



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES
Name of the head of the Institution	Dr. P. Mannar Jawahar
Designation	Vice Chancellor
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	0422-2614311
Mobile no.	9383833388
Registered Email	vc@karunya.edu
Alternate Email	registrar@karunya.edu
Address	Karunya Nagar
City/Town	Coimbatore
State/UT	Tamil Nadu
Pincode	641114

2. Institutional Status																			
University	Deemed																		
Type of Institution	Co-education																		
Location	Rural																		
Financial Status	Self financed																		
Name of the IQAC co-ordinator/Director	Dr Tensing D																		
Phone no/Alternate Phone no.	04222614572																		
Mobile no.	9487846515																		
Registered Email	director_qaa@karunya.edu																		
Alternate Email	dtensing@karunya.edu																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://www.karunya.edu/igac/aqar																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.karunya.edu/academiccalendar																		
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>2.91</td> <td>2016</td> <td>25-May-2016</td> <td>24-May-2021</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B	2.91	2016	25-May-2016	24-May-2021
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	B	2.91	2016	25-May-2016	24-May-2021														
6. Date of Establishment of IQAC	01-May-2004																		
7. Internal Quality Assurance System																			
Quality initiatives by IQAC during the year for promoting quality culture																			
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries																
Leaders Training Program	14-Jun-2019 1		46																

Freshers Orientation Program	17-Jun-2019 12	36
Workshop on IPR	18-Jun-2019 1	130
Awareness seminar on Governmental policies related to Crime Prevention, Criminal Justice and Treatment of Offenders	24-Jul-2019 1	331
Colloquium on Thrust Areas (Health, Energy, Food & Water)	20-Jun-2019 2	331
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. J. Jayakumar	UGC Research Awardee	UGC	2019 730	1453995
Dr. Elijah Blessing	Extramural Ad-hoc	ICMR	2019 1095	1002331
Dr. D. Nirmal	Visvesvaraya Ph.D Scheme	Media Lab	2020 365	512363
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. Academic Course file auditing 2. NIRF Ranking 3. NBA accreditation for B.Tech CSE, B.Tech ECE, and B.Tech Biotechnology 4. QS I Gauge Rating Gold Rating 5. Preparation of Road Map for institutional development and monitoring of the targets.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Targets for Publications in Scopus and Web of Science Indexed Journals for the faculty members	Publications in Scopus Indexed Journals and in Web of Science indexed Journals by faculty members increased by fifty and ten percentage respectively
Preparation of e-Course files and online evaluation by External Experts from Eminent Institutions	E Course File auditing conducted for two semesters. The comments were communicated to Heads of the Departments and Action Taken reports were obtained
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
IQAC Meeting	24-Nov-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

05-Apr-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

03-Aug-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)

'Eduserve' an ERP of KITS manages all Academic and Administrative matters of its Stakeholders. There are 10 modules, such as HR, Students, Academics, Tests,

Hostel, Admissions, MIS, Payment, Support and Transport, with the details and processes mentioned below: HR Module: Faculty Leave process and approval, Biometric details, Salary details (Pay slips and Form 16), Process for Annual Increment and Online processing of applications for recruitment. Students Module: Personal details, Subject Registration, Attendance, Internal Assessment marks, Class Time table, Hall ticket generation, Exam Time table, Exam Results, NonAcademic Club Registration, Online payment of Fees, Receipt downloads, Leave applications (Personal leave, Medical leave, Request for Bonafide Certificate etc. Academics Module: Attendance (entry/change/delete), Attendance reports, Blue book reports (Teaching Plan and completion status), Internal Assessment (IA) (Registration, Entry of marks, Processing of marks, Reports), Mentors (Mentees details, Mentee attendance report, Leave approvals, Mentor Mentee Meeting minutes, Fees dues etc.), Exam duties and API (Data entry for Journal/conference Publications, Funded Project details, Patents, Placement, Consultancy, Incubation, Performance and Achievement Reports). Exam Module: Exam configuration, calendar and session management, time table scheduling, student seating, invigilation and other reports, Exam Attendance Limit Setting Exemption and Results Hostel Module: Hostel layout and Capacity, Room allotment, Hostel Attendance, Leave approval and Hostel Floor Staff allotment. MIS Module: Student Information on Class attendance, Leave Particulars, Fee Dues, Students on 'out of roll', Unmarked attendance, Students' feedback on Teaching Learning Process, Hourly feedback on classes etc. Finance Module: Creating fee demand, setting the limit for fee dues, fee exemption and fee payment. Support Module: Tickets for network service can be generated and Demo videos of the software can be viewed. Transport Module: Transport request, vehicle approval, transport cancellation and transport usage details can be obtained. The Parents can view the hourly attendance, internal marks,

semester results and grades, Mentor details and fee dues. This Portal is effectively managed and utilized by the University Administrators, Faculty, Students and Parents.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	1-3672511774	Civil Engineering	26/10/2019
BTech	1-3672511777	Mechanical Engineering	26/12/2019
BTech	1-3698748045	COMPUTER SCIENCE AND ENGINEERING	26/12/2019
BSc	Nil	INFORMATION SECURITY AND DIGITAL FORENSICS	26/12/2019
MBA	1-3720013267	MASTERS IN BUSINESS ADMINISTRATION	26/12/2019

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Mechanical Engineering	01/07/2019	18ME2063 Rapid Manufacturing Technologies	09/07/2019
BTech	Civil Engineering	01/07/2019	18CE2042 Design of Precast Concrete Structures	09/07/2019
BTech	Aerospace Engineering	01/07/2019	18AE2025 Navigation guidance and control of Aerospace vehicle	09/07/2019
BTech	Electronics and Communication Engineering	01/07/2019	19EC2036 Neural networks and Deep learning	09/07/2019
MBA	Masters in Business Administration	01/07/2019	18MS3074 Global Marketing	09/07/2019

