



Yearly Status Report - 2019-2020

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	Dr. P. Dananjayan
Designation	Vice Chancellor
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	044-26558080
Mobile no.	9443768716
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			Self financed																
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)			https://spiher.ac.in/wp-content/uploads/2020/04/AOAR-resubmitted-27.2.2020.pdf																
4. Whether Academic Calendar prepared during the year			Yes																
if yes,whether it is uploaded in the institutional website: Weblink :			https://spiher.ac.in/wp-content/uploads/2021/08/Academic-Calander-2019-2020.pdf																
5. Accrediation Details																			
<table border="1"> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> <tr> <td>1</td> <td>B</td> <td>2.52</td> <td>2015</td> <td>16-Nov-2015</td> <td>15-Nov-2020</td> </tr> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B	2.52	2015	16-Nov-2015	15-Nov-2020
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																			
<table border="1"> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </table>						Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries								
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IQAC		
webinar on IPR and Patent drafting	14-May-2020 1	198
Curriculum Design and Development	01-Feb-2020 1	220
Software,Tools & Techniques for Research	29-Jan-2020 1	128
Quality Assessment and Accreditation under Revised Accreditation Framework (RAF) of	24-Dec-2019 1	174
Faculty Development Programme on Data Analytics	05-Nov-2019 5	52
Awareness lecture on using LMS in Teaching Learning	07-Oct-2019 1	195
ISO Internal Audit I (ODD)	26-Jul-2019 2	220
Lecture on	27-Sep-2019 1	252
NAAC -New Framework	27-Aug-2019 1	201
Induction programme for New Faculty	01-Jul-2019 1	36
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
No Files Uploaded !!!				

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 :	7
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)	
<p>IQAC initiated the full implementation of Outcome based education and CBCS and the same has been implemented in all the departments. IQAC trained faculty in OBE, CBCS and digital teaching-learning methodology by conducting technical programmes by experts. IQAC also prepared guidelines for assessment and evaluation as per OBE. IQAC provided training to faculty in NAAC Revised Accreditation and Assessment Process. Forty seven technical programmes were conducted covering all the departments.</p>	
<p>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.</p>	
<p>MHRD Institution Innovation Council and Centre for Innovation were started for improving quality of research, publications and filing of patents. Three hundred and twenty seven journals notified on UGC website, two hundred and fifty scopus/web of science journals were published during the year. Thirteen patents were published during the year. Thirty five programmes were conducted to motivate students. Twenty five MoUs signed with industry for academic and research collaboration, training and internship. MoU signed with two universities in Thailand and Malaysia.</p>	
<p>IQAC enabled improvement of infrastructure including ICT enabled class rooms, digital library with 30 systems, and new research facilities such as • IBM Cloud computing and Big Data Lab • Crystal growth in Physics Lab. • IoT application and Robotics system learning Lab • Skill and Personality development Programme centre for SC/ST students</p>	
<p>IQAC has also been assisting in improving the performance of the Institute for NIRF and Atal Innovation Ranking of the Institute.</p>	
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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
National Days Celebrations	<p>•International Yoga Day was conducted on 10th July 2019 Chief Guest Mr. L. Saravanan, Yoga Grand master, nearly 225 students and all faculty participated enthusiastically. • International Day of Peace was organized on 21.09.2019 • "The Nightingale of India" was conducted on</p>

13.2.20 • Independence day was celebrated on 15.08.2019 in SPIHER campus • Onam Celebration with competitions for students was conducted by SPIHER on 10.09.2019 • Teachers day was celebrated on 5.09.2019 • Engineers day was celebrated on 15th September 2019 organized by EEE ECE departments • NSS day was celebrated by NSS team on 24.09.2019 • International NonViolence day was conducted with students enacting drama and posters on 2nd October 2019 • International day for Disaster Reduction was organized by Civil department on 13th October 2019 • National Constitution day was organized by Economics Political science department on 26th Nov 2019 • Flag day was celebrated on 7th Dec 2019 by all students • National Youth day Programmes were organized by CSA department on 12th January 2020 • National Voters day was conducted to give awareness to students and many students applied for voter id on 25th January 2020 • Republic day was celebrated in SPIHER campus by hoisting the flag on 26th Jan 2020 • National Science day was celebrated by Physics department by conducting various activities like Quiz, Paper presentation, etc. on 28th Feb 2020 • World health day was celebrated and students actively participated in slogans and posters competition to create the awareness on 7th April 2020

