for better experiential learning and research exposure. Few laboratories are supported by the Industry and are utilized for advanced learning beyond curriculum.

Library is equipped with OPAC (Online Public Access Catalogue) spreading over an area of 936 Sq.ft. with rich collection of books 4587 titles, 22439 volumes, 11515 journals, 450 e-books and e-journals like Springer 465 titles, J-Gate 20505 titles, Del-Net 480 titles and an institutional membership with DELNET-1666. Our library stands as reference point dissipating information on technical and non technical subjects.

Auditorium, and seminar halls comfortably accommodate large gatherings for events relating to education and societal culminations. Each department has individual Board Rooms to conduct department level meetings and briefing.

Institute has sufficient Computer peripherals operating with windows and Linux platforms. To enhance the e-learning facility all the computers are connected to the internet with high speed bandwidth. Our Campus is supported with 24x7 well defined and freely accessible Wi-Fi connectivity. Our Local Area Network (LAN) protected with safe firewalls provides access to the internet and e-mail services.

Well designed auditorium and amphitheatre accommodates boisterous cultural activities of the students and can be widely viewed by a big mass of audience. Sophisticated PA systems are installed for effective

conduct of cultural activities. The college conducts events like Asthra, Annual day, Varnam etc., to relish the cultural heritage of India.

Institute promotes sports activities which include 400 m Track, Long jump, Triple Jump, Shot-Put, Javelin Throw etc. The campus has well maintained tracks and play grounds and elaborate sports equipments for conduct of the sports activities.

Indoor games like Table Tennis, Chess, Carrom and Badminton.

Outdoor games like Cricket, Football, Handball, Volleyball, Hockey, and Ball Badminton are made available

Students are motivated to showcase and compete through inter collegiate sports activities. Group sports events and competitions are conducted every year in association with the Sports and Fitness club of the Institution.

Gymnasium has the following facilities like Weight Lifting, Normal bench press rod, Zigzag bench press rod, Dumbbell Sets, Abdomen King, Hydraulic bench press, Pressure and Squat bars, Parallel bars etc. Timing: 5.00am - 7.00am and 5.30pm - 8.30pm.

Professional Yoga trainers provide expertise to master yoga practices periodically. Yoga classes are conducted in designated area which has a serene and calm atmosphere.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
123.67982	83.64982	208.87285	82.57714	18.00554

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

4.2 Library as a Learning Resource

4.2.1

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

Response:

Our fully automated library spans over an area of 936 Sq.ft. Versatile access to library resources facilitates provision through customized terminals to an Online Public Access Catalogue (OPAC). Resources accounting to 4587 titles, 22439 volumes, 21940 journals and e-books adding to DELNET-1666 Institution membership provide unlimited access to library resources.

Year-wise amount spent on purchase of books and journals has considerably been on the rise cumulating to facilitate and better add value to the library. 2017-18 amounts to Rs.222020, 2018-19 amounting to Rs.993603, 2019-20 amounting to Rs.902875, 2020- 21 amounting to Rs.224354 and finally in the year 2021-22 the purchases amounted to Rs.770159.

The Institute's library is integrated with KIT Library Management System providing seamless, centralized information to its users. User information is registered in the library software resources providing library utility data. The system has the facility to generate number of reports with the provision of Call numbers, Publisher details, Title and ISBN numbers with Barcode facility. Detailed reports on availability of books, books issued, books to be returned can be archived.

The library automation helps in execution and monitoring of all transactions of the library. Searching of library details and detailing of different other features are based on effective database feeding and management. The users are provided with the membership identity and a fail-proof password for round the clock accessibility. The Integrated KIT Library Management System uses variety of modules for Classification, Circulation, Administration, Registration, Filtration and Generation of reports.

Our Library is an active user of the National Digital Library (NDL) facilitating the students and faculty for their extended learning and research practices. Our library's e-resources like journals and books are up-to-date.

Our Institute's independent Digital repository bears a ready to use toll, 11765 e-journals and e-books (Springer 495 titles, J-Gate 10000 titles, Delnet 820 titles). An overall e-resources and memberships in NDL, NPTEL, Shodhganga and e-resources like Shodhsindu provide different sources of required information to our students and faculty members.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

Our Institute has a fully enabled Wi-Fi facility, controlled by stringent policy and procedures our Institute frequently updates its IT facilities including Wi-Fi. Users are expected to register their particulars to get regulated access. The system ensures installation of anti-virus software without which access to the network is denied. Our standards of purchase proposals hardware and software selection are based above the overall standards as per statutory recommendations. Maintenance procedures and different policies like password change, safety, firewall and networking remains as a benchmark in our Institution. Periodical backup of all the systems with an interim change over facility enables data protection during backup.

Our well equipped laboratories and other network systems accounting to 560 computer peripherals are modernized periodically and over-scale the prevailing prerequisites of the University curriculum and Industry linked programs. Our well updated Dell Power Edge-720 and HP Proliant ML-350 servers are protected with a Palo Alto Firewall. A strong uninterrupted power supply protects our high end computer peripherals from voltage fluctuation with a 20 kVA UPS partitioned into 7 units. Our licensed K7 anti-virus security software prevents the server and our healthy clientele from malicious threats. Microsoft campus agreement gains access to education cloud for Microsoft application which is renewed every year. Our online and appliance based services such as Watch guard XTM-515 security systems is periodically renewed to provide the best online based services. WI-FI devices are also installed in the hostel area providing uninterrupted internet connectivity.

