Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**St. Peter's Institute of Higher Education and Research**
Name of the head of the Institution	**P. Dananjayan**
Designation	**Vice Chancellor**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**044-26558080**
Mobile no.	**9840024189**
Registered Email	**registrar@spiher.ac.in**
Alternate Email	**vc@spiher.ac.in**
Address	**Tonakela Camp Road, Avadi, Chennai 600054**
City/Town	**Chennai**
State/UT	**Tamil Nadu**
Pincode	**600054**

2. Institutional Status

University	**Deemed**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. R. Rani Hemamalini**
Phone no/Alternate Phone no.	**+919884475450**
Mobile no.	**7010039893**
Registered Email	**iqac@spiher.ac.in**
Alternate Email	**eeehod@spiher.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://spiher.ac.in/wp-content/uploads/2019/11/AQAR-2017-18.pdf
4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://spiher.ac.in/wp-content/uploads/2019/11/Academic-Calander-2018-19.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B**	**2.52**	**2015**	**16-Nov-2015**	**15-Nov-2020**

6. Date of Establishment of IQAC

27-Sep-2013

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
No Data Entered/Not Applicable!!!		

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
No Data Entered/Not Applicable!!!				
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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 :	**5**
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)

- IQAC enabled enhancement of students' outcome for employability and higher studies through training programmes for Placements and competitive exams like UPSC, TNPSC, Banking, Foreign languages (Japanese and French), and higher studies GATE.

- IQAC initiated to fully implement outcome based education and CBCS, and the same has been implemented in all the departments. Trained faculty in OBE, CBCS and teaching-learning methodology by conducting technical programmes by experts. Prepared guidelines for assessment and evaluation as per OBE. IQAC provided training to faculty in NAAC Revised Accreditation and Assessment Process. More technical programmes were conducted covering all the departments.

- MHRD Institution Innovation Council and Centre for Innovation were started for improving quality of research, publications and filing of patents. Twenty technical programmes were conducted to motivate students and faculty. Twenty two MoUs signed with industry for academic and research collaboration, training and internship. MoU signed with two universities in Thailand and Malaysia.

- IQAC enabled improvement of infrastructure including ICT enabled class rooms, digital library with 30 systems, and new research facilities such as • Cloud

computing and Big Data Lab • Constant temperature bath and SR method for crystal growth in Physics Lab. • IoT application and Robotics system learning Lab

• IQAC has also been assisting in improving the performance of the Institute for NIRF and Atal Innovation Ranking of the Institute.

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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
Collection of inputs for News Letter for the odd semester 2018	News letter released for the odd semester 21st December 2018
Coaching for NET/SLET exams for Faculty	Conducted on 25th November 2018 by Mr. M. Bala Murali
ISO Internal Audit II (Odd) 2018	13th & 14th December 2018
Presentation of students/faculty projects June 18	International Exhibition on Machine Tools organized by AIEMA. Chennai Trade Centre June 2125, 2018
1st Quarterly Meeting of IQAC-July 18	Meeting was conducted on 2nd July 2018
ISO Audit	26th & 27th July 2018
Awareness programme for students	Official Release of Website and Mobile App in collaboration with Green Foot Print on 15th October 2018 Ø Workshop under Value Education Titled "Eternal Peace" by Shri.Ragupathy, Prof. SKY Centre, Avadi on 24.08.2018 Ø Guest lecture under value education Titled "Health Awareness Program" for girls students and women faculty by Dr. Nazreen, Indigo Women Centre on 28.09.2018 and 13.10.2018 respectively
Muthamizh Vizha –Tamil Department October	Muthamizh Vizha was conducted on 16th October 2018
MOUs July 2018-June 2019	MOU with Indian Maritime Management and Research Institute (IMMRI) on 07.07.2018 Ø MOU with CADDCAMM Solutions (Mech) on 10.08.2018 Ø MOU with Education Matters on 12.08.2018 Ø MOU with Indian Institute for Knowledge and Excellence (IIKE) on 26.09.2018 Ø MOU signed with Taylor's University, Malaysia17.10.2018 Ø MOU with CDAC Gist PACE Authorized Training Centre (CDAC) on 29.10.2018 Ø MOU with Profolic Systems and Technologies Pvt.Ltd on 11.01.2019 Ø MOU with Labtech Innovations on 01.02.2019 Ø MOU with TRIL Into Park on 20.02.2019 Ø MOU with TECHNOCRAFT AUTOMATION on

	22.02.2019 Ø MOU with Tapstia Institute of Higher Education and Research (TIMELAC) on 22.02.2019 Ø MOU with Tamil Nadu Progressive Small and Tiny Industries Association (TAPSTIA) on 22.02.2019
Collection of Feedback forms from Students for the odd semester (Dec 2018)	Collected on 20th November 2018
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Board of Management	**20-Nov-2019**

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	**12-Apr-2019**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2019**
Date of Submission	**28-Feb-2019**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**Yes, the Institute has Management Information system.The constituent of Management information system are Planning and Development, Administration, Finance and accounts, Student admission and Support, Library management system, Examination system, Attendance Management system Learning management system,Academic and assessment system**

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

BE	EC	Electronics and Communication Engineering	21/08/2018
BE	EC	Electronics and Communication Engineering	12/03/2019
BE	CIVIL	Civil Engineering	20/08/2018
BE	CIVIL	Civil Engineering	11/03/2019
BE	BM	Biomedical Engineering	01/01/2018
BE	BM	Biomedical Engineering	12/03/2019
BE	ME	Mechanical Engineering	20/08/2018
BE	ME	Mechanical Engineering	15/03/2019
BE	CS	Computer Science and Engineering	21/08/2018
BE	CS	Computer Science and Engineering	12/03/2019
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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
BE	Electronics and Communication Engineering	01/08/2018	Programming for Problem Solving Using C and Python - 218PPT03	01/08/2018
BE	Electronics and Communication Engineering	12/03/2018	Analog and Digital Communication - 518ECT03	12/03/2018
BE	Civil Engineering	20/08/2018	Construction Materials - 318CET02	20/08/2018
BE	Civil Engineering	11/03/2019	Structural Health Monitoring - 818CET09	11/03/2019
BE	Biomedical Engineering	01/08/2018	Anatomy and Human Physiology - 318BMP02	01/08/2018
BE	Biomedical Engineering	12/03/2019	Foundation skills in Integrated Product Development -	12/03/2019

Programme/Course	Programme Specialization	Dates of Introduction		
			818BMT10	
BE	Mechanical Engineering	20/08/2018	Engineering Graphics& Design - 118EGT04	20/08/2018
BE	Mechanical Engineering	15/03/2019	Sustainable manufacturing - 818MET13	15/03/2019
BE	Computer Science Engineering	21/08/2018	Fundamentals of Computing and Communications - 218CST01	21/08/2018
BE	Electrical and Electronics Engineering	18/03/2019	Automated Testing - 718EET04	18/03/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Mobile Networks	01/08/2018
BE	Green Radio Communication Techniques	12/03/2019
BE	High Performance Communication Network	01/08/2018
BE	Internetworking Multimedia Communication	01/08/2018
BE	Communication Protocol	01/08/2018
BE	Information Coding Techniques	01/08/2018
BE	Satellite Communication	01/08/2018
BE	MIMO OFDM Technology	01/08/2018
BE	Advanced Antenna Design	12/03/2019
BE	RF System Design	12/03/2019
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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
BE	Electronics and Communication Engineering	23/03/2018
BE	Civil Engineering	23/03/2018
BE	Biomedical Engineering	23/03/2018
BE	Computer Science and Engineering	23/03/2018
BE	Electrical and	23/03/2018

	Electronics Engineering	
BE	Mechanical Engineering	23/03/2018
BTech	Information Technology	23/03/2018
Mtech	Information Technology	23/03/2018
ME	Advanced Manufacturing Process	23/03/2018
ME	Communication Systems	23/03/2018
ME	Structural Engineering	23/03/2018
ME	Computer Science and Engineering	23/03/2018
ME	Electrical and Electronics Engineering	23/03/2018
ME	Biomedical Engineering	23/03/2018
BArch	Architecture	31/07/2018
BSc	Mathematics	05/07/2018
BSc	Chemistry	05/07/2018
BSc	Computer Science	31/07/2018
BSc	Biotechnology	31/07/2018
BSc	Physics	31/07/2018
BCA	Computer Applications	31/07/2018
BBA	Business Administration	31/07/2018
BA	TAMIL	31/07/2018
BA	Economics	31/07/2018
BA	English Literature	31/07/2018
BA	Commerce	31/07/2018
MSc	Mathematics	31/07/2018
MSc	Chemsitry	31/07/2018
MSc	Computer Science	31/07/2018
MSc	Biotechnology	31/07/2018
MSc	Physics	31/07/2018
MBA	Business Administration	31/07/2018
MA	English Literature	31/07/2018

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
Personality development class	21/07/2018	15
Trainining pogramme in IOT and its Applications	10/10/2018	40
Training Programme in Antenna Design	12/04/2018	45
Trianing Programme in	05/07/2018	35

Importance of Electromagnetic Radiation safety		
Trianing Programme in Advanced Antenna Design and Application	08/08/2019	23
Training on TV repair Technician	02/02/2018	21
Training on Broadband Technician	02/02/2018	20
Trainining on Public Speaking and Communication Development	05/04/2018	30
Certificate Course on "Surveying, Plumbing and Electrical Works"	21/05/2018	18
Certificate course on "Modern Project Management" with IIPM.	29/08/2018	30
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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
BE	Internship on Structural Design/Civil Engineering	22
BE	Internship on Preparation of Building Plans/Civil Engineering	30
BE	Internship at Life Line Institute of Minimal Access/ Biomedical Engineering	17
BE	Intenship at Simenes Health care Pvt.ltd, Chennai / Biomedical Engineering	4
BE	Internship in Steel and Industrial Forging Ltd. /Mechanical Engineering	33
BE	Training on IOT/Electronics and Communication Engineering	20
BE	Internship in BSNL/Electronics and Communication Engineering	12
BE	Internship on 5G technologies/Electronics and Communication Engineering	20

BE	Training on Quality Control/Civil Engineering	31
BE	Internship on Billing & Estimation/Civil Engineering	21
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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
FEEDBACK SYSTEM: Feedback is obtained from all the stake holders such as students, alumni, faculty, Industry and parents for each semester using Google forms. Questionnaires have been designed using the NAAC format which are given to all the stake holders at the end of the semester. The feedback is scrutinized by the head of the department and the IQAC which has enabled in the overall improvement of the development of curriculum resulting in changes of curriculum and syllabus, teaching and learning evaluation, resource mobilization for research, Innovation eco system and the Internal quality assurance system. St.Peters Institute of Higher Education and Research thoroughly reviews the curriculum for every academic year. The Institute maintains an IQAC as a quality consistence and quality enhancement measure. In supervision of IQAC, various departments and committees like Career Guidance, Anti-Ragging and Sexual Harassment Committee, etc reinforce the curriculum by incorporating updated information and diurnal social issues. Institute conducts Bi-Annual Alumni Meet, in which suggestions and feedback is received from Alumni students. The provided feedback data is presented to the Academic Council Meeting for necessary implementation in curriculum. Alumni surveys are conducted during alumni interaction at the alumni association meetings held twice in a year. Whenever any alumni visits the Institute, feedback is taken. . Improvements made in quality of academic, research and other systems including introduction of new courses and training of faculty in emerging technologies like IOT, Robotics, Data analytics, Artificial Intelligence, Deep learning and 5G Technologies. Teaching learning process is improved using ICT Tools, workshops in OBE, continuous internal assessment as per OBE, research methodology, quality metrics for publications, etc.