Conferences, Workshops

•11th National conference on recent trends and technologies in soft computing NCRTSC'2019 was organized by Department of Computer Science and Applications conducted on 05th and 06.07.2019 • Sixth International conference on Green Technologies for Power Generation Communication and Healthcare on 6.6.20 by Dept. of ECE and EEE. • International conference on "Futuristic Trends in Mechanical , Materials and Manufacturing which was conducted on 16.6.20 by Mechanical Engg. department • National Seminar on Solutions to water scarcity in Chennai city by Civil Engineering during February 2020 • National conference and HR Conclave by MBA department in March 2020

Students capacity Development initiatives

•Cyber Tech Club -Student's club inauguration was conducted by CSA

department to inculcate the softskills
 Technical skills of the students on 9th
 August 2019 • The Inauguration of IEEE
 student Chapter was organized in the
 presence of Vice Chancellor on 1st
 October 2019 • National level students
 Intercollegiate Symposium Synergy 2020
 by CSA department on 20th February 2020
 • Internship for M.Sc Physics students
 from all over Tamil Nadu was organized
 successfully by RD Section using SAIF
 laboratory facilities in May 2020 •
 Internship on Electric Vehicle
 Technology for EEE from 3/4/2020 to
 13/4/2020 • Internship on "Deep
 Reinforcement Learning Using Python"
 for CSE department from 30.3.2020
 8.4.2020 • Internship on Estimation
 Quantity Surveying for Civil department
 from April 1st to 10th 2020 •
 Internship on IoT Technologies for
 Embedded Computing for ECE department
 from April 1st to 10th 2020 •
 Internship on Data Analytics for
 Healthcare for BME department from
 April 1st to 10th 2020 • Career
 guidance program for students from 21th
 May 2020 to 28th May 2020 • St.Peters
 Visionathon 2020 April 11th 2020 •
 Foundation level training for IIC Brand
 ambassadors In Design Thinking,
 Prototype Designing and
 Entrepreneurship Development from 26th
 May 2020 to 28th May 2020 by IIC Cell •
 level training for IIC Brand
 ambassadors In Design Thinking,
 Prototype Designing and
 Entrepreneurship Development from 3rd
 June 2020 to 6th June 2020 by IIC Cell
 •

Quality Initiative for Faculty

•Seminar on PO,CO and PSO assessment
 and attainment was conducted for all
 faculty and the session was handled by
 Dr.A.R. Kalaiyarasi, Professor/Civil
 Engg. St.Peter's Institute of Higher
 Education and Research on 7.11.2019 •
 Seminar on Learning management system
 using MOODLE was conducted for all
 faculty and the session was handled by
 Dr. R. Latha, Professor and Head
 Department of Computer Applications.
 St.Peter's Institute of Higher
 Education and Research on 13.11.2019 •
 Seminar on Patent drafting supported
 with Excercises was conducted for all
 faculty and the session was handled by
 Dr.Chandramohan, Professor / Department
 of Mechanical Engineering. St.Peter's

Institute of Higher Education and Research on 20.11.2019 • Seminar on National Innovation and startup policy 2019 was conducted for all faculty and the session was handled by Dr.D.S.Ramachandramurthy, Director (Research Development). St.Peter's Institute of Higher Education and Research on 21.11.2019 • Seminar on "Quality Assessment and Accreditation under Revised Accreditation Framework (RAF) of NAAC was conducted for all faculty and the session was handled by Dr. M. G. Sethuraman, Professor, Dept. of Chemistry, Gandhigram Rural Institute (DU), Gandhigram on 24.12.2019. • Awareness lecture on using LMS in Teaching Learning by Dr.R.Latha, Prof. and Head/CSA was organized for faculty members on September 7th 2019 • A Special Lecture on "How to map Students Project with different domains of courses" by Shri.Leo Bernard Ashok Leyland, Chennai on September 20, 2019 was organized by IQAC for all Teaching faculty • A Special Lecture on "Dynamics of KARMA for Embracing Ethical values" by Healer Dr. Abdul Mallika B.Sc(Acu) M.Acu.Ad. Acu, Chennai on September 27 ,2019 was organized by IQAC for all Teaching faculty • The NAAC - New Framework was explained by Prof. G. Augustine Maniraj Pandian, Principal Coordinator/IQAC, SRM Institute of Science and Technology for all faculty on 27.08.2019 • IEEE Xplore search strategies orientation program was organized and the orientation was given by Mr.Srinivasan, Promotion Officer IEEE, EBSCO on 23.10.2019 • Coaching for NET/SLET exams for Faculty in November 2019 •