Our Institute is enumerated with 70 systems in each laboratory from Laboratory 1 to Laboratory 6 posted with i3 to i7 processors. The Mechanical department computer systems are updated with various softwares like AutoCAD, Solidworks, ANSYS, Edgecam. The Institute is installed with 300 Mbps

Ethernet LAN devised with manual and automatic controls. A high end rack server systems is used for web applications, video streaming, academic activities and other activities. Campus internet traffic is monitored through the high performance firewall for any possible spam, VIRUS and intrusion detection.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2

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

Response:

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

Response: 580

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
160.12413	106.40659	71.90327	80.17500	96.05830

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

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
747	656	626	748	901

File Description

Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.1.2

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

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

Response:

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	View Document
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.1.3

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
1152	907	860	1017	1187

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4

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

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

Response:

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	View Document
Proof related to Mechanisms for submission of online/offline students' grievances	View Document
Proof for Implementation of guidelines of statutory/regulatory bodies	View Document
Details of statutory/regulatory Committees (to be notified in institutional website also)	View Document
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2 Student Progression

5.2.1

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
107	211	250	232	178

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

2021-22	2020-21	2019-20	2018-19	2017-18
117	227	274	244	193

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	View Document
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2.2

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
1	2	1	3	0

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.3 Student Participation and Activities

5.3.1

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
7	3	14	7	9

File Description

Document

Upload supporting document

[View Document](#)

list and links to e-copies of award letters and certificates

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.3.2

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
34	21	36	37	33

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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:

A registered Alumni Association (Karpagam Institute of Technology Alumni Association) functions in the institution with grandeur and meets periodically actively contributing to the development of the institution. The renowned alumni helps the institution in delivering guest lectures, motivation talks, placement advices, career guidance and information on current industrial requirements. Alumni members contributed Rs.16,72,300 till december 2022.

Members of the alumni association visit the institute at regular intervals providing valuable inputs to the students of different disciplines. Entrepreneurs of the alumni association extend their hands to sign-in Memorandum of Understanding, facilitating departments at different levels. “Rewind” a special programme focusing on meeting alumni on a particular day of the year and sharing their worthwhile experiences facilitate the institution in understanding the prerequisites of the industry.

Association members provide meticulous input on industrial practices which aid the departments in offering Value Added Courses. Members of the alumni association actively participate in the Department Advisory Committee and Internal Quality Assurance Cell offering timely inputs to better institutional practices.

A portal is developed and maintained by Alumni members. They register their details in the association portal and also extend financial support for needy students.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

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

Response:

The Institute profoundly possess an effective Vision and well planned Mission which acts as driving force.

Vision

To impart quality technical education emphasizing innovations and research with social and ethical values.

Mission

- Establishing state-of-the-art infrastructure, effective procedures for recruitment of competent faculty and innovative teaching practices.
- Creating a conducive environment for nurturing innovative ideas and encouraging research skills.
- Inculcating social and ethical values through co-curricular and extra-curricular activities.

Karpagam Charity Trust is a philanthropic organization with high moral values which has established various Educational Institutions in which Karpagam Institute of Technology forms a part. The governance and leadership is in accordance with vision and mission of the institution with a well constituted council and leadership. The Governing Council consist of various experts nominated by Anna University and the State Government.

The Institute's administration scrupulously functions with the leadership of the Principal, Vice Principal, Head of the Departments, Co-ordinators of different committees, Faculty and non-teaching staff in line with the moral and societal values ensuring impart of quality technical education. The heads and the regulating committee continually affirm the alignment of the vision and mission of the Institutional practices.

A well defined organizational structure with a definite stride of the leadership ensures better decision making with well planned committees and positions. Precised, well debated policies and procedures

effortlessly govern the Institution. Strategic plans are adhered relentlessly for a periodicity of five years consecutively. Achievable targets and bench marks are picked up for continuous development of the organizational behaviour. Better dissemination of procedures to be deployed at various functional levels are ensured in a timely manner.

Relinquishment of academic and administrative set up results in better professional and educational growth and successful functioning of the organization transpires with active participation and accountability. A bottom up approach carries importance in the hierarchical functioning of the organization.

Activities of the Institute like Academic, Administrative, Affiliation, Accreditation, Research & Development, Higher Education, Training and Placement, Student Affairs and Alumni are successfully decentralized by nominating co-ordinators and in-charges for its effective functioning. Responsibilities are distributed and periodically assessed for assured results through internal quality audits.

Various events and club activities are organized by faculty members who are nominated by the departments, following regulated practices. Student level participation is encouraged wherever necessary.

Participation in the Institutional Governance

Stake holders actively participate with the encouragement of the Institute and are involved in the process of decision making and implementation of strategies in effective manner.