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
BE	CE	60	11	5
BE	EE	60	6	1

BTech	IT	60	7	2
BE	CSE	60	17	10
BE	MECH	120	64	47
BE	BME	60	12	5
BE	CIVIL	60	14	6
BArch	ARCH	20	12	8
ME	SE	24	11	8

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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
2018	2304	309	151	39	39

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	Numberof smart classrooms	E-resources and techniques used
190	190	49	92	15	37

[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)

Yes, Students mentoring system is available in the Institute. Mentoring is regularly given by student's counselor and class advisors and it is recorded in the profile book of the student. On the advice of counselors, if needed, medical officer may also provide necessary counseling. Academic mentoring is provided to students apart from class room interaction. They are given extra coaching by providing tutorials and assignments. Special classes for needy students are arranged. Every time after a cycle test is over, the counselor counsels the students about their performance in the test. Re-tests, Assignments and remedial classes will be conducted. Whenever there is a need to counsel other problems like personal family situations, less attendance and low marks counseling is given by counselors. The admission cell helps the students who have joined the Institute with the necessary support such as getting educational loans from banks and from various charitable trusts. Fees reduction is provided to rural background students. The Institute also gives fee concession for the meritorious students. The students are provided training to participate and present papers in various academic forums. Students undergo training in personality development, communication and soft skills which helps them to develop their self confidence and to face their placement drives. Apart from that, value added courses help them to compete in all aspects of life.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2877	190	1:15

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
190	190	0	84	62

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
2018	Mr.P.Sampath	Assistant Professor	Bharat Ratna Indira Gandhi Goldmedal Award from GEPRA Bangalor
2018	Dr.C.Vijai	Assistant Professor	Lifetime Membership on Global Association for Humanities and Social Science Research, 2018.
2018	Dr.C.Vijai	Assistant Professor	Senior Member on Asia Society of Researchers, 2018
2019	Dr.R.Rani Hemamalini	Professor	Chartered Innovation
2018	Dr Sayeedha Sulthana	Professor	Golden Guru Award, GRT Institute of Engineering and Technology,Tiruttani
2018	Dr R Gayathri	Professor	Golden Guru Award, GRT Institute of Engineering and Technology,Tiruttani
2018	Dr R Latha	Professor	Golden Guru Award, GRT Institute of Engineering and Technology,Tiruttani
2018	Dr.R.RaniHemamalini	Professor	Fellow IEI
2018	R.Subashini	Assistant Professor	Excellence Teaching in Higher Eduation in the Department of Computer ScienceAIRFA International Women Researchers Connect and Awards 2018
2018	Dr R Latha	Professor	"Best Women Faculy Award" from DK Internatinal Research Foundation in Permbalur, Trichy(Dt.)

2018	Dr.N.Srinivasan	Professor	Rula International Award, Ijrula, International Journal of Research under literal Access, 2018
2018	Dr.N.Srinivasan	Professor	Member of Glacier Journal of Scientific Research, Adarsh Vidya SaraswatiRashtriyaPuraskar,Global Management Council, 2018
2018	Dr.N.Srinivasan	Professor	Best Teacher Award, Adarsh Vidya Saraswati Rashtriya Puraskar,Global Management Council, 2018
2018	Dr.N.Srinivasan	Professor	Membership in World Research Council(WRC01IND105), World Research Council, 2018
2018	Dr. T. Chinnadurai	Assistant Professor	ICSSR ShortTime Fellowship for PhD research
2018	Dr Sayeedha Sulthana	Professor	Life Time Achievement Award, Innovative Research Developers and Publishers,Chennai
2018	Dr. L.Mahesh Kumar	Registrar	TIISLA Dr. Abdul Kalam Award for Leadership by IEITVLC
2018	Dr.K.Kantharaj	Professor	Valar Tamil Maamani was awarded to Dr.K.Kantharaj by His Excellency Thiru.Vyaapuri President of Republic of Mauritius
2018	G.GnancySubha	Assistant Professor	Best Innovative Student project award given by AIIMA at the International Exhibition 2018
2018	Dr.G.P.Ramesh	Professor	Committee member in IE(I) Thiruvallur local center

2018	Dr.C.Vijai	Assistant Professor	Membership on International Association of Educators and Researchers,2018
2018	Dr.C.Vijai	Assistant Professor	Lifetime Membership on International Society for Research and Development, 2018
2018	Dr.C.Vijai	Assistant Professor	Lifetime Membership on Social Science and Humanities Research Association, 2018

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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
BE	EC	APR/MAY/ 2019	21/05/2019	03/06/2019
BE	EE	APR/MAY/ 2019	21/05/2019	03/06/2019
BE	CS	APR/MAY/ 2019	21/05/2019	03/06/2019
BE	BM	APR/MAY/ 2019	10/12/2018	03/06/2019
BE	CE	APR/MAY/ 2019	21/05/2019	03/06/2019
BE	EE	OV/DEC/2018	10/12/2018	22/12/2018
BE	CS	OV/DEC/2018	10/12/2018	22/12/2018
BE	BM	OV/DEC/2018	10/12/2018	22/12/2018
BE	CE	OV/DEC/2018	10/12/2018	22/12/2018
BE	EC	OV/DEC/2018	10/12/2018	22/12/2018

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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
331	2682	5.6

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)

http://spiher.ac.in/curriculum-and-syllabus/

2.6.2 – Pass percentage of students

Programme	Programme	Programme	Number of	Number of	Pass Percentage

Code	Name	Specialization	students appeared in the final year examination	students passed in final year examination	
COMMERCERCE	BCom		25	20	80
BCA	BCA		16	13	81
ARCH	BArch		24	21	87
IT	BTech		11	11	100
MECH	BE		168	162	96
ECE	BE		62	37	59
EEE	BE		40	28	70
CSE	BE		43	22	51
CIVIL	BE		94	74	78
BME	BE		7	6	85
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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)

http://spiher.ac.in/wp-content/uploads/2020/01/SSS.pdf

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. T. Chinnathurai	ICSSR-Short time fellowship for PhD	16/10/2018	ICSSR
National	Dr. K. Abirami	UGC – Dr. D.S. Kothari Postdoctoral Fellowship Award	25/09/2018	UGC
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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
Vanithashree R	365	ST. PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH
Kavitha M	365	ST. PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH
Karthika V	365	ST. PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Gowri R	365	**ST. PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH**
Sivapriya S	365	**ST. PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH**
Mathanavalli S	365	**ST. PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH**
Sahana V	365	**ST. PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH**
Blessy Angelin D	365	**ST. PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH**
Pavithra R	365	**ST. PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH**
Vanishree R	365	**ST. PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH**
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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	**1080**	**DSTSERB**	**29.74**	**20**
Students Research Projects (Other than compulsory by the University)	**180**	**TNSCST**	**0.15**	**0.15**
Any Other (Specify)	**365**	**AICTE**	**22.23**	**6.23**
Any Other (Specify)	**36**	**EDII**	**3**	**3**
Any Other (Specify)	**75**	**EDII**	**5.7**	**5.7**
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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
Workshop on "Green Industry, Intelligence Innovation (G13)-Patent Filing Procedures with	**IQAC**	**04/04/2018**

Hands on Training"		
Revised NAAC framework and OBE	IQAC	08/02/2019
Revised NAAC framework and OBE	IQAC	10/02/2019
Calibration and maintenance of instruments	EEE	09/05/2019
Seminar on Intellectual Property Rights	IQAC	28/08/2019
Seminar on IPR	IQAC	10/01/2019
Industry Interface Program entitled "Medical Imaging Modalities – Current and Future Technologies in Healthcare"	BME	17/12/2018
Industry Interface Program entitled "Medical Imaging Modalities – Current and Future Technologies in Healthcare"	BME	22/12/2018
Lecture on "IPR and its management – Patents, Copy rights, Trade mark and Industrial design" by Mr.M. Ram Jawahar - Assistant Controller of Patents Designs Patent	IQAC	01/09/2018
Patent Awareness Programme Mr.PremCharles,Director, Allinov RD Resource Person	IQAC	11/08/2018
Seminar on "Real time projects in Biomedical Instrumentation"	BME	23/07/2018
Workshop on "Industrial Automation '	EEE	19/07/2018
Awareness Programme on Competitive Examination by IIKE	IQAC	27/07/2018
Soft skills , software skills and Technical skills to face Banking procedures	MANAGEMENT STUDIES	03/08/2018
Guest Lecture on "PLC, SCADA and DCS"	EEE	03/08/2018
Solar Energy Applications	EEE	20/08/2018
Who is an Entrepreneur	EEE	20/08/2018

Charms of being an Entrepreneur – Experience sharing with local successful Entrepreneur		
Schemes of Assistance for MSMEs: NSIC, SIDBI, DIC and Other Support Agencies	TBI-MSME	23/08/2018
Workshop on "IPR and its management – Patents, Copy rights, Trade mark and Industrial design"	IQAC	01/09/2018
FDP on Mobile APP development	CSC	26/10/2018
FDP on Mobile APP development	CSC	28/10/2018
FDP on Cloud Computing	CSC	06/09/2018
FDP on Cloud Computing	CSC	09/09/2018
FDP On Cognitive Sciences	S H	30/08/2018
FDP On Cognitive Sciences	S H	31/08/2018
Surveying and Documentation for startups	IQAC	09/08/2018
Workshop on Building Construction Softwares	ARCHITECTURE	15/10/2018
Workshop on Building Construction Softwares	ARCHITECTURE	16/10/2018
Workshop on Nine Square Matrix - a Conceptual Development process	MATHEMATICS	15/11/2018
Workshop on Role of IGBC in Green Awareness	ARCHITECTURE	29/01/2019
Workshop on Architecture towards Green Future	ARCHITECTURE	07/03/2019
Workshop on Basic concept of Sustainable Urban Planning	ARCHITECTURE	07/03/2019
National workshop on Antenna design and applications	ECE	04/10/2018
Hands on : IOT technologies	ECE	10/12/2018
Pythan pandas and data analysis	EEE	13/12/2018
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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
Best Researcher	Dr. P. Vasantha-	Indian	30/06/2019	Researcher