Faculty Development initiatives

• Faculty Development Program on Data Analytics was organized in collaboration with IBM from 5.11.2019 to 10.11.2019 • Webinar series for faculty from 18.5.2020 to 27.5.2020 by Arts, Science Management studies departments • STTP on i3 Design Technologies 12th 14th Feb 2020 by Mechanical department • FDP on Next Generation Intelligence 20th May 2020 to 25th May 2020 by Departments of CSE, IT and EEE • Free Online FDP on Sustainable Planning and Construction 25.05.2020 to 29.05.2020 by CIVIL department • Free Online FDP on Drone view of Hotspots in Mechanical Engg.

25.05.2020 to 29.05.2020 by Mechanical Department

Outreach Programmes

- Free Eye Check up for Drivers In association with Inner Wheel Club,Chennai on 23.10.2019
- Providing sports Kit for Orphanage "Iraivi Foundation" by Iraivi Foundation on 04.12.2020
- Awareness program on effects of BP, Diabetes, Heart attack and Obesity for rural women by initial screening in Institute Premises on 3.3.2020
- Computer Literacy School Students For women in Annanur in the Institute premises on 3.3.2020
- Awareness on Fish farming and fish processing methods in Minnal Chithamur village on 3.3.2020
- Computer Literacy program by CSA faculty in Parivakkam Government School on 56.3.2020
- Awareness program on Women security conducted in Institute Premises on 5.3.2020
- Computer Literacy for School Students by CSA department faculty in Govt High School Karunagaracherry,Pattabiram on 9.3.2020
- Training in Maths and Physics for Plus Two Students. Distributed Formulae books for Ready reference to the students by Maths and Physics department faculty in Govt High School, Pattabiram on 12.3.2020

ISO Audits

- ISO Internal Audit I was conducted during 26th 27th July for all departments
- ISO Internal Audit II (Odd) was conducted during 24th 25th October 2019 for all departments
- The ISO Internal Audit I (Even Semester) was conducted for the Even semester and the documentation of the department activities as per Criteria wise had been verified on 23rd 24th January 2020
- Academic audit for 201920 was conducted on 22nd 23rd March 2020
- MRM Meeting was conducted on 13th November 2019
- ISO Internal Audit II (Even) was conducted on 25th 26th March 2020
- MRM Meeting was conducted on 29th April 2020

IQAC Meeting(Quarterly)

- 15th IQAC meeting conducted on 5th July 2019 and discussed Academic calendar along with induction of new members
- 16th IQAC meeting was conducted to discuss about the digital initiatives to be performed in SPIHER and about preparation of AQAR 1819 on 16th September 2019
- 17th IQAC meeting conducted on 25th October 2019 for the