[View File](#)**1.2 – Academic Flexibility**

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	Cyber Security	09/07/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Civil Engineering, Mechanical Engineering, Aerospace Engineering, Electrical and Electronics Engg	09/07/2019
BTech	Electronics and Communication Engineering, Computer Science and Engineering, Biomedical Engineering, Robotics Engineering, Food Processing and Engineering, Biotechnology, Agricultur Engineering	09/07/2019
BSc	Agriculture, Horticulture, Information Security and Digital Forensics,	09/07/2019
BCom	Commerce	09/07/2019
Mtech	Advanced Manufacturing Technology, Biomedical Instrumentation, Embedded Systems, Biotechnology, Food Processing and Engineering, VLSI Design, Computer Science and Engineering, Cyber Security, Environment and Water Resource Engineering, Structural Engineering, Renewable Energy	09/07/2019
MBA	Master in Business Administration,	09/07/2019
MSc	Information Security and Digital Forensics, Applied Chemistry, Mathematics, Applied	09/07/2019

	Physics, Nanoscience and Technology	
MA	Media and Communication, English	09/07/2019
BA	Criminology	09/07/2019

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Industry 4.0 (Data Analytics)	08/07/2019	49
Cloud Computing and IoT	09/12/2019	54
Remote Sensing and Digital Image Analysis	08/07/2019	58
SUSE-Certified Administrator	09/12/2019	11
Cambridge English Advanced - C1	09/12/2019	79
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Mechanical Engineering	183
BTech	Electronics and Communication Engineering	196
BTech	Electrical and Electronics Engineering	133
BTech	Biotechnology	117
BCom	Commerce	119
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
Karunya Institute of Technology and Sciences has various systems of student representation in academic and administrative bodies/committees as given below: Academic Affairs: Class Representatives - From every class of 60 students, six students are selected to represent the respective class in Class Committee meetings to offer feedback and suggestions for achieving the expected outcome

in all facets of the department. The meetings are conducted thrice every semester with the class representatives. The students share their ideas, interests, concerns regarding their classes, laboratories, faculty members, mentors and other welfare measures with the Heads of the Departments for necessary decisions and actions. The minutes of the class committee meetings are discussed in the faculty meetings to take appropriate corrective measures and ensure smooth functioning of the department. Matters pertaining to the University administration are presented by the Heads at the meeting with the Deans who represent the matter at the Executive Committee meeting chaired by the Vice-Chancellor. Other Representations: The student representatives are also inducted in Curriculum Development Cell (CDC), Board of Studies (BoS), Planning and Monitoring Board, Anti-Ragging Cell, Grievance Redressal Cell, SC/ST Cell and Internal Quality Assurance Cell. These students give feedback/suggestions on the quality and relevance of curriculum, learning practices, teaching methodology, examination evaluation, placement training and career counselling for higher studies, gender discrimination issues (if any) and matters pertaining to infrastructure. Residences: KITS being a residential Institution, all the students of the university reside on campus. Staying away from home and living on the campus premises, creates a unique and exciting learning experience as it enables peer learning beyond working hours, promotes mutual bonding for healthy living and learning together, provides emotional support and a sense of camaraderie among fellow students thus making residential life extraordinary and remarkable. In KITS efforts have been taken to provide a wide range of facilities for every student as the campus is a home away from home. The University has nine residences for men and five for Women to comfortably accommodate 8000 students. Hostel Welfare and Grievance Redressal Committee: Two students from each floor of the residential halls are invited to represent the residents in the committee. The opinion of the students on the maintenance of infrastructure, amenities, upkeep of rooms, recreational facilities and other grievances are discussed and addressed in the best interest of the students. Mess Committee: KITS has students representing all the states of India and hence regional menu is provided according to their choice. Students interested in the functioning of mess and monitoring food services are nominated as representatives. Three mess committee meetings are conducted for each regional menu every semester. These representatives communicate the feedback obtained from fellow residents to the mess administration periodically to ensure quality in food and effectiveness in service. Sports and Cultural Activities: Student representatives are also nominated for Sports and Extracurricular activities to address issues pertaining to the norms for participation in sports and cultural activities and the required facilities.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MBA	Master of Business Administration	120	793	110
BTech	Aerospace Engineering	60	422	52
BTech	Computer Science and Engineering	300	2105	291

BCom	Commerce	60	427	62
BA	Criminology	60	448	62
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	6071	726	357	46	403

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
403	403	141	139	9	5

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

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

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

Mentoring is a powerful personal development and empowerment tool to help students progress in their careers. It is a partnership between two – a faculty mentor a student mentee and is a relationship based upon mutual trust respect. A mentor plays a dual role as a 'parent' for a ward far away from his/her home and as a 'guide' who provides intellectual, moral and emotional support to their wards, thus helping them realize their potential to excel in academics with life skills and ethics. Implementation of the Mentoring System: Mentoring is a youth development strategy that can create a path to successful adulthood and career for the students. A mentor shall have a maximum of 22 students (MENTEES) allocated to him/her. The mentees shall be attached to the same mentor for the entire duration of their study. The mentor shall update all necessary details pertaining to their wards (postal address, contact number, Email Id) in the MIS periodically. The mentors shall meet the mentees twice a month and interact with them during the slots scheduled in the timetable and upload the minutes of the meeting in the MIS. The mentors update the mentee's parents about the academic progress of their wards, class attendance, participation in placement drives, achievements, absence from hostels, disciplinary issues and health concerns if any. The mentors share the issues related to their wards with the respective heads of the departments during the faculty meetings and together address the concerns to resolve the matter amicably. Serious matters are escalated to the University Administrators for appropriate decisions and necessary action. The mentor-mentee system in the University is a healthy practice of the Institution as our students hail from different States across India and belong to different linguistic, socio-economic and cultural backgrounds. To ensure a seamless transition from their regional lifestyle to a multicultural residential environment in the University Campus, the mentors play a significant role in nurturing their wards, relieving them from apprehensions, building their confidence and preparing them for education and career development. This process of equipping the wards is facilitated effectively as many of the mentors and University administrators reside on campus and in the vicinity, thereby ensuring 24 x 7 support for conducive living and learning of our students. In the three decades since the establishment of KITS, this system of mutual bonding and fellowship between the mentor and mentee has been greatly appreciated and valued by the students even after their graduation. Reminiscing the time spent on campus years after leaving the portals of the Institution, most students turn nostalgic during alumni reunions, reaffirming the success of the mentor-mentee system in KITS.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
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6797