Award	Srinivasan	Spectrophysics Association			
Best Researcher Award	Dr.P.Periyasamy	Indian Spectrophysics Association	30/06/2019	Researcher	
Best Student Award-TISLA	M.Vicky	IEI Tiruvallore Local Centre	21/06/2018	Student	
Best Paper Award	Bharathi	SRM Institute of Scince and Technology	20/08/2018	Student	
Best Innovative Project	Bharathi,Carolyn and Keren	SPIHER	21/02/2019	Student	
Best Project Prize for Gluco-L	G.Gnancy Subha	AIEMA, Chennai	28/11/2018	Student	
Chartered innovation	Dr.R.Rani Hemamalini	The Institution of Engineers India	08/03/2019	Faculty	
Best Paper Award	Ms. V. Sulochana	KCG College of Technology, Chennai	28/11/2018	Researcher	
Most Promising Educators in Higher Education Across India	Dr.C.Vijai	The Academic Council of uLektz	13/03/2019	Faculty	
A Novel Device for Rehabilitation of Patients with severe Motor Disorders	K.Vishnupriya, Kappala Pranai Raj, B.Poorvitha	SPIHER	26/09/2018	Student	

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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
TBI	Mr. M. S. Siva Prasanth	M/s Ernosys Technolgoies , Chennai	Android Application	App Development	20/08/2018
TBI	Mr. Richard Selvaraj	Tech4Lyf	Project Development	Product Development	03/09/2018
TBI	Mr.S.Gowtham Raj	Sreekaeshan packaging	Project Development	Product Development	14/09/2018
TBI	Mr. Sagar Pradhan	Apify Media Pvt. Ltd	Web publishing	App Development	14/10/2018
TBI	R. L. Jega Aravind Babu	Vchat	Android application	App Development	19/10/2018

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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
Electronics and Communication Engineering	17
Electrical and Electronics Engineering	17
Computer Science and Engineering	12
Civil Engineering	2
Physics	3
Mechanical Engineering	7
Management Studies	1
Information Technology	4

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	Bachelor of Architecture	2	0.1
International	Bachelor of Commerce	28	0.72
International	Bachelor of Business Administration	11	0.33
International	Bio-Medical	14	0.4
International	Biotechnology	4	0.1
International	Chemistry	7	0.1
International	Mechanical Engineering	31	0.49
International	Electrical and Electronics Engineering	14	0.39
International	Electronics and Communication Engineering	36	0.8
International	Computer Science and Engineering	17	0.5
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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
Master of Business Administration	2
Computer Science and Application	3
Electrical and Electronics Engineering	4
Computer Science and Engineering	4
Mechanical Engineering	5

Information Technology	3
Electronics and Communication Engineering	4
Civil Engineering	3
Bachelor of Architecture	4
Physics	2

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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
ARTIFICIAL BONE IMPLANT	Published	316203	17/07/2019
REINFORCED COMPOSITE MATERIAL	Published	302538	29/10/2018
REINFORCED COMPOSITE MATERIALS FOR AUTOMOBILE ACCESSORIES	Published	201941004256	15/02/2019
HYBRID REINFORCED COMPOSITE MATERIAL FOR PROSTHESIS AND BONE GRAFTING SUBSTITUTES	Filed	201741026463	12/10/2018
INFLUENCE OF RICE HUSK ASH ON THE HARDEDNED PROPERTIES OF ENGINEERED CEMENTITIOUS COMPOSITES	Published	201841046912	01/02/2019
LORAWAN BASED ROOT KEY UPDATE SCHEME	Published	201941017987	10/05/2019
IDCC-DEVICE:INTELLIGENT DETECT AND CONTROL CYBERCRIME DEVICE	Published	201941020775	07/06/2019
MULTIBAND RECONFIGURABLE ANTENNA IN WI-MAX FREQUENCY FOR SOIL QUALITY SENSING APPLICATIONS	Published	201841026640	17/07/2018
RZF ANTENNA FOR ECG MONITORING USING IOT	Published	201841026631	17/07/2018
DESIGN OF HT PANEL AUTOMATION FOR QUICK CHANGE OVER WITH HMI	Published	201941008412	05/04/2019

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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
Swift Heavy Ion Irradiation Effects on Structural, Optical and Electrical Properties of Potassium Pentaborate (KB5) Single Crystals	S.Stella Mary	Transactions on Electrical and Electronic Materials	2019	15	St. Peters Institute of Higher Education and Research	1
Botanical essential oils and uses as mosquitocides and repellents against dengue	Chellappandian M, Vasantha-Srinivasan P, Senthil-Nathan S	Environment International	2018	157	St. Peters Institute of Higher Education and Research	17
A comparative study on surface strengthening characterisation and residual stresses of dental alloys using laser shock peening	Gurusami, K., Shanmuga Sundaram, K., Chandramohan, D., Vasantha Srinivasan, P., Sathish, T.	International Journal of Ambient Energy	2019	21	St. Peters Institute of Higher Education and Research	19
Automated Third Party Auditing/Monitoring Tool for Secured Data Transaction with	Prasana. E	International Journal of Business Intelligence and Data Mining,	2018	0	St. Peters Institute of Higher Education and Research	2

Monitoring Cloud Data						
A Novel Approach to Rectify the Challenges in cloud Environment	Balaji.E	International Joural of Business Intelligence and Data Mining,	2018	0	St. Peters Institute of Higher Education and Research St. Peters Institute of Higher Education and Research	2
Robust and brittle secured video for IOT	Ramesh, G.P	International Journal of Engineering Technology	2018	15	St. Peters Institute of Higher Education and Research	5
Experimental investigation of mechanical properties of GFRP reinforced with coir and flax	D.Chandramohan	International Journal of Mechanical Engineering and Technology	2018	9	St. Peters Institute of Higher Education and Research	20
Modelling of cost based optimization system E-O-L disassembly in reverse logistics	Periyasamy, P.,	International Journal of Mechanical and Production Engineering Research and Development	2019	9	St. Peters Institute of Higher Education and Research	21
Teaching methods and methodologies used in laboratories	D.Chandramohan	International Journal of Recent Technology and Engineering	2019	0	St. Peters Institute of Higher Education and Research St. Peters Institute of Higher Education and Research	22
Mechanical, Moisture Absorption, and Abrasion	D.Chandramohan	Journal of Bio- and Tribo-Corrosion	2019	10	St. Peters Institute of Higher Education and	17

Resistance Properties of Bamboo-Jute-Glass Fiber Composites					Research	

[View File](#)

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
Experimental and theoretical analyzes on structural and spectroscopic properties of monomer and dimeric form of (S)-Piperidine-2-Carboxylic acid: An attempt on medicinal plant	S Selvaraj, P Rajkumar, M Kesavan, S Gunasekaran, S Kumaresan	Vibrational Spectroscopy	2019	4	4	St. Peters Institute of Higher Education and Research
Vibrational (FT-IR and FT-Raman), electronic (UV-Vis), NMR (1H and 13C) spectra and molecular docking analyses of anticancer molecule 4-hydroxy-3-methoxycinnamaldehyde	K Thirunavukkarasu, P Rajkumar, S Selvaraj, R Suganya, M Kesavan, S Gunasekaran, S Kumaresan	Journal of Molecular Structure	2018	11	11	St. Peters Institute of Higher Education and Research
Experimental and theoretical i	S Selvaraj, P	Journal of Molecular Structure	2018	13	7	St. Peters Institute of Higher

nvestigati ons on spe ctroscopic properties of tropica mide	Rajkumar, M Kesavan, S Gunaseka ran, S Kumaresan					Education and Research
Vibrationa l and electronic spectral analysis of thymol an isomer of carvacrol isolated from Trach yspermum ammi seed: A combined experiment al and the oretical study	P Rajkumar, S Selvaraj, R Suganya, D Velmurug an, S Guna sekaran, S Kumaresan	Chemical Data Colle ctions	2018	16	8	St. Peters Institute of Higher Education and Research
Invetigati on On The Mechanical Behavior Of Areca Sheath Fibers/ Jute Fibers/ Glass Fibr icsreinfor ced Hybrid Composite For Lightw eight Appl ications	S. Jothibasu, S. Mohanam urugan, R. Vijay, D. Lenin Sing aravelu, A. Vinod, M.R. Sanjay	Journal of Industrial Textiles	2018	14	14	St. Peters Institute of Higher Education and Research
Mechanical , Moisture Absorption , and Abrasion Resistance Properties of Bamboo- Jute-Glass Fiber Composites	D.Chandram ohan	Journal of Bio- and T ribo- Corrosion	2019	10	17	St. Peters Institute of Higher Education and Research
Botanical essential oils and uses as mo squitocide	Chellappan dian M, Va santha-Sri nivasan P, Senthil-	Environmen t Internat ional	2018	17	17	St. Peters Institute of Higher Education and

s and repellents against dengue	Nathan S					Research
A comparative study on surface strengthening characterisation and residual stresses of dental alloys using laser shock peening	Gurusami, K., Shanmuga Sundaram, K., Chandramohan, D., Vasantha Srinivasan, P., Sathish, T.	International Journal of Ambient Energy	2019	19	16	St. Peters Institute of Higher Education and Research
Robust and brittle secured video for IOT	Ramesh, G.P	International Journal of Engineering Technology	2018	5	4	St. Peters Institute of Higher Education and Research
Modelling	Periyasamy, P.,	International Journal of Mechanical and Production Engineering Research and Development	2019	21	20	St. Peters Institute of Higher Education and Research

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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	13	15	52	36
Presented papers	113	5	10	50
Resource persons	10	5	25	20

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Dr. L. Maheshkumar, Prof./Mech	Testing, Drilling, Grinding	Rapid Proto Typing, Personal Quality	35000

		Systems, Bangalore	
Dr. S. Gunasekaran, Dean (R D), SPIHER	FTIR-ATR, Ultraviolet visible spectrometer	Industries and Research Scholar	50000
Dr. S. Gunasekaran, Dean (R D), SPIHER	FTIR-ATR, Ultraviolet visible spectrometer	Industries and Research Scholar	76280
Dr. S. Gunasekaran, Dean (R D), SPIHER, Prof./Physics	Revenue generated throug workshop "Hands on training programme"" conducted by SAIF, SPIHER.	SAIF	19453
Dr. S. Pushpa, Prof./CSE	Medical Image Processing	Meditech Info Systems	50000
Dr.B.Shanthini,Prof / IT	Advocate Journal	Saba and Associates , 100 Feet Road,Vad apalani,Chennai	25000
Dr.G.P.Ramesh, Prof./ECE	Smart Gaming tooth brush system for dental hygiene improvement with audio gaming Uiand brushing alarm indicator	Vee Eee Technologies solution pvt. Ltd	100000
Dr.G.P.Ramesh, Prof./ECE	PIR Based Energy saver for highway Road using IOT	Chipthing Lab	201000
Dr.G.P.Ramesh, Prof./ECE	Gyro stabilized smart handle for people with Hand Tremor that helps them to eat food without spilling and lift everyday objects and Utensils comfortably	Chipthing Labs	100000
Dr.G.P.Ramesh, Prof./ECE	Internet connected child monitoring system for the enhancement of the child safety with live MJPEG video streaming,sound and motion detection and Lullaby Playback	Signals and Solutions	10500