	<p>review of RD activities and student development initiatives. • 18th IQAC Meeting held on 04.12.2019 for the review of Publications, Research Projects and patents, NPTEL/SWAYAM Examinations ,Teaching Learning Feedback Mechanism Analysis and AQAR 201819 Submission. • 19th IQAC Meeting held on 04.02.2020 for the review of Curriculum revision, Learning Management System, internship for Students and Extension Activity • 20th IQAC Meeting held on 16.04.2020 to review IQAC Online lectures on Quality Initiatives for faculty members and NAAC SSR Submission. • 21st IQAC Meeting held on 19.05.2020 to review the NAAC Quantitative and Qualitative metrics, Data collection, Verification and Compilation by Criteria Coordinators and Policy documents. • Board of Studies Meeting was conducted by all departments during 11th 15th March 2020 • Academic Council Meeting was conducted on March 2020 • Planning Monitoring Board Meeting was conducted on March 2020 • Board of Management Meeting was conducted on March 2020</p>
Research & Development initiatives	<p>•Meeting was conducted for Research Scholars on 5th July 2019 about the inclusion of Research ethics paper as course work for doctoral candidates under the leadership of Dean (RD) • Meeting was conducted for Research Supervisors on 8th July 2019 for the Research scholars about the number of publications to be published by scholars and the inclusion of compulsory Research Ethics paper in course work under the leadership of Dean (RD) • Research Methodology Workshop in the theme "Cognitive Framework to Edifice Sustainable research Culture" on 2829th January 2020 • Research Award Function 2019 2020 for the "Best researchers of SPIHER" was organised by the Research Forum on 18th November 2020 and 8 awards are awarded. • SPIHER Researgence Portal for the support of publications of SPIHER and for the welfare of the faculty members and researchers was inaugurated on 12th March 2020</p>
Induction Programme for Faculty Students	<p>• Induction programme was conducted on 1st July 2019 for the new faculty about the teaching practices, rules and</p>

regulations followed in the SPIHER campus. • First Year Inaugural Function was conducted on 4th July 2019, Chief Guest Dr. Kannan Girish, Medical Practitioner cum Psychiatrist • Orientation Programme for NonTeaching Faculty was organized in the month of Mar 2020

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body

Meeting Date

Board of Management

18-Aug-2021

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

Yes

Date of Visit

05-Jul-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

10-Mar-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description 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	17/09/2019
ME	CEP	Communication Systems	17/09/2019
BE	CE	Civil Engineering	16/09/2019
ME	SEP	Structural Engineering	16/09/2019
BE	BM	Biomedical Engineering	17/09/2019
ME	BMP	Biomedical Engineering	17/09/2019
BE	ME	Mechanical Engineering	17/09/2019
ME	AMP	Advanced Manufacturing Technology	17/09/2019
BE	CS	Computer Science and Engineering	17/09/2019
ME	CSP	Computer Science and Engineering	17/09/2019
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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	B.E Electronics and Communication Engineering	17/09/2019	Manufacturing Process218WMT04	17/09/2019
ME	M.E Communication Systems	17/09/2019	Communication Network Design118CEPT08	17/09/2019
BE	B.E-CIVIL	16/09/2019	Computer Aided Building Drawing(Practical)418CEP03	16/09/2019
BE	B.E Biomedical Engineering	17/09/2019	Biosignals and Systems318BMT03	17/09/2019
ME	M.E Biomedical Engineering	17/09/2019	Clinical Instrumentation Laboratory118BMPP01	17/09/2019
BE	B.E -MECH	17/09/2019	Internship I:318MEP03	17/09/2019
ME	M.E -Advanced Manufaturing Technology	17/09/2019	CAD/CAM Laboratory118AMPP01	17/09/2019

BE	B.E Electrical and Electronics Engineering	17/09/2019	Power Quality in modern Power system418EET06	17/09/2019
ME	M.E Power Electronics and Drives	17/09/2019	Wind Energy Conversion Syst ems318PEPT05	17/09/2019
BTech	B.Tech - Information Technology	17/09/2019	Fundamentals of Computing and Communicati on218CST04	17/09/2019
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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	PCB Designing Laboratory	17/09/2019
BE	Internship I	17/09/2019
BE	Wearable Systems	17/09/2019
BE	VLSI Design	17/09/2019
BE	Hospital Architecture	17/09/2019
BE	Lean Construction Concepts	16/09/2019
BE	Biomedical Optics	17/09/2019
BE	Advanced Reinforced Concrete Structures	16/09/2019
BE	Structural Health Monitoring	16/09/2019
BSc	Pharmaceutical Biotechnology	19/09/2019
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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	31/07/2019
ME	Communication Systems	31/07/2019
BE	Civil Engineering	31/07/2019
ME	Structural Engineering	31/07/2019
BE	Biomedical Engineering	31/07/2019
ME	Biomedical Engineering	31/07/2019
BE	Mechanical Engineering	31/07/2019
ME	Advanced Manufacturing Process	31/07/2019