The faculty members are involved and participate in the functioning of Statutory and Non statutory bodies such as Governing Council, Finance Committee, Disciplinary Committee, Anti Ragging Committee and other Institutional level committees.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

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

Response:

The institution has an effective and efficient administrative setup. Well drafted hierarchical practices are followed and reporting systems work bottom up. The governing council administers the overall functioning of the institute. Other Statutory and non statutory bodies function efficiently with the guidelines provided by the Governing Council. Scope of empowerment and defined regulatory norms bound the duties of different designated bodies. Periodical evaluation is done by debating and discussing on propagated administrative systems and necessary addition and correction are done.

Statutory bodies**1. Governing Council**

The Governing Council is constituted with the guidelines of AICTE consists of experts nominated by Anna University, State Government and Karpagam Charity Trust.

1. Planning and monitoring board

Planning and monitoring board is lead by the Principal and will consist of an academic expert, industrial expert and an architect. The board is responsible for drafting of strategic plan and shall plan for academic policies and infrastructure requirements for the approval of Governing Council.

Non Statutory bodies

It is imperative to emphasize the functioning of the institution are well coordinated and supported by Non Statutory bodies like Internal Quality Assurance Cell, Disciplinary Committee, Academic Committees, Grievance Committee, Anti ragging Committee, Clubs and societies . Periodical internal audits and procedures guide in updating the functioning of these bodies thereby effortlessly administering the institutional activities.

Recruitment Procedure

Initiation of recruitment process is done as per AICTE guidelines. The Human Resources initiates the process after due consultation with the Principal. The Institute will ensure that faculty members and staff recruited are as per University norms. The selection committee constituted by the Principal shall interview and review the position and recommends for appointment with approval of the Management. The candidate selected shall submit an acceptance over the appointment order issued.

Service Rules

The institute follows methodical service rules approved by the governing council which includes terms and conditions of employment, leave rules, pay and allowances, Career advancement schemes, roles and responsibilities and ethical standards.

Strategic Plan

A comprehensive strategic plan ecumenical in nature drafted for a period of every five years keeping in mind the vision of the institute is followed meticulously. Achievement of academic excellence through better governance, innovation and development of infrastructure are underlined in the strategic plan. Envisioning on the excellence of the institution, respecting social values and ethical standards, the plan outlines the course of developmental pattern required to be followed periodically.

Practically achievable targets are discussed with the stakeholders and SWOC analysis are carefully experimented and developed in the framing of the strategic plan. Internal assessments and audits are conducted by the stakeholders to ensure accuracy in the debated targets. Addition and modifications are taken note of and resolved in the next strategic plan.

File Description	Document
Upload Additional information	View Document
Institutional perspective Plan and deployment documents on the website	View Document
Provide Link for Additional information	View Document

6.2.2

Institution implements e-governance in its operations

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

Response:

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document

6.3 Faculty Empowerment Strategies

6.3.1

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

Response:

The institute believes in the development of the organization envisaging through betterment and effective welfare measures of the faculty and staff. The institute extends functional and regulatory schemes for Leave, On-Duty, Gratuity besides supporting the staff for higher education, R&D, Sponsored projects, Research & Publications through incentive schemes. Karpagam Institute of Technology facilitates staffs for attending external workshops and conferences. Various other welfare measures like sharing revenue on industrial projects and consultancy, recreational activities through staff welfare club are actively functional in the institution. These welfare activities are extended to all the employees through Staff Welfare Club for motivating and promoting the efficiency in them.

In addition to the above the below mentioned welfare activities are extended to the employees.

- 1.Support to pursue Higher Education – Ph.D. Full Time / Part Time and PDF.
- 2.Financial assistance to attend Seminar / FDP / Workshops / STTP.
- 3.Incentives for Funded Projects.
- 4.Revenue sharing with faculty for Consultancy / Testing.
- 5.Cash incentive for Publications, R&D work and MOOCs.
- 6.Free Hostel accommodation to Faculty members.
- 7.Residential Quarters facility for Faculty.
- 8.Recognition for Best Faculty, Researcher and Placement Co-ordinators

Faculty Performance Appraisal and Development System:

The institution follows the self-appraisal system to evaluate and enhance the performance of faculty members. The performance score is calculated for 100 points. Different Academic Performance Indicators (API) is fixed for all faculty members. The faculty from all the departments is given proper orientation with supportive guidelines along with weightings for each API. The guideline for Faculty Performance Appraisal is also given to the faculty. The performance review of individual faculty provides an opportunity for continuous improvement and taking remedial actions.

The purpose of the evaluation is given as

- i) Evaluate and promote quality in the teaching/learning process.
- ii) Meet the educational requirements and expectations of student's community

At the end of every assessment year, faculty appraisal is organized with the approval of management. The self appraisal form is collected for evaluation from the faculty at the end of assessment year. Incentives and Rewards are given to the faculty based on their performance in the following criteria,

Criterion 1: Academic Contribution (50 points)

Criterion 2: Research Contribution (25 points)

Criterion 3: Professional Upgradation (15 points)

Criterion 4: Sponsored/ Consultancy projects (10 points)

Appraisal form is collected from each faculty at the end of assessment year and it is consolidated by Head of the Department. The relevant actions are based on outcome of the report. If low performance of the faculty is observed, proper mentoring will be given to the faculty by Head of the Department and Principal to strengthen their academic and research contribution etc.