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

Name of the Consultan(s)	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees

department				
Dr.R.RaniHemama lini, Prof and Head/EEE	Khaizen robotics programme	LEMA Labs	125000	48
Dr.R.RaniHemama lini, Prof and Head/EEE	Automotive Electronics and Electric vehicle Design	Experts Hub	60000	50
Dr.B.Shanthini, Prof/IT	Demo and Training on Advocate Journal	Saba and Associates , 100 Feet Road,V adapalani,Chenn ai	10000	12
Dr.V.B.M.Sayana , Dr.P.Asha, Mr.P.Sampath, CIVIL	Design of Steel Structures	Kayathry Consultant	10000	20
Dr.V.B.M.Sayana , Dr.P.Asha, Mr.P.Babu Kamaraj, CIVIL	Testing of building materials	Buil Tech Constructions	5000	10
Dr.G.P.Ramesh, ECE	Hands on Training on VLSI Design	Vee Eee Technologies	10000	30
Ms.T.Anne Ramya, AP/ECE	Training on IOT	Vee Eee Technologies	5000	20
Ms.R.Gomathi, AP/ECE	Training on Embedded and Real Time Applications	Signals and Solutions	10000	20
Ms.R.Nirmala, AP/ECE	Hands on Training on PCB Design	Vee Eee Technologies	5000	20
Dr.G.P.Ramesh, Prof./ECE	Training on Robotics	Signals and Solutions	10000	30
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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
Womens Awareness Programme	SPIHER	30	236
Career Guidance Programme "How to gain without pain?"	Mr.Vijay Anand, Asso. Prof., Chennai National College of Arts science	12	320
Women Awareness	SPIHER	15	225

Programme Under Caption Penn Nalam			
Voters Awareness Campaign	Chennai Police officers, Army	10	180
Health Hygiene	India Health Link, IHL, Chennai	20	70
Workshop on Grooming and self Confidence	SPIHER	15	45
SWACHH BHARAT	NSS-SPIHER	40	65
Solar PV Design	SPIHER-EEE	16	40
UPS AND INVERTER	SPIHER-EEE	12	30
Calibration of Instruments	SPIHER-EEE	32	27
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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
NSS- Konambadu Village Adoption	Best Social Service of an Institution	Konambadu - Village president, TamilNadu, India	30
NSS- Narayanapuram Village Adoption	Best Social Service of an Institution	Narayanapuram - Village president, TamilNadu, India	30
NSS- Thirumanam Village Adoption	Best Social Service of an Institution	Thirumanam - Village officer, TamilNadu, India	30
NSS- Karunakaracheri Village Adoption	Best Social Service of an Institution	Karunakaracheri - Village officer, TamilNadu, India	30
NSS- Sorancheri Village Adoption	Best Social Service of an Institution	Sorancheri - Village officer, TamilNadu, India	30
NSS- Paarivakkam Village Adoption	Best Social Service of an Institution	Paarivakkam - Village officer, TamilNadu, India	30
NSS- Banaveduthotam Village Adoption	Best Social Service of an Institution	Banaveduthotam - Village officer, TamilNadu, India	30
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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 activites	Number of students participated in such activites
NSS	St. Peters Institute of	Concept Development for	35	160

		Higher Education and Research	Human Excellence		
NSS	St. Peters Institute of Higher Education and Research	Yoga Awareness Programme	45	180	
NSS	St. Peters Institute of Higher Education and Research	Eye Camp	35	200	
NSS	St. Peters Institute of Higher Education and Research	International Yoga Day	20	125	
NSS	St. Peters Institute of Higher Education and Research	CPR(Cardio Pulmonary Resuscitation training	30	180	
NSS	St. Peters Institute of Higher Education and Research	Clean India Campaign (Swachh Bharat)	12	128	
NSS	St. Peters Institute of Higher Education and Research	Tree Plantation	30	142	
NSS	St. Peters Institute of Higher Education and Research	The Official Launch of Website and Mobile App	20	150	
NSS	St. Peters Institute of Higher Education and Research	Lecture on Unnat Bharat Abhiyan	12	148	
NSS	St. Peters Institute of Higher Education and Research	Awareness Programme on Disaster Management	25	180	
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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

Research Project	Dr. P. Vasantha-Srinivasan	DST-SERB	1095
Research Project	Dr.Sayeeda Sultana	TNSCST	180
Research Project	Dr.Sayeeda Sultana	TNSCST	180
Outreach Programme	Dr.P. Periyasamy and Dr.S. Pushpa	MHRD	365
Students Internship	Robert samraj	St. Peters Institute of Higher Education and Research	30
Students Internship	Gola Sugnyan	St. Peters Institute of Higher Education and Research	30
Training Internship	P.Deepan Balaji, B.Hemavathi, R.Mohammed Muzaffar, S. Salonia Jenifer, S. Saranya, Vaishali Velu, S.Hari Prasad	St. Peters Institute of Higher Education and Research	30
Students Internship	P.Deepan Balaji, B.Hemavathi, R.Mohammed Muzaffar, S. Salonia Jenifer, S. Saranya, Vaishali Velu, S.Hari Prasad	St. Peters Institute of Higher Education and Research	30
Students Internship	D.Christopher, S.Kavitha, K.Mahesh, S.Sri Priya, A.Syed Ibrahim, B.Vijay Kumar, S.Jagadeesh, P.Fahad, Akhil Sunderash	St. Peters Institute of Higher Education and Research	30
Staff Training	Ms.T.Anne Ramya, Ms.R.Gomathi	St. Peters Institute of Higher Education and Research	4
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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
Training	Industry Interface	Siemens Healthcare	13/03/2018	13/03/2018	Students

		Program	Pvt Ltd., Chennai			
Training	Hospital Training	Siva ENT Hospital, Chennai	21/02/2018	21/02/2018	Students
Training	Hospital Training	Lifeline Instituite of Minimal Access Keyhole Surgery	24/09/2018	24/09/2018	Students
Training Internship	Industry Interface Program	SIEMENS Healthcare Private Ltd	17/12/2018	22/12/2018	Students
Certificate Courses	Memorandum of Understanding	C-DAC Gist PACE Authorized Training Centre (C-DAC)	29/10/2018	29/10/2018	Students
Internship	Internship	DLK	06/06/2019	22/07/2019	Students
Internship	Internship	APS GMBH European Center	08/09/2019	16/09/2019	Students
Internship	Internship	U.N.I.Q Caree Development	01/06/2019	30/06/2019	Students
Industrial Visit, Student Project Work	Memorandum of Understanding	TRIL Infotech	06/03/2019	31/12/2019	Students
Industrial Visit, Student Project Work	Memorandum of Understanding	Kayathry Consultants	21/03/2019	21/03/2019	Students

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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
Siemens Healthcare Private Limited	06/06/2018	Expert Training and Internship	25
IBM India Pvt. Ltd. For FDP	21/06/2018	Faculty development program	30
Indian Maritime Management and Research Institute (IMMRI)	07/07/2018	Academics	35
Cambridge Assessment on	21/06/2018	Communication skills	30

CADD/CAMM Solutions	10/08/2018	Training	25
Education Matters	12/08/2018	Higher Education	25
International Institute of Project Management.	20/08/2018	Certificate course	40
Redhat India Private Ltd	14/09/2018	Certificate course	25
Indian Institute for Knowledge and Excellence (IIKE)	26/09/2018	Coaching for competitive exams	60
C-DAC Gist PACE Authorized Training Centre (C-DAC)	29/10/2018	Training and Certificate Course	50

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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
67.5	54.5

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Classrooms with LCD facilities	Existing
Video Centre	Newly Added
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Existing

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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	5.1	2000

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total

Text Books	67380	13911528	780	303327	68160	14214855
Reference Books	706	1099658	0	0	706	1099658
Journals	72	136085	0	136539	72	272624
e-Journals	692	1065284	1200	1021746	1892	2087030
Digital Database	10966	13570	0	13570	10966	27140
CD & Video	2553	0	0	0	2553	0
Library Automation	1	80000	0	11800	1	91800
Others(specify)	3	21500	0	21500	3	43000

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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
P.Kanimozhi	Bamboo - Architecture and construction	PPT	19/03/2019
Dr.G.P.Ramesh	Electronic devices and Circuit Theorems	PPT	15/08/2018
Dr.S.Puspha	Data Analytics	PDF/PPT	19/02/2018
Dr.R.Ranihemamalini	DC Machines	PPT	19/07/2018
Dr.K.Gurusami	Robotics	PPT	18/07/2018
Dr.R.Latha	Research Methodologies	PPT	01/08/2018
Dr.S.Stellamary	Energy Physics	PPT	02/01/2019
Dr.Sayeeda Sultana	How to Write Thesis	PPT	18/09/2018
Dr.S.Uma Maheswari	John Milton- Paradise Lost Book IX	PPT	24/01/2019
Dr.A.Senthilnathan	E-Filing	PPT	14/02/2019

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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	845	10	100	5	3	5	20	1	0
Added	50	2	0	1	1	1	4	0	0

Total	895	12	100	6	4	6	24	1	0

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

1000 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
Videos ppts	https://www.youtube.com/channel/UCLLSVQrTmPf0fBN9FqEV5kQ

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 incurredon maintenance of physical facilites
350	285	65	47.5

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)

The Institute has a Development Section comprising Estate Officer for overseeing the maintenance of buildings, classrooms and laboratories. Estate Officer works in with a group of dedicated maintenance and supporting staff to ensure that the buildings, equipments, and all other infrastructural facilities of the Institute are continually kept in good condition and holds the responsibility to ensure the cleanliness of the facilities and the surroundings. Laboratory Record of maintenance account is maintained by lab technicians, Lab In charge and supervised by Heads of the concerned departments. The calibration, repairing and maintenance of sophisticated lab equipments are done by the technicians of related owner enterprises. In Library, the requirement and list of books are taken from the concerned departments and Faculty members and Heads are involved in the process. The finalized list of required books is duly approved by the Registrar. Suggestion box is installed inside the reading room to take users feedback. Their continuous feedback helps in introducing new ideas regarding library enrichment. To ensure return of books, 'no dues' from the library is mandatory for students before appearing in the institution examination. Other issues such as weeding out of old titles, schedule of issue/ return of books etc. are chalked out / resolved by the library committee. OPAC software is used in Library for checking the availability of Books. Sports: The Physical Director maintains the sports equipments of the Institute. During 2018-19, the Institute participated in Cricket, Kabaddi tournaments and won inter-collegiate championship. Computers: Centralized computer laboratory has been established to enrich the students. ERP software is used for automation of operations and other knowledge in IT, ITES developments. Each Department is having appropriate computers for their requirements. The campus is enabled with Wi-Fi and Internet facility. Open access journals facilities are also available. Classrooms: The Institute has various committees for maintenance and upkeep of infrastructure. At the departmental level, Heads submit their requirements to the Registrar regarding classroom furniture and other facilities needed. Administrative officers will take in charge for student's academic requirements. Lab instructors maintain the stock registers by physically verifying the items around the year. Department wise annual stock verification is done by inter department faculty. Regular maintenance of Laboratory equipment is by