403

1:17

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
340	403	Nil	20	313

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. A. Brusly Solomon	Assistant Professor	Reviewer, Journal of Thermal analysis and calorimetry
2019	Mr. D.S. Ebenezer Jacob Dhas	Assistant Professor	IOP Outstanding Reviewer Awards, Materials Research Express
2019	Dr.Sneha Gautam	Assistant Professor	Young Engineer, Institution of Engineers
2019	Dr. Aldin Justin Sundararaj	Assistant Professor	Young Achievers Award, Institution of Engineers-India
2020	Dr.Esther Jegathambal	Professor	Rula Research Leadership Award,Rula Awards

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	UG	odd	20/12/2019	10/01/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
521	7150	7.28

2.6 – Student Performance and Learning Outcomes

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

<https://www.karunya.edu/po>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
1-3710593208	BTech	Biotechnology	110	103	93.84

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://karunya.edu/igac/reports>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. PRAVEEN KUMAR BANNARAVURI	POST DOCTORAL FELLOWSHIP	02/08/2019	IIT, GUWAHATI
National	Dr. ALDIN JUSTIN	YOUNG ACHIEVER AWARD	16/09/2019	THE INSTITUTION OF ENGINEERS-CBE CHAPTER (INDIA)
International	Dr. R. JEGAN	POST DOCTORAL FELLOWSHIP	01/05/2019	PURDUE UNIVERSITY, USA
National	Dr. SNEHA GAUTAM	IEI YOUNG ENGINEER AWARD (ENVIRONMENTAL ENGINEERING)	17/08/2019	INSTITUTION OF ENGINEERS INDIA (IEI)
National	Dr. M.S. A. MUTHUKUMAR NADAR	TAIWAN NEW SOUTH BOUND MEDICINE FIELD PROGRAM	05/05/2019	MINISTRY OF EDUCATION GOVT OF TAIWAN

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3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
Senior Research Fellowship	365	DRDO

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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1095	UGC	29.03	14.54
Major Projects	1095	DST	69.47	15
Major Projects	1095	DST	179	17.88
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3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
WEBINAR ON "IPR- A TOOL FOR PROFESSIONAL ENHANCEMENT"	AEROSPACE ENGINEERING	08/08/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Young Achiever Award 2020	Dr.Sneha Goutam	The Institution of engineers (India)	04/09/2020	Teacher
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
KIIC	Karunya Innovation and Incubation Centre	KITS	Auguth Pvt Ltd	Servicing	05/08/2020
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Civil Engineering	9
Mechanical Engineering	14
Electronics and Communication Engineering	13
Electrical and Electronics Engineering	1
Electronics and Instrumentation Engineering	1

Computer Science and Engineering	8
Biotechnology	4
Food Processing and Engineering	2
MCA	1
Information Technology	3
English	1
Mathematics	4
Physics	4
Chemistry	5
Water Institute	1
Bioinformatics	3

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mathematics	51	3.59
International	Mechanical Engineering	87	3.00
International	Computer Science and Engineering	137	2.72
International	Biotechnology	52	2.86
International	Electronics and Communication Engineering	214	2.4

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

Department	Number of Publication
Civil Engineering	25
Mechanical Engineering	85
Electronics and Communication Engineering	88
Computer Science and Engineering	79

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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
Method of Making Antimicrobial Fabric using Silver Nanoparticles, Banana Sap and Natural Dye	Published	3774/CHE/2014	Nil

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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/

Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Deep learning based enhanced tumor segmentation approach for MR brain images	Jude Hemanth D	Applied Soft Computing Journal	2019	62	Karunya Institute of Technology and Sciences	58
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Nanoparticle induced biological disintegration: A new phase separated pretreatment strategy on microalgal biomass for profitable biomethane recovery	Kavitha, S., Schikaran, M., Yukesh Kannah, R., Gunasekaran, M., Kumar, G., Rajesh Banu, J.	Bioresour ce Technology	2019	273	Nil	Karunya Institute of Technology and Sciences
Interaction of cav in-1/PTRF leucine zipper domain 2 and its congenital generalized lipodystrophy mutant with model membranes	Mohapatra, A., Lokappa, S.B., Chaudhary, N.	Biochemical and Biophysical Research Communications	2020	252	Nil	Karunya Institute of Technology and Sciences
Fluoresc		Chemical	2020	229	Nil	Karunya

ence sensing of Al3 by an anthracene appended piperidone. Hindrance in excimer formation offered by β -cyclodextrin complexation	Poomalai, S., Soundrapandian, S., Ramasamy, S., Selvakumar Paulraj, M., Enoch, I.V.M.V.	Physics Letters			Institute of Technology and Sciences
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	29	338	340	574
Presented papers	5	34	38	33
Resource persons	5	25	80	72

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Hydro-ecological assessment for integrated Management of Point Calimere Ramsar Site	German Development Corporation (GIZ) and Ministry of Environment, Forests and Climate Change (MoEFCC)	4260000
Mechanical Engineering	TIME AND MOTION STUDY for fixing schedule of rates for Tamil Nadu under MGNREGS	Dr. K.S. Palanisamy, Director, Directorate of Rural Development and Panchayat Raj, Saidapet, Chennai	5195300
Mechanical Engineering	Wire Drawing Machine	Mr. Joshua White International Program Manager Supplier Management The Boeing Company P.O.Box 3707, Mail Code 11-103 Seattle, WA 98124	6368400

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Dr. V. Jegathesan, Associate Professor, Electrical and Electronics Engineering	SIMATIC S7-300 with STEP7 V5.6 Basic (Customized)	GSK, Kolar, GTTC etc	1578294	136