Based on the self appraisal by the faculty the Head of the Department validates the data given by faculty against evidences produced. The merit of the faculty is categorized on different levels based on their performance. Accordingly appreciation and increments are provided to the faculty.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.3.2

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
75	68	57	65	81

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

6.3.3

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

Response:

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

2021-22	2020-21	2019-20	2018-19	2017-18
103	94	83	88	108

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

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

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	View Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document

6.4 Financial Management and Resource Mobilization

6.4.1

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

Response:

Karpagam Charity Trust is a philanthropic organization with high moral values which has established various Educational Institutions in which Karpagam Institute of Technology forms a part. The mobilization and optimal utilization of resources is in accordance with the objective of the institution's management and a well constituted council and leadership which conducts financial audits regularly.

Mobilization of funds is mostly warped mainly through the sources of tuition fees. The institute also receives funds through scholarships from the State. The providence of the philanthropic trust helps in providing funds to the institute whenever in need. The hostels are judiciously maintained with the hostel fee collected from the students.

Different departments of the institution bring out their annual budget considering the expenses of the full financial year, expenses on different heads like periodical maintenance, upgradation of machinery, infrastructure and building, laboratory equipment, purchase of books and journals for library, labour, salary expenses etc., are taken into account.

The budgets are verified and sent to the approval of the Management by the strongly constituted finance committee headed by the Principal. Intermitted audit processes ensure that the expenses are well within the limits of the allocated budget for the institution. The finance committee holds the responsibility of managing the institute's expenses throughout the year Expenses arising of immediate exegencies are directly approved by the management without time delay.

The details of all the incomes and expenses are updated in the institutions ERP with all the supporting documents ready for audit at any point of time. An internal audit system in place acts as a regulating body which physically audits all transactions in real time. Routine entries are made in the mandatory registers and account ledgers.

Internal Audit and External Audit

The internal audit team reports to the administration of regulatory flaws if any and reports to the statutory auditors appointed by the management. Physical verification of goods and services, maintenance of books of accounts, preparation of balance sheet and maintaining the temporary and permanent loan ledgers are some outlined responsibilities of importance.

The audit team conducts routine and surprise audits at different periodicities like monthly, quarterly, half yearly and annually. The auditors prepare the annual account statement and distribute that to the management recommending good practices worth following and control measures for future expenditure. The account statement helps as total guideline for budgeting future planning and development activities of the institution.

File Description	Document
Upload Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The Internal quality Assurance Cell of the institute is constituted as per the guidelines of NAAC. IQAC functions under the guidance of the Management and Principal. It significantly contributes with strategies and procedures to be followed within the institute to achieve academic excellence through planning, guiding and monitoring educational activities of the Institute.

Strategies and Processes

Effective implementation of quality initiatives are done through periodic meetings and ensured through procedural reviews. Quality audits are conducted internally after every semester and externally through annual audit process. The following activities are periodically reviewed by IQAC:

- Planning and implementation of curriculum deliverance.
- Teaching-Learning Methodology.
- Monitoring and conducting CIA and University Exams.
- Activities for research and innovation.
- Extension activities emphasizing community services
- Establishment of Industrial Links.
- Training and Placement initiatives
- Utilization of Scholarship availed and strategies for admission.

Functions of IQAC

- To ensure strict adherence of Outcome Based Education
- To ensure conduct of Class committee meetings and review its minutes.
- To review Class room observation made by HOD.
- To review Minutes of Department Meetings and Actions taken thereof.
- To review result analysis post Internal Tests and University Examination and formulate corrective actions.
- To review feedback response from students, parents and other stakeholders on academic practices.
- To conduct inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
- To review documentation of various programmes and activities leading to continuous improvement.

- Dissemination of information on various quality parameters for higher education.
- To plan and conduct Academic Audits at regular intervals.
- To develop quality as a culture in the institution.

IQAC Audit Process

- Internal Audit is conducted during every semester. The scope of the audit is quality assessment in Teaching Learning Process.
- External Audit is conducted annually. The scope of the audit is to assess the quality of academic initiatives and institutional policies.
- IQAC coordinator reviews the observations made by the auditors and ensures actions taken.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5.2

Quality assurance initiatives of the institution include:

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

Response:

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

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

Gender equality forms an integral part of our high valued society. The Institute promotes plans and activities in a strategic perspective through the Institution's Women Empowerment Cell. The institute fosters a culture of female gender equality and respect. The cell enhances the self-esteem and self-confidence of the students and faculty, motivating them to higher sprit of developing entrepreneurial skills and career development making them independent. The Institute's women empowerment cell provides a platform for women to share their experiences and views and suggest ways for improvement and empowerment.

Meetings and club activities are conducted as per pre-planned schedules and records all eventualities individual roles and responsibilities. The cell creates awareness with the objectives of women empowerment that strengthen their self-confidence. Different events and competition are organised by the club and students are encouraged to actively participate which is expected to directly empower female students and faculty on physical, economic and social grounds.

All cell related events and activities focused on preventive health issues and provisions of opportunities provided and can be made available. Women empowerment cell by their activities educate the students to inculcate the habit of entrepreneurship among youth. A clear distinct line of understanding, education and empowerment makes the students not to fall prey to sexual abuse, harassment at work place, domestic abuse of any accord and to brief them about the constitutional rights available to prevent them from disasters.