BE	Computer Science and Engineering	31/07/2019
ME	Computer Science and Engineering	31/07/2019
BE	Electrical and Electronics Engineering	31/07/2019
ME	Power Electronic and Drives	31/07/2019
BArch	ARCHITECTURE	31/07/2019
BSc	Chemistry	31/07/2019
MSc	Chemistry	31/07/2019
BCA	Computer Science & Applications	31/07/2019
BSc	Computer Science	31/07/2019
MSc	Computer Science	31/07/2019
BA	TAMIL	31/07/2019
BA	ENGLISH LITERATURE	31/07/2019
MA	ENGLISH LITERATURE	31/07/2019
MSc	Physics	31/07/2019
BSc	Physics	31/07/2019
MSc	Physics	31/07/2019
BSc	Mathematics	31/07/2019
MSc	Mathematics	31/07/2019

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Certificate Course on Kaizen Robotics	17/07/2019	31
Certificate Course on Salesforce ADX 201	30/09/2019	43
Certificate Course on 3D Animation Tools in association with CDAC	28/01/2020	17
Employability Skill Training on Financial Literacy(ICT Academy-Reliance CSR)	10/12/2019	40
Online Internship program on Deep Reinforcement Learning using Python	30/03/2020	250
Certificate Course on Robotics	19/08/2019	42
Training on Machine Learning	20/01/2020	34

Training on 5G	03/03/2020	41
"Digital Image Processing" using MATLAB	09/09/2019	40
Deep Learning	24/02/2020	60
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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	BioMedical Engineering	21
ME	BioMedical Engineering	2
BE	Civil Engineering	121
ME	Structural Engineering	6
BE	Computer Science Engineering	103
ME	Computer Science Engineering	3
BE	Electronics and Communication Engineering	62
ME	Communication Systems	2
BE	Electrical and Electronics Engineering	90
ME	Power Electronics and Drives	1
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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
<p>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 IQAC as a quality consistence and quality enhancement measure. In</p>

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. 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
BBA	Business Administration	60	92	44
BCA	Computer Applications	120	194	110
BCA	Branch II- Data Science and Emerging Technologies	30	34	26
BCom	Commerce	240	297	223
BCom	Bank Management	60	73	44
BCom	Corporate Secretaryship	90	122	88
BSc	Computer Science	90	97	64
BSc	Visual Communications	30	35	22
BE	Computer Science	60	49	37
MBA	Management studies	30	26	22

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses

2019	2923	205	168	67	58
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2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
227	227	53	92	17	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)

es, Students mentoring system is available in the Institute. Mentoring is regularly given by student's counsellor and class advisors and it is recorded in the profile book of the student. On the advice of counsellors, if needed, medical officer may also provide necessary counselling. 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 counsellor 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 counselling is given by counsellors. 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
3128	227	1:14

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
227	227	Nill	39	69

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
2020	Dr B Shanthini	Professor	Best Researcher Award-Funded Project for 2019-2020 by St. Peter's Institute of Higher Education and Research on 3rd February, 2020
2020	Dr .P.Asha	Professor	ELITE Topper in

			NPTEL/SWAYAM
2019	Dr M Uma Raman	Professor	Dr. APJ ABDUL KALAM Award for Teaching Excellence, Marina Labs, Research Development
2019	Mrs.R.Anuradha	Assistant Professor	Dr. APJ ABDUL KALAM Award for Teaching Excellence, Marina Labs, Research Development
2019	Mrs.R.Anuradha	Assistant Professor	Best mentor from ESN Awards
2019	Dr N Srinivasan	Professor	International Innovative researcher in Transportation and Graph Theory, Rula Award 2019
2019	Dr N Srinivasan	Professor	Member of World Research Council.
2019	Dr G P Ramesh	Professor	TISLA Award (Best student Advisor) Honor Institution of Engineers India,Tiruvallur local center 2019
2019	Dr R Latha	Professor	Global Teacher Award" from AKS Education, New Delhi on 15th September 2019
2019	Dr P Asha	Professor	Mentor Certificate from NPTEL/SWAYAM