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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
National De-Worming Day - Competitions Ted-Speech and Debate - Non Academic Day 15th Feb. 2020	National Service Scheme	36	550
31st National Road Safety Week - Awareness Programme on Road Safety - Non Academic Day 11th Jan 2020	National Service Scheme	36	600
150th Birthday Celebration of Father of Nation Mahatma Gandhiji - Essay writing competition on Dangers of drug Abuse - Non Academic Day 10th Aug 2019	National Service Scheme	36	600

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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Best Performance	Rajaya Puraskar Award	State Level - Governor Award	10

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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
NSS - Ministry of Sports Youth Affairs	National Service Scheme	150th Birthday Celebration of Father of Nation Mahatma Gandhiji - Essay writing competition on Dangers of drug Abuse - Non Academic Day 10th Aug 2019	36	600
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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Karunya - Israel Research Fellowship (International)	10	KITS	9
Journal Paper	73	KITS	90
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
INTERNSHIP	SATELLITE MISSION DESIGN	TECHNICAL UNIVERSITY BERLIN(TUB)	09/10/2020	14/11/2020	15
INTERNSHIP	DAIRY	MILMA	15/05/2019	29/06/2019	12
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3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
THE HINDU	23/08/2019	ADD ON COURSE	110
CENTER OF EDUCATION IN DIGITAL FORENSICS	03/08/2020	CLASS HANDLING, PROJECT GUIDANCE AND PLACEMENTS	94
ACCA (UK)	13/11/2019	ACCA SYLLABUS FOR PLACEMENT	60

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
3836.51	517.33

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
No file uploaded.	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
AutoLib	Fully	Advanced university version	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
e- Journals	4866	26329870	3447	2549171	8313	28879041
Digital Database	2	15308638	1	2185823	3	17494461
CD & Video	5096	807215	12	1900	5108	809115
Library Automation	Nil	195000	Nil	Nil	Nil	195000
Text Books	126823	45690319	877	369156	127700	46059475
Reference Books	8986	19336019	169	232107	9155	19568126

e-Books	142618	1367379	177730	1112076	320348	2479455
Journals	7847	20863256	185	360383	8032	21223639
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. G. Prince Arul Raj	Design of reinforced concrete elements	Institutional LMS	09/07/2019
Dr. L. Godson Asirvatham	Thermodynamics	Institutional LMS	09/07/2019
Dr. Ram Krishan Sharma	Space Dynamics	Institutional LMS	09/07/2019
Dr.G.Hemalatha	Seismic Analysis and Design of Structures	Institutional LMS and Google Classroom	01/11/2019
Dr. D. Sujitha Juliet	17BI2015 - Machine Learning Principles and Applications	Institutional LMS and Google Classroom	01/11/2019
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	2625	18	1200	18	3	1	0	1200	0
Added	5	0	100	0	0	0	0	100	0
Total	2630	18	1300	18	3	1	0	1300	0

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

1300 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Karunya Media Centre	https://www.karunya.edu/mc/facilities

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities

165859801

144570587

37745000

43349054

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Class Rooms and Laboratories: Class rooms are provided with black board, LCD projectors, furniture and electrical fittings. Laboratories are provided with Equipment, Electrical connections, furniture, safety equipment etc. The Construction and Maintenance Department of the University regularly takes care of the maintenance of all the above facilities. For any additional service requirement, the Departments/Sections will raise 'Online Service Requisition'. The required service will be rendered within 3 days from the date of request. Class rooms are allocated based on the time table generated through ERP for various batches of students according to the Choice Based Credit System. The laboratories are well utilized during the working hours as well as beyond working hours. The movement of the students are monitored through Surveillance Cameras to ensure safety and security. **Central Library:** The Central library is equipped with facilities and resources in the form of books, e-journals, e-books, audio video cassettes, journals, open web catalogues, Digital Library, etc. The Departments send their requirement during the beginning of each academic year and the library procures the same as per the norms of the Institution. The library is functioning with the support of dedicated staff comprising of a Chief Librarian, Deputy Chief Librarian and 4 Library Assistants. The Library is kept open from 8AM to 11PM from Monday to Friday and from 8AM to 5.30PM on Saturdays. Bar code system has been implemented for the issue of books to the students. The books are issued for a period of 15 days and can be extended for another 15 days upon request. Footfalls are tracked through biometric registration and students are motivated to use the library effectively to update their knowledge and hone their reading and analytical skills. **Sports complex:** The sports complex is maintained well with the support of sufficient ground markers. A budget is allocated for the maintenance of the facilities during each academic year. The indoor, outdoor and fitness centre are open to all students and the utilization of facilities are monitored. Part time qualified Coaches are available for major games to offer professional training to students. **Computer Technology centre:** Computer Technology Centre is maintained by a team of technicians under a Head (CTC) who attends to most of the services. Online tickets have to be raised for any service requirement which is attended within 2 days. Major Hardware faults are handled by appropriate vendors. 17 Computer laboratories are optimally utilized by the departments. In addition, the Centre is also booked for conducting Aptitude tests, Placement training and Software training beyond working hours.

<https://www.karunya.edu/iqac/reports>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Enrollment Merit Scholarship	615	32544600
Financial Support from Other Sources			
a) National	Govt. of Jharkhand - e-kalyan	5	200000

b)International	Nil	Nil	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
INVENIO '19 Professional Body Orientation Programme	23/10/2019	250	Dr. Ranga Rajagopal, Director-Operation, CEO (Acenet Technologies India) Coimbatore
Skill Development and placement Training-Industry 4.0	11/10/2019	200	Mr. Immanuel Rup Kumar, Head-Student Recruitment and International Placements, Kings Cornerstone International College
Technical seminar on "Data Center Management and Disaster Recovery"	23/10/2019	200	Dr. Ranga Rajagopal, Director-Operation, CEO (Acenet Technologies India) Coimbatore
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2020	Australian Internship cum placement	Nil	298	Nil	183
2020	Profile Buiding Workshop	Nil	279	Nil	183
2020	Skill enhancement for entry to defence sector	Nil	230	Nil	88
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual

harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Accenture, Bangalore	673	235	TCS Ninja, Chennai	409	41
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	19	B.Tech.	Electrical and Electronics Engineering	Karunya Institute of Technology and Sciences, Coimbatore	M.Tech.
2019	6	B.Tech.	Food Processing and Engineering	Indian Institute of Plantation Management, Bangalore, Karnataka	PGDM-FPBM
Nil	4	BBA	Bachelor of Business Administration	ACHARIYA COLLEGE, Bangalore	MBA
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	4
CAT	6
GRE	1
Any Other	32
TOFEL	4
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
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Ball Badminton (Women)	National	11
Kabaddi (Men)	National	12
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	World University Games Napoli, Italy 2019 - Participation	National	1	1	UR15ME208	Aadarsh Ram
2020	Colosseum 2020 - Football (Men) Winners	National	1	1	URK17EC139	Allwin Pushbaraj
2020	Colosseum 2020 - Volleyball (Women) - Winners	National	1	1	URK18FP044	Nanthini N

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Karunya Institute of Technology and Sciences has various systems of student representation in academic and administrative bodies/committees as given below:

Academic Affairs: Class Representatives - From every class of 60 students, six students are selected to represent the respective class in Class Committee meetings to offer feedback and suggestions for achieving the expected outcome in all facets of the department. The meetings are conducted thrice every semester with the class representatives. The students share their ideas, interests, concerns regarding their classes, laboratories, faculty members, mentors and other welfare measures with the Heads of the Departments for necessary decisions and actions. The minutes of the class committee meetings are discussed in the faculty meetings to take appropriate corrective measures and ensure smooth functioning of the department. Matters pertaining to the University administration are presented by the Heads at the meeting with the Deans who represent the matter at the Executive Committee meeting chaired by the Vice-Chancellor. Other Representations: The student representatives are also inducted in Curriculum Development Cell (CDC), Board of Studies (BoS), Planning and Monitoring Board, Anti-Ragging Cell, Grievance Redressal Cell, SC/ST Cell and Internal Quality Assurance Cell. These students give feedback/suggestions on the quality and relevance of curriculum, learning practices, teaching methodology, examination evaluation, placement training and career counselling for higher studies, gender discrimination issues (if any)

and matters pertaining to infrastructure. Residences: KITS being a residential Institution, all the students of the university reside on campus. Staying away from home and living on the campus premises, creates a unique and exciting learning experience as it enables peer learning beyond working hours, promotes mutual bonding for healthy living and learning together, provides emotional support and a sense of camaraderie among fellow students thus making residential life extraordinary and remarkable. In KITS efforts have been taken to provide a wide range of facilities for every student as the campus is a home away from home. The University has nine residences for men and five for Women to comfortably accommodate 8000 students. Hostel Welfare and Grievance Redressal Committee: Two students from each floor of the residential halls are invited to represent the residents in the committee. The opinion of the students on the maintenance of infrastructure, amenities, upkeep of rooms, recreational facilities and other grievances are discussed and addressed in the best interest of the students. Mess Committee: KITS has students representing all the states of India and hence regional menu is provided according to their choice. Students interested in the functioning of mess and monitoring food services are nominated as representatives. Three mess committee meetings are conducted for each regional menu every semester. These representatives communicate the feedback obtained from fellow residents to the mess administration periodically to ensure quality in food and effectiveness in service. Sports and Cultural Activities: Student representatives are also nominated for Sports and Extracurricular activities to address issues pertaining to the norms for participation in sports and cultural activities and the required facilities.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Karunya Institute of Technology and Sciences has two registered alumni associations KIAA Karunya International Alumni Association of America KAAI Karunya Alumni Association of India The very first Karunya International Alumni Association was inaugurated in the Jesus Calls Office, Dallas USA on 25th April 2015 by Dr. Paul Dhinakaran Chancellor, Karunya University with a group of Alumnus. 30 Karunyans along with their families participated in this historic event. Executive members and Board of Directors for Karunya International Alumni Association were appointed during this meeting. The University has a dedicated Alumni Association to network with the alumni across decades. Alumni are represented in the Board of Studies and their expertise is utilized for department seminars, workshops, guest lectures, career counseling, placement training, placement, curriculum reformation, research and admission into foreign universities. Alumni Cell Activities ? Reunions: 9 Reunions were organized all around the world. ? Educational Programs: 7 Alumni Lectures were conducted by alumni • Academic Board: 40 alumni are actively involved in the Board of Studies. • Placements: 61 Placements were provided by alumni. • Consultancy: One alumnus was involved in offering consultancy project. Recruitment through Alumni Major Placements and Internship by Karunya Alumni S.No Department Alumni Company Placement 1 Civil Mr. VenkatVeerish Ray Contractors 29 2 Mechanical Mr.J.E.M William WonjinAutoparts 16 3 EEE Mr.Godfrey Samuel Nexential solutions pvt ltd 16 Total 61 Alumni Reunion: Alumni Gatherings and Reunion S.No Date Event 1 13-07-2019 Silver Jubilee Reunion Class of 1994 2 07-09-2019 Alumni Conclave 3 02-10-2019 Meet and Greet Mumbai 4 02-10-2019 Bangalore Chapter Meet 5 19-10-2019 Dallas Alumni Meet 6 01-12-2019 Meet and Greet Chennai 7 15-12-2019 Chennai Alumni Christmas Celebration 8 08-03-2020 Dallas Alumni Meet 9 13-06-2020 Karunya Alumni Global Conference Cloud meet Day - 1 10 20-06-2020 Karunya Alumni Global Conference Cloud meet Day - 2

5.4.2 – No. of registered Alumni:

16266

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

367500

5.4.4 – Meetings/activities organized by Alumni Association :