Self driven policy measures to maintain gender equity and sensitization in different walks of institutional activities and balanced practices in providing facilities for women in the campus is taken care by the Women Empowerment Cell. Due priority is provided for women to take part in curricular and co-curricular activities so that equity of gender and worshipping women-hood becomes important in the campus.

The management has provided well structured girls hostel providing room for women faculty and students with highly protected fencing, fully equipped CCTV cameras on surveillance round the clock. Well trained wardens directly reporting to the Principal for any flaws and discrepancies ensure smooth conduct of daily activities. These wardens mandatorily take part in the meetings especially conducted for women ensuring safety standards. A female Physical Director specially trains girls' students in sports activities and guide them in specifically allocated gym timings.

Women security guards carry out periodical rounds in and around the girls' hostel and maintain high vigil in supporting internal activities of the hostel. Women faculty act as care takers for girls students during the academic sessions and ensure girl students are physically supported and mentally elevated.

Women in our campus are encouraged to make use of "Kaaval Uthavi Application" in case of emergencies. Round the clock medical facility and health care are provided through our self run Karpagam Hospitals situated abreast our Institution. A medical room provides necessary medical aid to students falling ill by a highly committed medical crew of our hospital. Women are allowed to take convenient breaks whenever needed for which dedicated common rooms have been provided with neat resting facility.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.1.2

The Institution has facilities and initiatives for

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

Response:

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

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The

institutional environment and energy initiatives are confirmed through the following

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

Response:

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

7.1.4

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

Response:

Karpagam Institute of technology is being driven by strong philosophy of creating indelible inference through integrity and attitude of inclusive behaviour. Our educational vision walks by twirling strands of social and ethical values, with great care and effort creating an inclusive environment following ethical and moral values towards deeds of success. Activity oriented ambience, ethically maintained cultural values and continually developed value chains are fabricated by our clubs and associations. The students and faculty take part in these activities with immense pleasure and responsibility following the stand taken by the institution.

Tolerance and Harmony towards Cultural & Regional factors

The immediate objective of the decision taken by the institution to include values of diversified culture,

linguistic, regional, communal, socioeconomic, moral and ethical values are coordinated with the day to day activities and assignments. Being an educational hub and the best of its geographical location Karpagam Institute of Technology is a sought destiny for technical education where students from different states, cultures, regions and communities with varsity of socio economic backgrounds and linguistic importance study. From the induction of the course up to final year placement drives, the institutes ensures through all its capabilities to provide an inclusive environment by celebrating different cultural events like Gokulashtami, Bakrid, Onam, Vinayagar Chaturthi, Navarathiri, Diwali, Christmas, New Year, Pongal, Ramzan, Good Friday, Tamil New Year, Ugadi etc., these celebrations bring in communal integrity where each and every student understand and celebrate the moral, social and virtue of different regions and communities.

Institutional activities through different chapters, regulatory bodies and clubs enrich students and employees with extended knowledge of their constitutional obligations. The institute sensibly undertakes provisions of carrying the essence of such knowledge invariably to the students and employees through different social outreach activities of Eco Club - emphasizing the environmental needs, with NSS, YRC, RRC and Rotaract Club creating communal awareness of integrity, social well being, communal attitude and behaviour, population control, awareness during pandemic, human safety, litigations of different sorts, child abuse and women empowerment.

Underlining the constitutional values, duties and responsibilities and at par utilization of constitutional obligations have been challenged by the institution. Programmes to centralize and publicise the constitutional values where students and employees are partnered in outreach activities through constituted clubs during periods of constraints were all the lessons imparted to them. Common process of valuing the mentoring levels of students, we learn that the institution has achieved tangible benefits and the students also took up well nurtured career. The institute has featured well organized academic ambience which has converted students of all races into responsible citizens, above all overstating the institute shall guarantee irreplaceable technocrats in the society.

Undoubtedly the herculean task of creating an egalitarian society with higher quality of understanding the modest value with moral milestones in this diversified economy is on the shoulders of today's intellect.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.2 Best Practices

7.2.1

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

Response:

Best Practice-1

1. Title of the Practice

Career Development Strategies and Placement initiatives

2. Objectives of the Practice

To produce industry ready engineers with up to date abilities and contemporary skill sets enabling confident and trust worthy practices wherein students may face multiple accomplishment successfully and acquire job related competencies.

To analyze the management and professional skills expected in students and equip them with required problem solving abilities, to communicate and to lead elaborate industrial segments with a scheduled time table for the complete duration of the course.

To provide convulsive career guidance that can extend students capabilities for higher education, civil service examinations and competitive examinations.

3. The Context

In view of creating a healthy career oriented environment and build better understanding of industrial practices, the institute has arranged Industry sponsored laboratories like Texas Instruments lab, Robotics Lab and Repute Software Development Laboratory and have created Centre of Excellence which provides up to date knowledge of the industry and latest technologies.

Our placement trainings are initiated as early from the first year with dedicated internal faculty team. An online portal ([http:// 10.10.13.6:8081/](http://10.10.13.6:8081/) Logical Test) is used for training students on logical, aptitude and technical abilities.

4. The Practice

The institution adheres to well planned training schedule from the first semester to enable students to clearly understand their career goals and the preparations required to achieve the goals providing them ample time to potentially develop their career objectives.