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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	EEE	August 2020	29/08/2020	12/09/2020
BE	ECE	August 2020	29/08/2020	12/09/2020
BE	CSE	August 2020	29/08/2020	12/09/2020
BCA	Computer Applications	August 2020	29/08/2020	12/09/2020

BBA	Business Administration	August 2020	29/08/2020	12/09/2020
BSc	Chemistry	Nov/Dec 2019	21/12/2019	04/01/2020
BArch	Architecture	Nov/Dec 2019	21/12/2019	04/01/2020
BCom	Commerce	Nov/Dec 2019	21/12/2019	04/01/2020
BE	Civil	Nov/Dec 2019	21/12/2019	04/01/2020
BE	BioMedical Engineering	Nov/Dec 2019	21/12/2019	04/01/2020
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
318	6054	5.25

2.6 – Student Performance and Learning Outcomes

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

<https://spiher.ac.in/curriculum-and-syllabus/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
CSU	BE	Computer Science and Engineering	17	16	91
PHP	MSc	Physics	9	9	100
CAU	BCA	Computer Applications	97	86	87
CMU	BCom	Commerce	286	256	90
CPU	BSc	Computer Science	52	48	92
CYU	BSc	Chemistry	16	16	100
ARU	BArch	Architecture	20	17	85
MEU	BE	Mechanical Engineering	36	32	89
CEU	BE	Civil Engineering	12	11	91
BMU	BE	BioMedical Engineering	7	7	100

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2.7 – Student Satisfaction Survey

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

<https://spiher.ac.in/wp-content/uploads/2021/08/SPIHER-Chennai-Students-Satisfaction-Survey.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.Vasantha Srinivasan Prabhakaran	Early Career Research Award	12/03/2019	Science and Engineering Research Board

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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
Karthick. K	1095	JRF (DST-SERB)
Balaji Naidu	1095	JRF-MoEFCC
M.Charumathy	1095	JRF-MoEFCC
Gopalakrishnan .D	1095	SPIHER
Nelofer. A	1095	SPIHER
Mary Siniya M.V	1095	SPIHER
Saranya A	365	SPIHER
Anupriya G	365	SPIHER
Irfana burvin K	365	SPIHER
Suresh . P	365	SPIHER

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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1095	MoEF CC	48.53	48.53
Minor Projects	2	AICTE	19.99	19.99
Minor Projects	2	SERB	0.75	0.75
Minor Projects	42	EDII	3	3
Minor Projects	42	EDII	3	3
Minor Projects	42	EDII	0.2	0.2

Minor Projects	14	EDII	2.5	2.5
Minor Projects	365	VEE EEE Technologies Solutions Pvt Ltd	1	1
Minor Projects	183	TNSCST	0.07	0.07
Minor Projects	183	TNSCST	0.07	0.07
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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 Inter Personal Skills with Meditation	Management Studies	02/07/2019
Seminar on Importance of Electromagnetic Radiation Safety IEEE Membership benefits	ECE	04/07/2019
Workshop on Presentation skills	Management Studies	10/07/2019
Seminar on Public Speaking and Communication Development	ECE	18/07/2019
Seminar on Creo 2.0 - An Overview	MECH	22/07/2019
Seminar on 'Product Design Development - An Overview'	MECH	03/07/2019
Seminar on Fermentation and Freeze dryer technique	Biochemistry, Biotech and Microbiology	24/07/2019
Workshop on Emotional Intelligence	Management Studies	01/08/2019
Workshop on "Biodiversity act and its impact on society"	Biochemistry, Biotech and Microbiology	08/08/2019
Seminar on "Opportunities and challenges in Healthcare Industries"	BME	12/08/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best	Dr R Rani	Indian	03/02/2020	Teacher