S.No Date Event 1 13-07-2019 Silver Jubilee Reunion Class of 1994 2 07-09-2019 Alumni Conclave 3 02-10-2019 Meet and Greet Mumbai 4 02-10-2019 Bangalore Chapter Meet 5 19-10-2019 Dallas Alumni Meet 6 01-12-2019 Meet and Greet Chennai 7 15-12-2019 Chennai Alumni Christmas Celebration 8 08-03-2020 Dallas Alumni Meet 9 13-06-2020 Karunya Alumni Global Conference Cloud meet Day - 1 10 20-06-2020 Karunya Alumni Global Conference Cloud meet Day - 2

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

As KITS grew in size in terms of students, staff strength, implementation of CBCS, academic administration, resource management and sharing, Decentralization was introduced. It ensures delegation of authority, responsibility, accountability among different levels of the organizational hierarchy. As part of Administrative Decentralisation, every School / Department shall present to the KITS Administrative Body a 5-year plan for their entity. Area of growth is identified and investment is made only in that area. On approval, the School / Departments moves forward to achieve the milestone set for them. Periodical reviews are conducted on key areas such as Teaching-Learning Process, Administration, Finance Management and Revenue Generation. Broad areas of review are: ? Faculty - strength, expertise, training and performance ? Student - strength for each course offered by the School or Department monitoring of students' performance ? Infrastructure - level of infrastructure provided for the course content, augmentation required ? Research amp Development - Publications, product development, placement, Industry - Institute Interaction, Consultancy and Research ? Funding - External funding and status of projects and ? Accreditation - Accreditation of courses and University with Government Bodies. The fruits of administrative decentralization are: ? Better communication and human relationships are promoted ? Clear demarcation of duties and boundaries ? Schools / Departments / Offices can be innovative and creative in their working style other Offices can also adopt the same style of functioning and Skillset of staff improved with enhanced administrative authority with responsibility.

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

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Teaching and Learning	Outcome-based education is in practice. The attainment of Course outcomes, program outcomes and Program-specific outcomes are being measured. Students feedback on teaching-learning is obtained, analysed and training

	programs are being organized by KCDC during the summer vacation as well as on a few Saturdays.
Examination and Evaluation	Question Paper Auditing, Answer paper scrutiny, 20 of the answer scripts are re-evaluated by the External Experts to ensure the quality of evaluation of the same by the faculty of KITS. Appropriate improvement measures are being taken in form of training or individual counseling outcome-based program-specific.
Curriculum Development	The stakeholders such as students, faculty, parents, alumni and entrepreneurs are obtained in the structured feedback procedure and analysed during the curriculum development cell meetings. The outcome of the CDC meeting is discussed in the Board of Studies Meeting for appropriate modifications to be done in the curriculum and syllabi.

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

E-governance area	Details
Student Admission and Support	Admission Portal showing the Expression of Interest (EoI) from the candidates seeking for admissions, Processing of the applications, Online approval of Admissions, Online payment of fee, Report generation, Online registration of Courses, faculty selection, attendance monitoring etc.
Finance and Accounts	Fee payment, Budget operations, online approvals, generation of reports as required by accreditation and Ranking agencies etc
Examination	Registration of Courses for the examination, Downloading of hall ticket, Publication of Results, Applying for Revelation etc

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. S.J. Vijay	Karunya - Israel Research Fellowship	Karunya Institute of Technology and Sciences	250000
2019	Dr. S.	Karunya -	Karunya	250000

	Vincent Sam Jebadurai	Israel Research Fellowship	Institute of Technology and Sciences	
2019	Dr.Sudha	SEM- Basic and Advanced analysis	NIT Tiruchirapalli	7000
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6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Orientat ion Programme on NAAC Parameters to enhance the Quality Parameters	Nil	23/01/2020	23/01/2020	331	Nil
2019	Orientat ion Program on NIRF 2020	Nil	22/07/2019	26/08/2019	25	9
2020	Nil	Office o rderliness in the Digital world	20/07/2020	20/07/2020	Nil	220
2020	Nil	Dynamic Report Pre paration using Excel	15/07/2020	16/07/2020	Nil	220
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Two days workshop on "3D Printing Technology Art of Project Proposal and Technical	30	06/12/2019	07/12/2019	2

Article/Journal Writing", held at Karunya Institute of Technology and Sciences, Coimbatore				
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
48	48	13	13

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Employee Provident Fund (EPF) Scheme, Pension Benefits Scheme, Gratuity Scheme, Accommodation, Health Insurance Scheme, Staff Benevolent Fund Scheme, Professional development Account	Employee Provident Fund (EPF) Scheme, Pension Benefits Scheme, Gratuity Scheme, Accommodation, Health Insurance Scheme, Staff Benevolent Fund Scheme	Dr.D.G.S Dhinakaran scholarship

6.4 – Financial Management and Resource Mobilization

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

KITS conducts both internal and external audits regularly each financial year. Our External Auditor is M/s. CV Ramaswamy Co, a firm of Chartered Accountants from Chennai, Tamil Nadu and it is leading Chartered Accountancy Firm rendering comprehensive professional services which includes Audit, Management Consultancy, Tax Consultancy, Accounting Services, man power management and Secretarial services etc., They are based in Chennai in the address is No:2 Vidvan Sundaram Street, Nungambakkam, It is a very leading audit firm in Chennai and they are our Statutory Auditor since 1986. KITS also used an External Internal audit firm M/s. A.R.Jagannathan Co, Chartered Accountants for the internal audit during the year 2019-20. This firm is from Coimbatore.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
No Data Entered/Not Applicable !!!		
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6.4.3 – Total corpus fund generated

213542802

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority

Academic	Yes	IITs, NITs and other Eminent Institutions	Yes	Department IQAC Coordinators
Administrative	Yes	Experts from Eminent Institutions and Industries	Yes	Internal Expert Committee

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

N.A.