Experts from our Alumni are invited for special discourses among students where they share success stories, ways and means to achieve a better career bench mark.

Industrial experts from various walks of profession are invited to share their expertise in different fields of interest like Human Resources, Soft Skills, Administration, Management, Finance, Industrial Engineering, Quality and Production. Elaborate exposure and viability to nurture exponentially in the fields of Soft Skills, Verbal and Written Communication, Ability in Presentation, Problem finding and

Solving Techniques are widely gained during Professional and hand-held guidance.

1. Evidence of Success

The below are the detailed statistics of evidence proving success among eligible candidates:

Year	2021-22	2020-21	2019-20	2018-19	2017-18
Total Students	120	231	280	337	281
Placed	109	213	255	315	256

6. Problems Encountered and Resources Required

The students joining the institution are from various districts and neighboring states who are provided with orientation and bridge courses to facilitate placement activities. Leveling of students from different cultural background, knowledge levels and learning temperaments gives pathway to identify slow learners who require additional focus for successful placements. Such slow learners are specially trained in the areas of spoken English, soft skills and other trades so that placement training can be in-line and level with other incumbents.

As an institute affiliated to Anna University, Chennai adhering to their curriculum and syllabus prescribed, our scope is limited to inculcate knowledge in relation to the rapid industrial growth and technological advancements. Although placement training schedules are adequate in the institution, it is found difficult to balance academic schedules and placement training.

Best Practice-2

1. Title of the Practice

Cross functional learning through Club Activities

2. Objectives of the Practice

To provide opportunity for developing skills in multidisciplinary areas of departmental, cultural, societal, multifunctional charters and thereby creating an approach to holistic multidimensional learning which can nurture students' career and convert students as multitalented individuals enabling them to face future challenges.

3. The Context

Spooling down interest of the students in different clubs and activities formed by the institute understanding the social demands has been purely evident of the institute's performances.

4. The Practice

Contributing to wellness of the society our institution focuses on participatory learning where each student and the institution not only contribute in academics but also in arts, culture and club activities. Interdisciplinary and multidisciplinary activities are emphasized more in associating programmes of

Technical Clubs, Outreach activities, Personal Development, Professional Chapters, Arts, Culture and Department Association as stated in the National Education Policy 2020.

Our Eco Club, NSS, YRC, RRC and Rotaract Club actively participate in outreach activities touching the common man with clear objectives of social well-being. Due importance of learning during organizing such events is prioritized in these activities.

Rarest of the quality finesse in arts and culture is brought out through the Fine Arts club and Tamil mandram. These clubs celebrate joy and happiness of the very common man brining fragrance throughout the institution. The media-club brings out special writing and editorial skills among students besides learning the art of media reporting.

Department Student Association is an overall celebration of the department which conducts annual association meetings and a series of departmental activities which include contests, events, workshops and guest lectures, creating substantial impact in academic activities.

5. Evidence of Success

Familiar evidences of reaching out the neighbourhood community are profoundly understood by the social connect of the institution. Our outreach programmes have a clear distinction and social recognition because of its clarity in their objectives.

The institutes' foresighted objectives to nurture the students' quality in professional gerrymander are implied through its personal development programmes. These activities not only focus on their academic sectors but also right through their career reaping intended results in physical, mental and psychological acclaim of our students.

Activities of professional chapters aid in establishing professional relationship and continuing the same throughout students' career. The institute collaboratively infuses objectives of interdisciplinary and multidisciplinary partaking in all club and cultural activities thereby ensuring contrastive togetherness among all departments and disciplines understanding core virtues of each other.

6. Problems Encountered and Resources Required

Multiple activities are undertaking by different clubs and chapters focusing on their association objectives in short time leaving very less time and scope for detailed planning of the activities. Equal and multiple priority needs to be given for budgeting, planning and methodically detailing of the events and activities.

In an atmosphere of continuous growth of initiatives taken for the conduct of chartered activities and demanded increase in courses, the institution foresees the necessity of adding to infrastructure predominantly approved and available.

File Description	Document
Best practices as hosted on the Institutional website	View Document
Any other relevant information	View Document

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:

Pragmatic Teaching and Learning Environment with Modern Pedagogy to impart quality education

Expectation in today's industry has grown to a pronounced state where modern pedagogy is required to fulfil the needs of imparting quality education. Pragmatic teaching and learning environment is created using methodological approach to envisage this particular task. To create a practical academic environment, scaled procedures with measurable quality levels for ease of learning are implemented. These are broadly categorized into different pedagogical methods, for which periodical faculty development programmes are being organized by the Internal Quality Assurance Cell.

The Internal Quality Assurance Cell ensures that the process of prescribing chosen modern pedagogy practices to be followed during teaching learning process in the departments for different sessions.

The institute chooses "Pragmatic Teaching and Learning Environment with Modern Pedagogy to impart quality education" as its area of thrust and distinctive priority because these proven outcome based results aid towards fulfilling the requirements of Industry 4.0.

Unlike traditional methods of teaching, modern pedagogical modules have demonstrated that there is an evident clarity of measurable achievement as outcomes in teaching learning process. The results also reinstate on the elaborate ideology of critical thinking perspectives which can be developed in the teaching practices.