Researcher Award-Funded Project for 2019-2020	Hemamalini	Spectrophysics Association		
Award for Women Educationist Excellence	Dr.B.Shanthini	Global MultiDisciplinary Research and Academic Foundation, Chennai, 29th Dec 2019	29/12/2019	Teacher
Life Time Achievement	Dr.N.Srinivasan	IARDO Academic Excellence Award - 2019, International Conference Academic Excellence Excellence Award on Recent Innovation and Interdisciplinary, SNDT Womens University , Churchgate Campus, Mumbai	07/12/2019	Teacher
Best Project -Titanic- Machine Learning from Disaster	Heflin stephen Raj	IBM Software Lab	01/12/2019	Student
Students Academic Award	D.Robert Sam Raj	IEI Tiruvallore Local Centre, TISLA Ambition Achievement Award 2019, 16th Nov 2019	16/11/2019	Student
Research Advisor Excellence Award 2019	Dr. R.Rani Hemamalini	Global Multi Disciplinary Research and Academic Foundation, Chennai	07/11/2019	Teacher
Project 1st Prize - SPIHER Innovation Challenge 19	S.Hari Krishna	Institution Innovation council, SPIHER	14/10/2019	Student
International Innovative researcher in Transportation and Graph Theory, Rula	Dr.N.Srinivasan	Rula Award Winner 2019, Research Peace Awards, International Innovation	15/07/2019	Teacher

Award Winner 2019				
Best Researcher Award-Publications	Dr.P.Periyasamy	SPIHER	26/07/2019	Researcher
Best Researcher - Funded Project Award 2018-2019	Dr.P.Vasantha Srinivasan	SPIHER	26/06/2019	Researcher
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Technology Business Incubator, St. Peters Engineering College, SHIPER	Mr.Balaji Naidu	M/s. ECRREDE Technology , Chennai	M/s. ECRREDE Technology , Chennai	Waste Recycling of different municipal garbage	16/03/2020
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Management Studies	4
Electronics Communication Engineering	5
Electrical Electronics Engineering	4
Computer Science Engineering	14
Physics	2
Mechanical Engineering	7
Information Technology	1
Computer Applications	2
Computer Science	1
Chemistry	1

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	35	0.65
International	Bachelor of Business Administration	16	0.41
International	Bio-Medical	21	0.47

International	Biotechnology	17	1.8
International	Chemistry	6	0.4
International	Civil Engineering	18	0.38
International	Computer Science and Engineering	17	0.5
International	Computer Science and Application	11	0.26
International	Electronics and Communication Engineering	36	0.8
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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
Biomedical Engineering	6
Bachelor of Architecture	2
Information Technology	1
Computer Science and Application	2
Mechanical Engineering	45
Civil Engineering	8
Electrical and Electronic Engineering	3
Computer Science Engineering	9
Mathematics	1
Physics	11
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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
BIO TANK	Published	202041009694	06/03/2020
BELT CONVEYOR METAL DETECTOR	Published	202041006468	14/02/2020
BIO-BASED NANOFLUID HEAT TRANSFER MEDIUM	Published	201941054670	31/12/2019
INTRA-LAYERED HYBRID NATURAL FIBER REINFORCED COMPOSITES	Published	201941043896	30/10/2019
LEMON GRASS OIL COMPOSITION –DIESEL BLEND AS ALTERNATIVE FUEL FOR DIESEL ENGINE	Published	201941048053	25/11/2019
REINFORCED COMPOSITE MATERIALS FOR ARTIFICIAL LIMB	Published	201941043895	30/10/2019

MOBILE APPLICATION TO EFFECTIVELY MONITOR SEWAGE SYSTEM IN REAL TIME	Published	201941035712	05/09/2019
SMART HELMET SYSTEM FOR DETECTING ALCOHOLIC PERSON AND HALTING THE VEHICLE	Published	201941044325	01/11/2019
E-SAT METHOD TO SHUN TOLL PLAZA WAITING TIME	Published	201941039057	27/09/2019
NATURAL AND CHEMICALLY MODIFIED TERMINALLIA PALLIDA AS A NOVEL SORBENT FOR THE REMOVAL OF LEAD (II) FROM AQUEOUS SOLUTION AND INDUSTRIAL WASTEWATER	Published	201941039405	30/09/2019
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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
Eatm: Hybrid Facial Feature Extraction Algorithm For Enhancing Atm Security System	L.William Mary, M.Kannan, K.HemaAishwarya, T.Ajisha.	International Journal of Emerging Technologies and Innovative Research	2019	0	St. Peters Institute of Higher Education and Research	Nil
Molecular Structure, Vibrational, Electronic, Nbo And Homo-Lumo Analysis Of Nizatidine By Experimental And Theoretical	Ganeshvar P.S., Guna sekaran S., Gnanasambandan T., Viswanathan K.	Journal of Advanced Research in Dynamical and Control Systems	2019	0	St. Peters Institute of Higher Education and Research	Nil