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

1. Feedback on curriculum and overall functioning of the department 2. Feedback related to Vision, Mission, PEOs, Teaching and learning and Mentoring are collected periodically from parents during each academic year 3. Facilitate linkages with industries for placement

6.5.4 – Development programmes for support staff (at least three)

1. Staff Retreat for all to contemplate their purpose and motives, and work on one or more specific goals on 4th June 2019. 2. Training on Microsoft Office Suite 3. Technical Training

6.5.5 – Post Accreditation initiative(s) (mention at least three)

1. Student Satisfaction Survey 2. Faculty Competency Analysis 3. Monitoring Outcome-Based Education

6.5.6 – Internal Quality Assurance System Details

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

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Colloquium on Thrust areas (Health, Energy, Food Water)	20/06/2019	20/06/2019	21/06/2019	331
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male

Womens Day special	09/03/2020	09/03/2020	2500	4850
A Programme on self Care Self Reflection	28/02/2020	28/02/2020	300	Nil

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<p>Renewable Energy: The percentage of the Power requirement of the University met by the Renewable energy sources is about 5.95kW grid-tied solar power plant on the rooftop of the Administrative Building generates approximately 1,44,000 units leading to saving of Rs.11,20,000 per year. 27 Solar water heaters of a capacity of 3500 litres in Hostel buildings leading to a saving of Rs. 59,23,298 year. 240 numbers of LED Street lights on the campus, saving Rs. 3,40,893 per year. Conversion of existing lights into LED tube lights leads to saving Rs.13,36,800 per year.</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	Yes	2
Rest Rooms	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	27/07/2019	4	Swatch Bharath Activities in Mundanthurai Village	Awareness on hygiene	86
2019	1	1	21/09/2019	1	MHRD - Unnat Bharat Abhiyan (UBA) - Swatchaata Hi Sewa Campaign (Launched by Honble PM) - Campaign on Plastic Free	Created awareness on the use of plastics	536

					Village at Sadivayal 1		
2019	1	1	21/09/2019	1	Poshan Abhiyan Jan Andolan (Nutrition Public Campaign) Awarness Programme on Food and Nutrition to the Nallurpathy Villagers .	Created awareness on Food and Nutrition	536
2019	1	1	29/07/2019	1	Digital India - Seminar on Digital Banking System for High School Students of Nathegoundanputhur Govt. School in association with Axis Bank	Awarness on Digitization	85
2020	1	1	29/02/2020	1	Women Empowerment themed on Take action for equality - interactive session, competitions and cultural events	Gender discrimination issues	263

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

Title	Date of publication	Follow up(max 100 words)
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Students Handbook	09/07/2019	Human Values and Professional Ethics Code of Conduct are communicated through Students Hand Book which are followed up by the Mentors, HoDs, Deans, Director (Student Affairs) and the Pro-Vice Chancellor - Quality Standards
HR Policy for Staff	09/07/2019	The HR policy is updated and communicated to the staff members each academic year. The faculty and Staff members are being oriented in the Staff Orientation Programs Karunya Competency Development Centre (KCDC) which are followed up by the HoDs, Deans, Registrar, Pro Vice Chancellors and Vice Chancellor. The HR Committee coordinates these activities.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Staff Orientation Program	01/07/2019	03/07/2019	600
Staff Refresher Program	03/01/2020	03/01/2020	600

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

Herbal Garden is maintained by the students and faculty members of the department Swachh Bharat activity in and around the Campus conducted by NSS Introduced the concept of Paperless office, thereby supporting the Digital India Initiatives by the Central Government Communications through WhatsApp groups to the students, faculty and administrators. Development and screening the plant growth-promoting efficacy

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

<p>1. INVENTION, INNOVATION AND INCUBATION ORIENTED TEACHING LEARNING PROCESS: Karunya Institute of Technology and Sciences - Deemed-to-be-University has embarked on a mission to revise and revitalize its curriculum and syllabi with a focus on product and process development, entrepreneurship and critical problem-solving techniques. Programmes and courses that have global relevance and focus on creating a vibrant environment have been introduced that revolve around product development with social relevance. Choice Based Credit System has been one of the first steps in this direction. The Institute has developed technology driven and skill-oriented courses which are expected to</p>

revolutionize the socio-economic development of the country. The main thrust has been on Industry 4.0 with stress on both theoretical and application aspects of Data Analytics, IoT, Artificial Intelligence, Machine Learning and Cloud Computing. The methodology of teaching has been revisited giving importance to digital teaching and learning and virtual laboratory sessions. KITS has migrated from all the software-based lab sessions to virtual platform. A hybrid of digital and interactive sessions is practised. Voluntary, self-study and online courses are also encouraged. Coursera, edX and NPTEL platforms are made use of to obtain the required number of credits for their academic fulfilment. Theory classes with lab components are conducted in the laboratories to help in an on- the- spot demonstration. Courses which are socially relevant in the thrust areas of Karunya, namely, Water, Food, Health Care and Renewable Energy are included in the curriculum and students are taken to the rural areas to address various problems related to the livelihood of people in these focal areas. The students are encouraged to participate in Hackathons, competitions, seminars and workshops along with in-house add-on programmes to equip them with the art of product design and development. KITS has established Karunya Innovation and Design Studio which conducts workshops and training programmes which sow the seeds of innovation in the minds of students. The quality assessment component has been one of the techniques used to evaluate the case studies, concept papers, model preparation and mini-projects done by the students. Due weightage is also given for the papers, patents and products that emanate from the projects done by the students during the course or at the end of the final year of the programme. In line with the National Innovation and Startup Policy 2019 of MHRD, a policy has been drawn up to help the students and faculty members to become entrepreneurs and to initiate startups. Students are groomed and trained in ideation, prototype development, commercialization, pre-incubation, start-up registration, attracting funds and setting up a full-fledged firm. Karunya Innovation fund is created to support financially viable ventures. An Innovation Park has been envisioned to be set up on the campus.