Cooperative Learning

The science of learning has extended in all aspects to contain and to understand how good modern pedagogy helps in learning. When small groups are four or eight students gather together as a team they

find it easier, time saving and advantageous. They also find that their findings and understanding get immediate attention and feedback so as to correct, assimilate and project those in their academic standards. The below are immediate tools in Cooperative learning which are used by our faculty: Crossover and Peer learning, Flipped and Participative Classroom, Thinking and Competency Based Learning, Think Pair Share and Jig-saw.

Inquisitive Learning

The quantum of inquisition which occurs in active learning process of a student has always remained paradox to measure, reflecting in long term non clarity in a subject. Tools in inquisitive learning used in this institution defy the paradox as the outcomes received are immediate and the rectification can be effortless. Some of the tools are Inquiry based Learning, One minute paper, etc.

Experiential Learning

Experiential learning is yet another dimension in modern pedagogy where practicals and experiments are conducted and the apprehensions of the learning are recorded as results. Deviation or failure in experiment practices allow them to repeat the whole process again till positive results are obtained.

Clear step by step activities are recorded during conducting projects mini projects and contests which are reviewed by the faculty periodically to check deviations if any. These projects have been noted for better clarity and understanding of students as they get to have fresh hands on experience in the conduct of those. The institute identifies the current requirement of the industry which are not part of their syllabus and constitute these as value added courses thereby making them ready for the industry. Internships and Industrial visits are arranged in the topics required due diligence and elaboration before inducting into the main stream of the industry.

The institute takes the help of industrial experts to deliver partial curriculum of the course agenda. The exponential experience of the industrial experts opens and clears the thought process of the students thereby gaining fresh knowledge, clarity in subjects and to understand the industrial work culture far better. Kinsmen from the cream of the industries are left to have free hand for mentoring our students on their interests and industry related information.

Stealth Learning

Although traditional learning forms a part of education system, modern pedagogical tools and techniques are used to equate knowledge quotient levels in students to brighten the teaching learning environment. Memory practices enhancing the students' skill levels, methods to increase the style of thinking, learning through games, teaching tactics by breaking continual learning process and teaching by undermining core subjects but indirectly provoking the students' solution finding ability are some more modern pedagogical methods in the teaching menu.

Computational Learning

New pedagogical methods in the emerging science of learning emphasize different creative tools which can be successfully used to make students to understand defined thresholds of teaching and learning practices. Familiar methods used in traditional teaching without being christened as modern pedagogy are also mapped under the technique of learning to learn. Context Based Learning and giving solutions to open ended problems can happen through observations without the intervention of direct teaching. Computational learning processes brains with different complexities to better intelligence if utilized rationally.

Benchmarks and milestones during the walk of pragmatism

Human beings have extensive and remarkable continual learning systems which cannot be avoided throughout his expanding life until death. Systematic traditional educational process has led to limited formal thinking without expansion in the territory of modern innovative thinking. Identifying the necessity of familiar methods which can be utilized in the distinctive areas of education, our institute adapted to the culture of initiating the utility of modern pedagogical techniques. Capitalizing on the capacities of identifying core knowledge values which can bring in developmental change in Faculty Development Programmes to identify and expand values of modern education begun. The induction of bringing in new ideologies of modern pedagogy into practice was never too easy in the traditional educational scenario. Continuous reformations and discussions among peer educators added value in the modernization of age old culture. Identifying techniques of modern pedagogy and utilizing them appropriately brought in remarkable change in the learning attitude of students, where there was evident progress in students understanding in identifying the intelligent quotient was a prominent earmark. Students can now understand and reciprocate with immense interest and show definite progress in their results. The growth has expanded its values during placement training schedules and career initiatives undertaken by the institute. The vision of creating a theatrical teaching learning ambience and adaptive methodological practices with the continuous update of faculty understanding levels place our institute in the modern educational map.

File Description	Document
Appropriate web in the Institutional website	View Document
Any other relevant information	View Document

5. CONCLUSION

Additional Information :

Karpagam Institute of Technology was established in the year 2018, with a doctrine of adhering to its prominent Vision through well planned strategical Missions and initiatives with the objective of continuous service to the society by imparting up-to-date technical education and creating value through continual growth and Inspiring Innovations.

Without the untiring and meticulous efforts of philanthropic minds of Karpagam Charitable Trust headed by our Chairman Dr. R. Vasanthakumar, these dreams would have not been possible.

Karpagam Institute of Technology through its inception had been upgrading and seasoning itself to cater to immediate needs of the society by imparting industry relevant technical education. The ethical value system evolved during these many years have been an epitome and testimony to this.