Laboratory Assistant along with Laboratory attendant under the supervision of faculty in-charge. Regular cleaning of water tanks, proper garbage disposals, pest control, landscaping and maintenance of lawns are done by employees of maintenance department. Maintenance is monitored through regular inspection. Up keeping of all the facilities and cleanliness of environment in men's and women's hostel is maintained through Hostel Monitoring Committee. Outsourcing is done for maintenance and repairing of IT infrastructure such as computers, internet facilities including Wi-Fi and broadband. Updating of software is done by lab administrators. Outsourcing is done for the maintenance of wooden, furniture, electrification, and plumbing. Maintenance of the water cooler and water purifier is done regularly. The maintenance of the reading room and stock verification of library books is done regularly by library staff.

http://spiher.ac.in/committees/planning-and-monitoring-committee/

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	SPIHER - MERIT	20	484375
Financial Support from Other Sources			
a) National	Merit cum Means Scholarship	19	254336
b)International	MERIT	0	0
View File			

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
Personal Counselling and Mentoring	02/08/2018	2700	SPIHER
Remedial classes	13/08/2018	450	SPIHER
Cerificate course on Software testing	03/09/2018	150	Bitacode academy Karim.M https://bit aacademy.com/988443 9520
Certificate course on Data science	13/09/2018	120	ICT ACADEMY/ Mohammed Irfan.A/9840795993
Cognitive Computing and Big data Analytics workshop	04/10/2018	75	SPIHER
Workshop on Robotics	16/10/2018	60	Lema Labs. Mr. Part hiban/8056603335
Soft skill development	05/11/2018	800	SPIHER
Language Lab	15/11/2018	800	SPIHER

Yoga and Meditation	10/12/2018	800	SPIHER
Tally	07/01/2019	80	Microsoft

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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 passedin the comp. exam	Number of studentsp placed
2018	Career Counselling	0	400	0	178
2018	Competitive examinations	250	0	1	0
2018	UPSC Coaching	150	0	1	0
2019	Banking Exam Coaching	24	0	0	0
2019	Tally plus GST	0	349	0	0
2019	CSIR NET/SLET coaching	15	0	3	0
2019	Awareness programme on GATE	100	0	0	0

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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
25	25	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
IDBI FEDARAL LIFE INSURANCE CO. LTD VERNALIS SYSTEMS TATA CONSULTANCY LTD WORKSBOT SAMARTH	1428	125	MULTIPLIER SOLUTION INDIAN NAVY ENTRAYN EDUCATION TECHNOLOGIES (P) LTD KAAR TECHNOLOGIES WIPRO BATA	1098	54

LEARNING SOLUTIONS SHIASH INFO SOLUTIONS JUSPAY TECHNOLOGIES PVT LTD DOMEX E-DATA PVT LTD STAR FING KANTAR OPERATION YES YES TOOLS GRE EDGE YESES E			INDIA INFO EDGE (INDIA) LTD SITEL INDIA PVT LTD CONGRUENT GLOBAL SANMAR GROUP OBJECT FRONTIER SOFTWARE LOGAS TECHNOLOGIES AITHENT I-PROCESS SERVICES		

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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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	1	U.G	B.COM	Loyola College	M.COM
2018	1	B.E	CIVIL	St.Peters College of Engineering and Technology	M.B.A
2018	1	B.E	CIVIL	GRT Institute of Engineering and Technology	M.B.A
2018	3	B.E	CIVIL	St.Peter's College of Engineering and Technology	M.E. Structural Engg
2018	1	B.E	EEE	St Peter's Institute of Higher Education and Research.	ME- PED
2018	5	B.E	MECH	St Peter's Institute of Higher Education and Research.	ME - AMT
2018	2	U.G	B.COM	St Peter's Institute of	M.COM

2018	2	U.G	B.COM	Higher Education and Research.	
2018	2	U.G	B.COM	St.Peter's College of Engineering and Technology	M.B.A
2018	1	U.G	B.COM	Pachaiyappas	M.COM
2018	1	U.G	B.COM	Hindu College	M.COM
2018	1	U.G	B.COM	Loyola College	M.COM
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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
NET	1
SLET	2
TOFEL	3
Civil Services	1
Any Other	1
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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
Womens Day celebration- cultural programme	Institutional	300
Independence Day celebrations	Institutional	500
Annual Sports Cultural day	Institutional	800
Pongal Celebrations- cultural and sports events	Institutional	500
Martyrs Day- drama	Institutional	100
World Literacy day	Institutional	300
World Poetry day	Institutional	300
Annual sports meet for school children	State	500
Republic day - cultural programme	Institutional	200
Radio mirchi culturals	Institutional	500
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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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	First	National	1	0	SP16ECU202	M.Karthikeyan
2018	Individual championship	National	1	0	SP16ECU203	M.Karthikeyan
2018	Winner-Karate	International	1	0	Sp17cmu333	Tamilmani. G.S
2018	Winner-Chess	National	1	0	SP17CMU013	Akash R
2018	1st Prize - cash prize Rs 3000	National	0	1	SP18CMU299	Sudharsan. P
2019	Winner-Basket Ball	National	1	0	Sp18ucc012	Gozwin Thomas
2019	Teen Super Model India	National	0	1	SP17EEU202	Abhishek Narasim
2019	1st Prize	National	0	1	SP17CMU023	Arockia Pio.J
2019	2nd prize	National	0	1	SP16CMU026	VIJAY.K
2019	1st Prize	National	0	1	SP16CMU020	Rishimala. A
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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)

With the objective of inculcating the qualities of leadership, organization, and responsibility in the students, a strong representation of students in the academic and administrative bodies/committees has been provided. The Institutional Quality Assurance Cell (IQAC) is constituted in our institution under the leadership of Head of the Institution with heads of important academic and administrative units, a few faculty members and a few distinguished educationists/representatives of local committee and a few student members. Overall control and monitoring of Institutional IQAC is through Quality Assurance and Enhancement (QAE) for the effectiveness of the overall processes and systems. The Class Representative (CR) system is fundamental to student representation as leaders. It allows one male and one female student to represent each class of approximately 60 students in the Institute, with regular meetings on every third Friday of the month to ensure the systems efficiency and effectiveness in putting forward the interests and views of the students. CR meetings play a major role to assess teaching , learning and support services provided to the students by the Institution and the functioning and effectiveness of the CR system is monitored by the Dean office. Technical/Functional /University Club /Committees elect President, Vice Presidents, Member Secretary, and Treasurer positions, where students organize

domain specific events, extra-curricular events (non domain specific), competitions and conferences honing their subject expertise skills in addition to their leadership skills. Club/Committees are platforms that offer a plethora of opportunities to students to give them a voice of their own and shed their inhibitions through an enriching and engaging experience. Inaddition to the existing centers ,to encourage and motivate students to be successful innovators students are given adequate exposure through the Institution Innovation Council (IIC) of the MHRD. The student members get benefitted and in turn spread awareness about the numerous programmes offered under this council and motivate other students to participate. Club/Committee activities, workshops, Intra-Domain and Inter-University competitions enhance the communication skills, team management skills, leadership skills, time management, resource management skills and above all builds confidence in each student. Through the Club/committee platform, provided by the Institution/University, students learn to do practical implementation of the classroom. Best practices of each Institution are transmitted across Institute to strengthen the student's platforms for holistic development of each student of the Institute.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

SPIHER Alumni Engagement At a Glance: To build a self motivated and continuing relationship with SPIHER Alumni. To facilitate higher collaboration and connection for mutual wellbeing and progress. Our Alumni are adding values to its popularity with their influences to the society. The areas where SPIHER is utilizing the Alumni Network are : 1.In building the University's reputation, which depends in giant section on how profitable graduates are in the actual world. 2. Our existing students have higher job prospects because their seniors are creating a perfect legacy in the corporate world with their knowledge and values. 3. Invited Talks/ Guest Lectures/ Alumni Forums. 4. As the Participants/ Speakers/ Sponsors for workshops and convention. 5. Representatives of the enterprise during recruitments and motivating present set of students by means of having the presence of their seniors in the company. 6. Alumni additionally shape the active member for Area Advisory Board and make contributions in the improvement of the curriculum. 7. Alumni also form the energetic contributors of IQAC at a number of levels. Their inputs are vital in bringing significant developments and pleasant enhancements.

5.4.2 – No. of registered Alumni:

570

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

189400

5.4.4 – Meetings/activities organized by Alumni Association :

To build a self-motivated and continuing relationship with SPIHER Alumni to facilitate greater collaboration and connection for mutual well-being and progress. Our Alumni are adding values to its reputation with their influences to the society. Formal Alumni Meets are such opportunities which enable Alumni to reunite with their friends and faculty members, revitalize their memories and share experiences. At the same time it also enables us to receive constant updates of our Alumni and to have structured engagements with our Alumni of mutual interests and gains. The areas where SPIHER is utilizing the Alumni Network: 1.In building the University's reputation, which relies in large part on how successful graduates are in the real world. 2.Our existing students have

better job prospects because their seniors are creating a perfect legacy in the corporate world with their knowledge and values. 3.Invited Talks/ Guest Lectures/ Alumni Forums. 4.As the Participants/ Speakers/ Sponsors during workshops and conference 5.Representatives of the company during recruitments and motivating existing set of students by having the presence of their seniors in the company. 6.Alumni also form the active member for Area Advisory Board and contribute in review and development of the curriculum. 7.Alumni also form the active members of IQAC at various levels. Their inputs are very significant in bringing developments and quality enhancements. 10 alumni participated as Resource persons in Workshops. 5 alumni participated in National /International Conferences. 4 of the alumni were present as Motivators in the Management Meet. 15 alumni are actively involved in Board of studies as well as IQAC. Alumni also engage in linking with the Industries.