2. ESTABLISHMENT OF TECHNOLOGY MISSIONS IN EMERGING AREAS OF SCIENCE AND TECHNOLOGY

Considering the importance of exposing the students and faculty to modern technologies and to come out with projects, papers and products in these areas, which are having societal importance, KITS identified 25 Technology Missions in which faculty and students involve with an aim to contribute to science and technology and to society. These Missions have an emphasis on modern technologies relevant to industry and development. Most of these Technology Missions are expected to address problems, relevant to the focal areas of societal importance identified by Karunya, namely, water, food, health care and renewable energy, with the application of modern tools available in science and technology. Of the 25 Technology Missions identified, six are in the area of Agriculture and Food Processing Engineering, such as, Smart Technology for Precision Farming, Technology Mission for Food Security, Indigenous and Herbal Medicine, Millets for Nutrition and Drone Technology for Agriculture. These Technology Missions are meant to address issues related to agriculture, food and nutrition security, which are highly relevant to the country. These Missions are driven by the Agriculture and Food Processing Engineering Departments of KITS. Two of the Technology Missions deal with Water, a thrust area of KITS, the Missions being Water Treatment and Desalination and Wetland Conservation. These Missions are initiated by the Water Institute of KITS. Four Technology Missions deal with the application of emerging tools in the area of water and agriculture, these tools being Small Satellites, Isotopes, Remote Sensing and GIS. These are initiated by the Agriculture, Aerospace, Chemistry and Civil Engineering Departments. A separate Technology Mission addresses the problems of the rural population, especially in the context of Sustainable Development Goals. Four Technology Missions deal exclusively with the Health Sciences, namely Vaccinology for Viral Diseases, Stem Cell Research, Nanotechnology for Health

Care and Medical Devices. These Missions are led by the Departments of Biotechnology and Biomedical Engineering. Health Care is a focal area of research of Karunya. Three Technology Missions of KITS deal with energy and manufacturing, such as Green Energy, Green and Sustainable Manufacturing and 3-D Printing and Additive Manufacturing. Two Missions deal with habitat, namely, Smart Intelligent Buildings and Smart City. These Missions are spearheaded by Civil, Mechanical and EEE Departments. The remaining Missions deal with modern tools and their application, such as Data Analytics and BlockChain, Cyber Security Knowledge, Machine Learning Technologies for Societal Problems, Smart Vehicle Mission and Robotics in Everyday Life. These Missions are initiated by Circuit Engineering and Robotics and Automation Departments. Each of the Missions has enrolled faculty and students and set targets for the coming two years. Papers are published in these areas, products developed and patents filed. The Mission mode functioning has created a new vigour among the faculty and students.

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

<https://www.karunya.edu/igac/reports>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

THRUST AREA OF RESEARCH AT KITS: HEALTH CARE The KITS has identified health care as one of its four thrust areas of societal importance and is focusing on academic, research, consultancy and extension activities in the area of health care. Apart from 20 patents filed and published and a few already granted in the health care sector, Karunya developed a dozen and half products in the context of Covid Pandemic and two of them have already been commercialized .

The undergraduate and graduate programmes in Biotechnology and Biomedical Engineering and Instrumentation Engineering have emphasis on health care. There are more than 60 scholars doing their Ph.D in health care and some of them are working in the areas of medical imaging and application of electronics and mechanical engineering principles in clinical engineering. In collaboration with Boston Children’s Hospital and Medical School of Harvard University, several hackathons were conducted and short-term grants provided to the students to develop medical devices. A few well-equipped laboratories dealing with health care are available in the Department of Biotechnology and Biomedical Engineering of KITS apart from the facilities available at the medical imaging, nanotechnology, microbiology, molecular biology and biochemistry laboratories. A nursing college has been recently initiated under the School of Health Sciences. Research is being carried out in collaboration with SEESHA - Karunya Community Hospital to develop instruments relevant to clinical studies. There is also an animal house attached to the Department of Biotechnology. Emerging out of research, about 400 papers have been published in Scopus indexed journals and around 20 patents filed and published in the area of health care. The faculty and students are given short-term grant to develop products, processes, designs and programmes. An Institute Ethics committee has been constituted considering the stipulations of ICMR to enhance the quality and standard of research in the health care sector. The KITS has signed MoUs with Technion, Ben-Gurion University, Bar-Ilan University, Hebrew University and Agricultural Research Organization of Israel to work together in the four thrust areas of Karunya. Karunya has started a School of Health Sciences and the programmes such as, Geriatric Care, Genetics and Microbiology, Medical Ethics, OT Management and Clinical Psychology have been initiated. A house for the aged and rehabilitation centre are already available in the campus, where students involve in the healing mission of Karunya. The patents

filed in the area of health care are being commercialized for the benefit of people.

Provide the weblink of the institution

<https://www.karunya.edu/igac/reports>

8.Future Plans of Actions for Next Academic Year

Future Plans of Action 1. Revision of Curriculum to incorporate the requirements of Industry 4.0 with emphasis on both theoretical and application aspects of Data Analytics, IoT, Artificial Intelligence and Machine Learning. 2. Establishment of Technology Missions in Emerging Areas of Science and Technology. KITS has identified 25 Technology Missions in water, food, healthcare and energy to translate the vision of the Institution into action. Faculty and students of all disciplines are actively engaged in research and other activities pertaining to these domains in order to contribute to the welfare of our society. 3. Interdisciplinary research, papers, patents, community activities and fieldwork will be enhanced. 4. Partners in each thrust area of research to be identified from India and abroad. Collaboration with Eminent International Universities through IAESTE Student Exchange Programs for industry/institute Internships and creating opportunities for faculty to visit International Universities for transdisciplinary research and publications. 5. Extending Industry training for faculty members during the summer vacation. 6. Separate tenure track and practice/clinical track faculty to be introduced. 7. Free access to all learning and research resources and promoting online education through the development of E-content in MOOC Platforms by the faculty members. 8. Identification of department level leaders for research, academics, consultancy, training, collaborations and digital marketing 9. Technology Transfer through Product development, filing of Patents and Commercialization of granted Patents. Development of safety products for Covid -19 and similar infections. 10. To process NBA Accreditations for all Engineering and Management Programs 11. To prepare for the NAAC II Cycle of Accreditation 12. To participate in NIRF 2021 and ARIIA 2021 Ranking.