1. Continuous Star rating of Institute's Innovation Council at its active momentum.
2. Band promising rating by ARIIA
3. NBA Accreditation for CSE, ECE and IT Departments.
4. ISO Certification
5. Active NPTEL Local Chapter
6. Faculty Excellence Awards
7. Advanced Infosys Campus connect programs
8. Excellence in University and Zonal Level Sports Grading in Boxing and Cycling
9. Successful implementation of Skill Development Program and different Government Schemes like Naan Muthalvan, Swachh Bharath Abhiyaan, Unnath Bharath Abhiyaan, MHRD - IIC
10. Active participation in co-curricular and extra - curricular activities
11. High Placement record with best placement training and post placement audits
12. Calm, Eco friendly, Energy conserving, Green Campus with solid waste degradation process
13. Scholarships for meritorious and economically deserving candidates
14. Fully equipped laboratories and well experienced faculty
15. Periodical Alumni, Industry Expert Interactions talks, training and Seminars

16. Center of Excellence with peak Industrial participation
17. Envisioned Infrastructure, Laboratories, Digital Library access and Wi-Fi enabled Campus
18. Hostel Accommodation for Boys and Girls
19. Periodical Internal audits by IQAC and third party Audits to ensure remarkable Teaching and Learning Process

Concluding Remarks :

The Institute aims at continual improvement and is been implementing the National Education Policy. We believe that total involvement of all the stake holders in promoting industry based technical education is successfully responding to the needs of the society by building coherent educational values and adding innovations. Sovereignty in selection of value adding factors for study from today's industrial practices and societal needs is need of the hour. The responsible endeavour of this Institution shall be in aiming at an explicit autonomy creating hope and scope to present societal affirmation, now tomorrow and forever.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p>Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)</p> <p>Answer before DVV Verification :</p> <p>Answer After DVV Verification :93</p> <p>Remark : As per clarification received from HEI, DVV input is recommended.</p>																				
1.2.2	<p><i>Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</i></p> <p>1.2.2.1. Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>1152</td> <td>907</td> <td>860</td> <td>1017</td> <td>1187</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>1136</td> <td>807</td> <td>715</td> <td>850</td> <td>1003</td> </tr> </tbody> </table> <p>Remark : As per clarification received from HEI, DVV input is recommended.</p>	2021-22	2020-21	2019-20	2018-19	2017-18	1152	907	860	1017	1187	2021-22	2020-21	2019-20	2018-19	2017-18	1136	807	715	850	1003
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2.1.1	<p>Enrolment percentage</p> <p>2.1.1.1. Number of seats filled year wise during last five years (Only first year admissions to be considered)</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>420</td> <td>348</td> <td>217</td> <td>134</td> <td>263</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>434</td> <td>348</td> <td>217</td> <td>134</td> <td>263</td> </tr> </tbody> </table> <p>2.1.1.2. Number of sanctioned seats year wise during last five years</p> <p>Answer before DVV Verification:</p>	2021-22	2020-21	2019-20	2018-19	2017-18	420	348	217	134	263	2021-22	2020-21	2019-20	2018-19	2017-18	434	348	217	134	263
2021-22	2020-21	2019-20	2018-19	2017-18																	
420	348	217	134	263																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
434	348	217	134	263																	

2021-22	2020-21	2019-20	2018-19	2017-18
420	420	420	420	420

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
435	429	420	420	420

Remark : As per clarification received from HEI, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
242	218	135	81	194

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
224	201	135	81	184

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
225	202	213	242	248

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
225	202	213	242	248

Remark : As per clarification received from HEI, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
116	101	100	102	130

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
103	94	93	88	117

Remark : As per clarification received from HEI, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
117	227	274	244	193

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
117	227	274	244	193

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
120	231	280	337	281

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
120	231	280	338	281

Remark : As per clarification received from HEI, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
3	5	2	3	3

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
2.79	4.65	2.6	3.12	2.85

Remark : As per clarification received from HEI, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
32	30	26	20	15

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
25	24	30	17	10

Remark : As per the clarification received from HEI, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
33	42	54	11	14

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
35	48	26	9	12

Remark : As per clarification received from HEI, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
158	144	134	160	154

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
165	141	136	157	80

Remark : As per clarification received from HEI, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
27	18	24	20	17

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
09	05	17	10	08

Remark : As per clarification received from HEI, DVV input is recommended.

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

Answer before DVV Verification :

Answer After DVV Verification :25

Remark : As per the supporting documents, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
109	213	255	315	256

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
107	211	250	232	178

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
120	231	280	337	281

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
117	227	274	244	193

Remark : As per clarification received from HEI, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
84	74	75	76	92

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
75	68	57	65	81

Remark : As per clarification received from HEI, DVV input is recommended.

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

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

Answer before DVV Verification:

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

116	101	100	102	129
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Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
103	94	83	88	108

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

Answer before DVV Verification:

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

Answer After DVV Verification :

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

Remark : As per clarification received from HEI, DVV input is recommended.

6.5.2

Quality assurance initiatives of the institution include:

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

Answer before DVV Verification : A. Any 4 or more of the above

Answer After DVV Verification: B. Any 3 of the above

Remark : As per the clarification received from HEI, DVV input is recommended.

2.Extended Profile Deviations

ID	Extended Questions										
1.1	<p>Number of teaching staff / full time teachers during the last five years (Without repeat count): Answer before DVV Verification : 262 Answer after DVV Verification : 145</p>										
1.2	<p>Number of teaching staff / full time teachers year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <tr> <td>2021-22</td> <td>2020-21</td> <td>2019-20</td> <td>2018-19</td> <td>2017-18</td> </tr> <tr> <td>116</td> <td>101</td> <td>100</td> <td>102</td> <td>130</td> </tr> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	116	101	100	102	130
2021-22	2020-21	2019-20	2018-19	2017-18							
116	101	100	102	130							

Answer After DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
103	94	93	88	117