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)

Decentralization: The department heads have academic independence. As far as academic aspects are concerned, the HoDs are permitted to take routine decisions in accordance with the situations in emergency. The institution functions with the method of decentralized control system. The head of the department has been granted with the authority of deciding the activities and delegating the responsibilities to the staff members. The department decides on timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, symposia, guest lectures and workshops and recommends necessary industrial visits, inplant trainings, internships and MoUs. Participative Management: All the academic activities are decentralized and decisions are taken based on discussion and deliberations in the class committee meetings, department meetings, faculty meetings and HODs' meetings. The ViceChancellor coordinates with the departments, administration and management. Every year Academic Planner is prepared at the starting of the academic year. Directors, Deans, IQAC Coordinators, HODs, Training Placement Officer, Librarian and Director of Physical education will prepare the planner. The following is finalized in the academic planner: the Working days / Test days / model exam days, Department Symposium /Association activities, IEEE , ISTE, SAE, IETE, IE, CSI activities, Guest Lectures, Industrial Visits, Internships, Placement Trainings, Internal Quality Audit Days, External Audit, FDPs / Workshops / Conferences, IQAC Meetings, Project Exhibition for Final years, NSS camp, Induction Day, Women's Day, Engineers' Day, Teachers' Day, Sports day, College day and Convocation Day. The schedule is approved by the Vice Chancellor and Academic Calendar will be prepared.

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
Industry Interaction / Collaboration	Memorandum of Understanding with leading institutes and industries helps in a lot of Industry and Research interaction. The following are the MoUs signed by our Institute in the academic year 20182019: Ø MOU with Indian

	Maritime Management and Research Institute (IMMRI) on 07.07.2018 Ø MOU with CADDCAMM Solutions (Mech) on 10.08.2018 Ø MOU with Education Matters on 12.08.2018 Ø MOU with Indian Institute for Knowledge and Excellence (IIKE) on 26.09.2018 Ø MOU signed with Taylor's University, Malaysia 17.10.2018 Ø MOU with CDAC Gist PACE Authorized Training Centre (CDAC) on 29.10.2018 Ø MOU with Profolic Systems and Technologies Pvt. Ltd on 11.01.2019 Ø MOU with Labtech Innovations on 01.02.2019 Ø MOU with TRIL Into Park on 20.02.2019 Ø MOU with TECHNOCRAFT AUTOMATION on 22.02.2019 Ø MOU with Tapstia Institute of Higher Education and Research (TIMELAC) on 22.02.2019 Ø MOU with Tamil Nadu Progressive Small and Tiny Industries Association (TAPSTIA) on 22.02.2019 Significant efforts have been taken to establish the Technology Business Incubator along with the Department of Science and Technology. MSME Business Incubator has also been set up which funded projects. Consultancy activities are also being carried out for various industries. The students exchange programme has been initiated this year by signing an MOU with Taylor's University, Malaysia. The institution also signs MOU with several industries/ academic institutions in India and abroad. Institution always emphasises on excellent bond with industries in terms of student or faculty interaction and working on collaborative projects of societal importance. Siemens Industry 4.0 was conducted in association with Technocrat Automation. Many students across various engineering disciplines completed their industry internship in various core industries.
Admission of Students	U.G. Programs : B.E. / B.Tech. Candidates should have passed 12th standard or equivalent examination and should have cleared the Entrance Examination conducted by the institute. On the basis of merit, the students are asked to appear for counselling for admission. Scholarships are offered to the meritorious students for admissions. • 50 to 75 percentage of Tuition fee is offered as scholarship to meritorious students. Candidates with Diploma in Engineering are admitted to II year B.E. / B.Tech.

course (Lateral Entry) on the basis of performance in their qualifying examinations. To improve the diversity of students and quality of intake, the Institution participated in Educational Fairs organised in various states and countries. B.A. / B.Sc. / BCA / BBA Candidate for admission to the first semester of the under graduate degree programme must have passed the Higher Secondary Certificate examination or any other examination of any authority accepted by this Institution as equivalent thereto. B.Arch. Candidates should have passed 12th standard or equivalent examination with a minimum aggregate of 50 marks with Mathematics and English as subjects of study as per the norms of Council of Architecture. Candidates should have a minimum score of 40 in National Aptitude Test of Architecture (NATA). After joining our institution, many induction programmes and bridge courses are conducted for the benefit of the freshers. P.G. Programmes For admission to M.E. / M.Tech. programmes, candidates with a pass in appropriate B.E. / B.Tech. degree examination of this Institution or equivalent thereto are eligible to apply. Selection is based on merit in qualifying examination. The candidates who had already attended central / State level Entrance examination and having a valid score in GATE / TANCET are allowed to join. For Research Programs a department level entrance examination and interview as per UGC guidelines are conducted for admission to Ph.D. programmes. Qualification for admission to Ph.D. programs • Candidates with a degree in M.E. / M.Tech. or M.S. (By Research) in the relevant branch of Engineering or Technology are eligible to apply for Ph.D. programs in Engineering Technology in full time mode and part time mode. • Candidates with M.Sc. / M.A. / M.C.A / M.S. (By Research) / M.Phil. in the relevant branch of Science and Humanities are eligible to apply for Ph.D. Degree in Science and Humanities. • MBA / M.Phil. / Postgraduate Diploma in Business Management or Administration awarded by Indian Institute of Managements (IIMs) / M.S. (By Research) in Management Sciences / MMS / 2 year postgraduate

	diploma in Management recognized by AICTE are eligible to apply for Ph.D. degree in Management. • A committee, constituted department wise, by the Dean (Research and Development) for the purpose of selection, screening the applications as per the eligibility norms and conducts entrance test for eligible candidates.• On the basis of their performance in the test, the committee interviews them to shortlist the eligible candidates and is approved by the Research Board. Research methodology workshop is being conducted every year for the benefit of research scholars to understand the procedure and ethics to be followed during the tenure of research period.
Curriculum Development	The curriculum and syllabus is periodically revised to keep the students abreast with the latest developments, current trends, emerging technologies and skill development for industry needs. Feed back from all the stake holders such as alumni, employers, parents and students in addition to senior faculty members of the department are conducted. Suggestions from various stake holders are analysed and recorded. Revision / modification in the curriculum frame work for various programmes offered by the respective departments are arrived based on the stakeholders' feedback. Meeting of Board of Studies (BOS) is also organized to further brainstorm and approve the suggestions /modifications / inclusions in the curriculum syllabus. Meeting of BOS is conducted by all the departments during August and March. All the revisions in the curriculum and syllabi of UG and PG programmes as recommended by the Board of Studies of various departments are further deliberated and approved in the Academic Council. To improve the quality of education, student centric Outcome Based Education system and more number of electives are introduced in the curriculum. During the year, almost all the programmes have been revised and new regulations have been introduced based on the above actions.
Teaching and Learning	The Institute has a perspective plan for deployment in all aspects based on the vision and mission of the Institute. The Institute has been

	constantly developing the infrastructure which helps in improving the quality of teaching learning process. Along with the Lecture method using blackboards all the departments are using modern teaching methods and aids. The faculty use student centric teaching method through participation in seminars, group discussions, case studies, field works, mini projects and project works. ICT enabled teaching learning using Smart Class Room is augmented in most of the departments. The use of multimode and multimedia technologies such as traditional chalk talk, OHP, Smart Boards, LCD projectors with PowerPoint slides, video clips, Teaching pedagogies such as Google Classroom, Kahoot, Hot Potatoes to provide the Blended learning or flipped learning experience to the students. Students and faculty are motivated to make optimal use of library learning and online resources. Teaching and learning process is more focused towards development of professional knowledge, problem solving skills, leadership skills, decision making skills, communication skills, team work etc. The faculty who are actively engaged in research help the students to do research projects in the latest developments. Internships, Industrial visits, guest lectures by senior professionals and experts from industry, projects in association with industries, etc provide the best industry oriented practical learning experience to students.
Examination and Evaluation	For continuous assessment and university examination 25/75 weightage is given. Transparent procedures are followed for the conduct of examinations and evaluation. Central Valuation is conducted for end semester examinations. Three Question papers are prepared for each course to meet the outcome based education. The randomly chosen question paper is printed and issued. Answer papers of each course are evaluated by the internal and external faculty subject to the screening procedure by the Head of the Department. Continuous Assessment tests are conducted regularly. For these three Unit tests and Model Examinations are conducted. OBE pattern question papers to assess student's attainment

		of course outcome and knowledge level are prepared by the trained teachers. After completion of continuous assessments the marks obtained by the students are sent to the parents through posts. After completion of semester end examinations the results are published within 15 days. For each semester and programme, course outcome and programme outcome are evaluated and necessary action taken for imrpovement where ever required. Systematic and well organized procedures are followed to address students grievances relating to examination by the Grievance Redressel Committee.
	Research and Development	A Research Forum has been constituted with Dean RD as the Chairman and Director RD as the Ex officio member with two Heads of the Departments as the members. This forum is created with the following objectives. • To create awareness on concept development for Innovative research Problems. • To provide ideas on 'Research approach for Global reach'. • To provide guidelines for utilization of Resources for Research. • Unveiling the significance of identifying the original research problems to file patent • To provide guidelines for organization of Conference/Seminar/Workshops/Symposia and Publication in peer reviewed journals. SAIF centre has organized an Induction Programme for nearly 35 M.Sc students of various colleges from in and around Chennai. Under the guidance of MHRD Institution's Innovation Cell was formed with eminent faculty through which the programmes like Project Expo, Innovation Challenge are conducted to develop the practice of innovation. The research committee constantly takes efforts to improve the quality of research by motivating faculty members to apply for projects. Centres of Excellences have been set up in the thrust areas such as Disaster Management, Advanced Materials, Nanotechnology, Cloud Computing, IoT and Robotics, Red Hat Linux etc. Awareness is created among the faculty and research scholars to publish their research articles in Peer reviewed and Scopus Indexed Journals. Antiplagiarism check is made mandatory. Urkund antiplagiarism software is used by the Institution for plagiarism check.

		Policies for doing research, giving seed money, consultancy and code of ethics are available.
	Library, ICT and Physical Infrastructure / Instrumentation	Library functions as a Knowledge Resource Centre and facilitates students and teachers to enrich their knowledge not only in their subjects but also in skill development. The Central Library is functioning from 8.30 am to 4.00 pm on all working days. Over 10 thousand eJournals from IEEE, ASCE, ASME, EBSCO Art Architecture, EBSCO Business Source Complete, Springer, Elseiver, Royal Society of Chemistry are being subscribed. Digital library has been created with 100 computers to access online resources. This is functioning on all working days. The Central Library is a member of Shodhganga for the uploading of Ph.D. thesis. The Central Library is using Library software for organizing Library Information at regular intervals to update the latest additions. Video lectures and course contents of NPTEL are made available in the central library. The Institution has tied up with Central Depository Services India Limited to implement National Academic Depository (NAD) system in the Institution as per MHRD guidelines. Automation of academic and administrative activities is strengthened through implementation of ERP software. Video lectures and course contents of the courses are made available in the institution website. ICT enabled teaching learning using Smart Class Room is augmented in most of the departments. The use of multimode and multimedia technologies such as traditional chalk talk, OHP, Smart Boards, LCD projectors with PowerPoint slides, video clips, Teaching pedagogies such as Google Classroom, Kahoot, Hot Potatoes to provide the Blended learning or flipped learning experience to the students. The quality of student experience is the main priority of our institute. A high quality learning environment is ensured which includes spacious classrooms, well equipped laboratories, latest computing facilities, rich and diversified resource centres, smart class rooms, seminar halls, auditoriums, sporting facilities, well equipped gym, practice and rehearsal

	halls for cultural activities and feel at home hostel accommodation facilities for girls and boys. Auditorium is almost on the verge of completion with built up area of 50,000 Sq. ft. Major restroom renovation work has been carried out in the main block. Major painting work is done in all the buildings of the institution. 5 Nos. of New buses are bought. RO plant and water treatment plant are installed in the campus. The Institute participated in MHRD Swachh Bharath movement and is highly appreciated.
Human Resource Management	Institution enables to induct more number of Ph.D. holders in the faculty positions. The faculty members with PG qualification are encouraged and permitted to pursue Ph.D. either on campus or at eminent academic Institutions. Arts and Science faculty members are asked to qualify for NET/SLET. Institution also gives emphasis on bio diversity of faculty members. some faculty members are inducted from different states of India. Institution allowed all the non Ph.D. staff members to register for PhD programme. To maintain smooth working atmosphere, the Institution created adequate facilities for both teaching and non teaching staff members. For the Professional Development of Teaching Staff, the institute conducts induction programmes and orientation programmes for freshers. Institute also provides 'on duty' facilities to carry out research activities in industries / other universities / research centres. In the annual budget, all the departments are allocated funds separately for Research Development. They are encouraged to publish papers in national and international journals, write textbooks and obtain funded projects for which university is giving cash incentives. They are also encouraged to present their research papers in international conferences and are permitted to go abroad to present their findings. The management sponsors the registration fee and travelling expenditure in India and abroad. Institution provides seed money to carryout Pilot Projects to demonstrate technical feasibility of innovative ideas. All the departments are encouraged to organize national and

international seminars / conferences / workshops and faculty development programmes. Faculty members are encouraged to attend faculty development programmes and training programmes for knowledge enhancement getting additional training. The trained faculty members are encouraged to impart training to other faculty members. Faculty members are also encouraged to undergo summer / winter training programs in the Industry / Institutions.

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

E-governace area	Details
Planning and Development	Smart Point Technologies
Administration	SPIHER
Finance and Accounts	G S Technologies
Student Admission and Support	Anadoc Software
Examination	Geetham Software

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
2018	Dr.R.Rani Hemamalini	Membership Fee	IEEE	3500
2018	Dr. B. Shanthini	Membership Fee	IEEE	3500
2018	Dr.P.Asha	Membership Fee	Membership-Indian Society for Structural Engineers, Mumbai(ISSE)	5000
2018	Mrs.K.B.Shoba	Patent Filed	Intellectual Property of India	1750
2018	Dr.G.P.Ramesh	Membership Fee	IEEE	3500
2018	Dr.G.P.Ramesh	Patent Filed	Intellectual Property of India	1750
2018	Dr.G.P.Ramesh	Patent Filed	Intellectual Property of India	1750
2018	Mr.P.Sampath	Membership Fee	Membership-Indian Society for Structural	5000

| 2018 | Ms.M.Deepika | Training on Internet of Things | SSN College of Engineering | 500 |
| 2019 | Dr.P.Jaya Kumar | Workshop E-Resources for Learning, Teaching and Research- | Guru Nanak College, Chennai, | 400 |

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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)
2018	Lecture on "Industrial Automation '		19/07/2018	19/07/2018	45	0
2018	Lecture on Rewitt Mep		23/07/2018	23/07/2018	50	0
2018	Interaction on "Scope in software Industries by Terry Jhonson/Amazon and Core Industries "		24/07/2018	24/07/2018	30	0
2018	Guest Lecture on "Career in Entrepreneurship"		24/07/2018	24/07/2018	40	0
2018	Awareness Programme on Competitive Examination by IIKE		27/07/2018	27/07/2018	73	0
2018	Guest Lecture on "PLC, SCADA and		03/08/2018	03/08/2018	25	0

2018	Workshop on "Microsoft Project"		07/08/2018	07/08/2018	50	0
2018	Seminar on IPR Focus Patent and Commercialization Strategies for Indian Scenarios	Seminar on IPR Focus Patent and Commercialization Strategies for Indian Scenarios	09/08/2018	09/08/2018	50	18
2018	Patent Awareness Programme		11/08/2018	11/08/2018	57	0

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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
Faculty Development Programme	2	04/06/2018	08/06/2018	5
3 Days FDP on Object Oriented Programming using Java	5	07/06/2018	09/06/2018	3
National Workshop on Research Paper Writing	34	20/06/2018	20/06/2018	1
IGBC Green League Training Programme	2	23/06/2018	23/07/2018	30
Workshop on "Introduction to Autodesk AutoCAD"	16	27/06/2018	28/06/2018	2
National Workshop on "Precast and Pre-fabricated structures".	7	29/06/2018	29/06/2018	1
National Workshop on Recent Trends in Fabrication and Characterization of Nano	3	05/07/2018	06/07/2018	2

Composites Related to Combat Vehicle Components				
International Workshop on Graph theory	6	13/07/2018	14/07/2018	2
FDP on Enterpreneurial Development Program 1	1	14/07/2018	14/07/2018	1

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
190	190	100	100

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Transport facilities for teaching faculty are provided at free of cost. Schemes like contributory Provident Fund and ESI health scheme are provided to the eligible faculty. Further, admissions to the wards of the faculty are provided. The teaching faculty are encouraged to register for Ph.D. and attend conferences/seminars/FDPs to enrich their knowledge. Special leave and reimbursement of registration fee are available for recognised programmes. Faculty are also encouraged to deliver lectures, keynote papers in other institutions. Group Insurance is also provided to the faculty members. Eligible staff members are granted marriage leave and medical leave in addition to casual leave. Female staff are eligible for maternity leave.	Transport facilities for nonteaching faculty are provided at free of cost. Schemes like contributory Provident Fund and ESI health scheme are provide to the eligible faculty. Further, admissions to the wards of the faculty are provided. Group Insurance is also provided to the non-teaching staff. Eligible staff members are granted marriage leave and medical leave in addition to casual leave. Female staff are eligible for maternity leave.	Group Insurance is provided to all students which helps them in case of accidents. Fee concession is given to students who excel in academics. Assistance is given to the students for filling details for National Scholarship portal. Student counselling is provided for all the students. A medical centre is available in the campus to help the students. Bank is available on the campus for the benefit of the community. Various programmes in Yoga and Meditation, Orientation Program, Induction program, Guidance for competitive examinations, Career counselling, In house placement training etc are provided to the students. Play ground with multi facilities like Cricket, kabadi, Foot ball, volley ball and tennis and Separate Gym for Boys and Girls are available in the Institution. Medical

		centre with Ambulance facility, Bank, Store, ATM and Canteen facilities are also available.

6.4 – Financial Management and Resource Mobilization

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

The Institution conducts internal and external financial audits regularly. The Institution's budget is submitted to scrutiny by internal auditors. The finance section of the Institution does internal audit of all the expenditures made by the various sections of the Institution including the academic Departments. The internal auditor scrutinizes the Institution financial aspects of the Institution every year. The main scope of the internal audit is to find out the defects and rectify them at the earlier stage and to set guidance to follow in future. Book accounts of the Institution will be submitted to the external auditor then the account externally audited by a chartered Accountant as per the requirement of UGC and returns are filed to the Income Tax department as per the Trust Act. A copy of the audit statement, which has been filed to the Income Tax department, is sent to UGC.

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
Management, non-government bodies, individuals, philanthropies	428000	Conference, Workshops, Seminars, FDPs and Guest Lectures
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6.4.3 – Total corpus fund generated

15000

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	Experts from Anna University	Yes	IQAC
Administrative	Yes	Experts from Anna University	Yes	IQAC

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

Not Applicable

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

Parents also act as the members of IQAC cell of Institution and offer their valuable suggestion for the improvement of the Institution. Parents working in Industry / Entrepreneur support the students of the department by way of offering Industry Internship, placement, industrial visits, seminars etc. Parents Teacher meeting is organised once in a semester to facilitate parents

to freely interact with faculty members handling various courses and get to know about the academic, curricular and co curricular performance of their ward. In addition, this meet gives an opportunity for the parents to know the academic system of the Institution and gives their feedback and suggestion for academic development, infrastructure enhancement etc. Suggestions from parent are analysed and recorded. Revision / modification in the curriculum frame work for various programmes offered by the respective departments are arrived based on the parent's feedback.

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

Workshop on Value Education Titled "Eternal Peace" on 24.08.2018 Women Awareness Program under Caption 'Pen Nalam' on 28.09.2018 Workshop on Consumer Awareness and Financial Training on 13.03.2019

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

1. Staff are encouraged to publish quality articles in Web of Science / Scopus / SCI Indexed journals and take up research projects from Government funding agencies. Awards and Incentives are given to the faculty for their excelling research work. This has helped in improving the citatiions. 2. CBCS and OBE are implemented in all aspects of Curriculum development, Question Paper Preparation and all other Academic activities. Addition of learning resource materials in the form of Text Books and PPTs, Video Lectures and Econtents are added in the Digital Library. This has helped in assessment of student's outcome. 3. Several planning Committees are formed for achieving the vision of the institute and targets for various activities other than academics. Institution Innovation Cell is formed to promote innovation. Collaborations with one Foreign University for Student Exchange Programmes and Collaborations with Industries for Student Project Training. 4.Many programmes have been conducted on IPR and New innovations to improve the patents publication.

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	No

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
2018	1st Quarterly Meeting of IQAC	02/07/2018	02/07/2018	02/07/2018	20
2018	ISO Internal Audit I (Odd)	26/07/2018	26/07/2018	27/07/2018	135
2018	Inauguration of IEEE student Branch	02/08/2018	02/08/2018	02/08/2018	323
2018	Induction programme for New Faculty	04/08/2018	04/08/2018	04/08/2018	38

2018	Formation of Institute Innovation Council	30/08/2018	30/08/2018	30/08/2018	2110
2018	2nd Quarterly Meeting of IQAC	06/10/2018	06/10/2018	06/10/2018	20
2018	Preparation and Submission of AQAR 2017-2018	12/10/2018	12/10/2018	12/10/2018	132
2018	Collection of Feedback form from students for the odd semester	20/11/2018	20/11/2018	20/11/2018	2498
2018	Coaching for NET/SLET exams for Faculty	25/11/2018	25/11/2018	25/11/2018	34
2018	ISO Internal Audit II (Odd)	13/12/2018	13/12/2018	14/12/2018	135

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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
Workshop on Grooming and self Confidence	05/09/2018	05/09/2018	158	78
Prevention of sexual harrassment of women at workplace	28/09/2018	28/09/2018	142	61
Women Awareness Programme Under Caption Penn Nalam	28/09/2018	28/09/2018	200	30
Women Awareness Programme Under Caption Penn Nalam	06/10/2018	06/12/2019	170	55

Online safety for women	23/10/2018	23/10/2018	318	0
Observance of Equality among students devoid of sexual discrimination	20/02/2019	20/02/2019	242	30
Women's Day	08/03/2019	08/03/2019	818	43

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
Percentage of power requirement of the University met by the renewable energy sources : 18 percentage Environmental Consciousness and Sustainability :Annual Lighting power requirements met through LED Bulbs 35 percentage

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	10
Provision for lift	Yes	20
Ramp/Rails	Yes	20
Braille Software/facilities	Yes	1
Rest Rooms	Yes	10
Scribes for examination	Yes	10
Special skill development for differently abled students	Yes	5

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
2018	27	27	05/06/2018	1	Concept DevelopmeConcept Development for Human Excellence	Motivated the volunteers and students to serve the community in a best possible manner.	195
2018	27	27	11/06/2018	1	Yoga Awareness Programme	Immerse yourself in your yoga practice	225

						in our day to day life	
2018	27	27	13/06/2018	1	Eye Camp	Created awareness, importance of eye conducted eye checkup	235
2018	27	27	19/06/2018	1	International Yoga Day	Universal access to quality education and learning opportunities thro ughout people's lives	145
2018	27	27	26/06/2018	1	CPR(Cardio Pulmonary Resuscitation training	CPR is to restore spontaneous blood circulation and breathing in a person who is in cardiac arrest.	210
2019	25	25	02/01/2019	1	Electrical Wiring and power savings	The School Students actively participated this session.	128
2019	25	25	05/01/2019	1	Youth Society	The Programme officers is expected to motivated the student to understand the values and philosophy, role of youth	175

2019	25	25	09/01/2019	1	Fit India Movement	Motivated the volunteers and Students to serve in good heaith	390
2019	25	25	09/01/2019	1	SOS Kavalan App	Commissioner is given the instruction to save our souls by SOS kavalan App	243
2019	25	25	16/01/2019	1	Digital payments system	Students were taught how to pay Digital Payments Systems through PAYTM	83
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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)
Code of Conduct for Students	02/07/2018	Students have to follow the updated code of conduct of the students
Code of Conduct for the Functionaries	02/07/2018	The code of conduct for functionaries include the Vice Chancellor, Registrar,Controller of Examinations and Deans of various faculties.
Code of Conduct for the Faculty	02/07/2018	The faculty and Non teaching staff have to follow the Institute norms.
Code of Conduct for Research Scholars	02/07/2018	Research Scholars have to follow the norms including Plagiarism
Code of Conduct for Non Teaching	02/07/2018	The Non Teaching staff have to ensure the safety of the laboratories, equipment and well being of students

Code of Conduct for Hostel Students	02/07/2018	Rules and regulations of the Institute to be followed scrupulously by the Hostel students

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Pongal Celebrations	11/01/2019	11/01/2019	1500
Womens Day	08/03/2019	08/03/2019	750
Holi	21/03/2019	21/03/2019	525
Independence Day	15/08/2018	15/08/2018	110
Teachers Day	05/09/2018	05/09/2018	117
Engineers Day	15/09/2018	15/09/2018	103
International Non Violence Day	02/10/2018	02/10/2018	78
International day for Disaster Reduction	13/10/2018	13/10/2018	134
National Constitution day94	26/11/2018	26/11/2018	94
Flag day	07/12/2018	07/12/2018	96
National Youth day	12/01/2019	12/01/2019	90
Republic Day	26/01/2018	26/01/2019	110
Womens Day	08/03/2019	08/03/2019	2250
World Health Day	07/04/2019	07/04/2019	190

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

1. Planting of more Saplings 2. Dustbins in every room and in every lane for biodegradable and non biodegradable substances separately 3. Plastic free campus 4. Reverse Osmosis water 5. Rainwater harvesting 6. Solar panels to generate electricity

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice (I) 1. Title of the practice: Promoting Innovations through Patenting 2.Objective of the Practice: ? To make use of new innovations of the faculty and students effectively. ? To develop the new concepts, ideas into product through patenting. ? Patents can play a prominent role in the entire technology life cycle, from initial RD to the market introduction stages, where competitive technology is protected with patents 3. The Context: ? To make remedial measures to make the students understand the fundamentals. ? To motivate the students and faculty to give their innovative ideas to file patents ? To develop learning opportunities that are flexible to support their learning patterns. 4. The Practice: ? The Centre for Product Development conducts special lectures periodically to inculcate new ideas in faculty and students. ? Project exhibitions organized every year to motivate the students by giving them prizes for best innovations ? Seed money is provided by the management to develop the new ideas and projects for students and faculty ? Seminars and guest lectures where organized on IPR through Institute Innovation

Council Evidence of Success: o 24 patents have been published in the academic year 2018-19 when compared to 3 patents in the academic year 2017-18 Best Practice (II) 1.Title of the Practice: Generating Revenue through Consultancy 2.Objective of the Practice: ? To provide enrichment of expertise and knowledge through interaction in the professional sphere. ? To create an interactive learning environment for Faculty with the Industry personnel. ? To make use of the infrastructure available in the Institution for societal development. ? To generate revenue for the Institution utilising the expertise of the Faculty. 3. The Context: ? To encourage Faculty to interact with Industry to solve Industrial problems. ? To promote social wellbeing by associating with Industries and solving their issues and problems 4. The Practice: ? A standard consultancy policy has been framed by the Institute. ? Guidelines have been framed for the consultancy charges which can be revised every year. ? The fund received by the department can be utilized for the academic research activities of the consultant and welfare of the department. 5.Evidence of Success: o Revenue generated in Consultancy has considerably increased in the academic year 2018-19 and the total consultancy amount is Rs.17.5 Lakhs.

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

http://spiher.ac.in/wp-content/uploads/2020/02/Best-Practices-SPIHER.pdf

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

St Peters Institute of Higher Education and Research was started in 1998 at Avadi, Chennai. The institution continuously strives to focus on imparting quality technical education and introducing innovative programmes leading to Research and Development for sustainable growth. SPIHER is committed to usher in socio-economic transformation by providing inclusive innovative quality education of global standards to fully meet the expectations of the stakeholders as initiated by the founding fathers. So SPIHER recruits and retains well qualified motivated faculty, adequate infrastructure, equipment and machinery. Also it provides amenities and sports facilities. Industry-Institute interaction is undertaken to provide adequate exposure to the students to the world of work. Enrich library with latest teaching gadgets promotes effective teaching-learning process. SALIENT FEATURES OF INSTITUTE: ? Institute is easily accessible through bus and train, as the institution is situated very close to Annanur Railway station. ? Institute provides holistic education to develop skills, knowledge and values through well-structured curriculum and instructions to face the challenges of the corporate world and life. ? The Anti-Ragging Committee prevents the indisciplinary acts in the campus. ? Power backup facility is given in the campus for 24 x 7. ? Refreshments are available round the clock at Coffee Day express and at the canteens, cafeteria, and shops. ? The campus is cleaned regularly by service provider called NEAT and CLEAN. ? Surveillance and security is made sure through CCTV cameras on every floor. RO processing coolants, and clean washrooms also are available on every floor. ? Separate parking is available for two wheelers and four wheelers. ? The student NSS and YRC wing is active in order to imbibe strong Social values in our students. ? The institute takes conscious efforts to create awareness about energy conservation and renewable energy usage among students. Solar panels are used in the hostel and in the college campus. ? Significant career guidance programs arranged by institute to guide rural area students by arranging campaigns nearby villages. ? Various personality development programs and health check-up camps are conducted under NSS, YRC and women's redressal committee. ? Institute has provided career development services to students with respect to higher Education and

opportunities for growth. ? The RD Department plays a vital role in upgrading our institutions progress and student-faculty enrichment. ? The library is open for scholars, students, and the faculty 12 hours (8 to 8 basis). Various online journals, NPTEL course materials, e-resources, e-books, OPAC, and moreover DELNET facilities are available for both students and faculty. ? Exceptional Students of research (MPhil PhD) are encouraged with stipend ? Physically challenged students are ensured with safety, comfort and academic guidance at SPIHER.

Provide the weblink of the institution
http://spiher.ac.in/wp-content/uploads/2020/02/Distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

St.Peter's Institute of Higher Education and Research has evolved with eminent plans for the future of the institution's development keeping the goals and mission of the Nation in mind. Its prime duty, then, becomes the quality enhancement of the Youth of India, by developing their knowledge and skills at all levels. The vision of the Institution being the fulcrum of the initiatives undertaken, we focus on imparting high quality education with the help of futuristic Research innovations in all disciplines viz., Engineering and Technology, Humanities, and Sciences. The initiatives taken to impart eminence in academic and research areas are built by adopting emerging trends of various disciplines in Science and Technology. Courses that involve Nanotechnology, Smart materials and Technologies, Remote Sensing and GIS, Bioenergy, Nano Robotics, IoT, AI for Speech Recognition, Cyber Security, LiFi Technology etc., are to be undertaken. The courses to be employed during the future years in the field of Sciences would be Applied Crystallography, Graphene and Semiconductors, Climate Science, Space Physics, Green Chemistry etc. Special attention on Learning Systems for students include: Compulsory Internship, Improving analytical and creative skills of students, Initiating Smart/ Digital campus, Imparting Outcome Based Education (OBE) with Choice Based Credit System (CBCS), Credit transfer to students to claim National and International level education, increase in the ratio of PhD faculty, Centre for Foreign Languages to provide better global communication skills, and the implementation of Unnat Bharat Abhiyan. Digital Learning is inculcated through access and application of SWAYAM, National Digital Library, National Academic Depository, eShodh Sindhu, Virtual Labs, eYantra, Free and Open Source Software (FOSS) for education, and eVidwan. The Research and Development Wing has goals for 2032 as: creating cutting edge knowledge by setting at least one Research Centre for each department, Six papers in SCOPUS Indexed Journals per faculty, Fifty Patents, 100 placement for all eligible students, 50 incubater startups, 100 PhD Faculty, Network for 50 Industry faculty, 30 Faculty Internships, Digital Learning (MOOCS/SWAYAM/NPTEL) one per year by each faculty, Starting new programmes in UG and PG, Syllabus Diversification, NPTEL/SWAYAM one per year by each student 6 technical programmes in every department in a year including one international conference, IQAC to conduct minimum 6 programmes every year, four FDPs in a year, three hackathons every year, four outreach programmes every year, MoUs with 10 select Universities around the world, 10 students intake to be international students, 5 of students to undergo student exchange programmes, 10 of faculty to undergo faculty exchange , 15 International coauthored publications, Intake of students 6000 per year, Competetive selection, Separate Library for all programmes including Digital library for 150 users, separate administrative block with offices for VC, Registrar, CoE and Research department, students amenities centre, setting up three offshore campuses, strengthen IT System and implement ERP, sports complex with indoor stadium, and Green campus.