1 Approach						
Microstructural Investigation Of Is513Cr3 By Comparing With Plain Coolant, Ice, Ln2 Gas In Single Point Incremental Forming	Vijayakumar M.D., Gopalaraman G., Dhinakaran V.	International Journal of Recent Technology and Engineering	2019	0	St. Peters Institute of Higher Education and Research	Nil
Linear Quadratic Regulator For Three Interacting Cylindrical Tank Control	Anbumani K., Hemamalini R.R.	International Journal of Recent Technology and Engineering	2019	0	St. Peters Institute of Higher Education and Research	Nil
Electrical Utilizations Well-Ordered By Smartphone Using Smart Huis Through Android Studio Optimization	Annamalai R., Ancy S., Cornelius K.	International Journal of Recent Technology and Engineering	2019	0	St. Peters Institute of Higher Education and Research	Nil
Wavelet Diversity: A Novel Antenna Diversity Scheme For Multipath Fading Channel	G. Thavaselan, R. Hemamalini	International Journal of Engineering and Advanced Technology	2019	0	St. Peters Institute of Higher Education and Research	Nil
Modified Cascaded Switched Diode Multilevel Inverter With Multiple Outputs And Reduced	Kishore C.K., Balaji K., Madhavan J.	Proceedings of 1st International Conference on Innovations in Information and Communication Technology,	2019	1	St. Peters Institute of Higher Education and Research	2

Harmonic Content		ICIICT				
Improved Enhanced Dbtma With Contention-Aware Admission Control To Improve The Network Performance In Manets	Sivaram M., Yuvaraj D., Mohammed A.S., Manikandan V., Porkodi V., Yuvaraj N.	Computers, Materials and Continua	2019	2	St. Peters Institute of Higher Education and Research	3
Mechanical And Microstructural Properties Of Metakaolin Geopolymer	Kalaiyarasi A.R.R., Partheeban P.	Emerging Materials Research	2019	3	St. Peters Institute of Higher Education and Research	6
Alternative Splicing And Insect Ryanodine Receptor	Surajit De Mandal, Muhammad Shakeel, Vasantha Srinivasan Prabhakaran, Sengodan Karthi, Xiaoxia Xu, Fengliang Jin	Archives of Insect Biochemistry and Physiology	2019	3	St. Peters Institute of Higher Education and Research	6

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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Eatm: Hybrid Facial Feature Extraction Algorithm For Enhancing Atm Security System	L.William Mary, M.Kannan, K.HemaAishwarya, T.Ajisha.	International Journal of Emerging Technologies and Innovative Research	2019	Nill	Nill	St. Peters Institute of Higher Education and Research
Molecular Structure,	Ganeshvar P.S., Guna	Journal of Advanced	2019	21	3	St. Peters Institute

Vibrational, Electronic, Nbo And Homo-Lumo Analysis Of Nizatidine By Experimental And Theoretical Approach	sekaran S., Gnanasambandan T., Viswanathan K.	Research in Dynamical and Control Systems				of Higher Education and Research
Microstructural Investigation Of Is513Cr3 By Comparing With Plain Coolant, Ice, Ln2 Gas In Single Point Incremental Forming	Vijayakumar M.D., Gopalaraman G., Dhinakaran V.	International Journal of Recent Technology and Engineering	2019	20	Nill	St. Peters Institute of Higher Education and Research
Linear Quadratic Regulator For Three Interacting Cylindrical Tank Control	Anbumani K., Hemamalini R.R.	International Journal of Recent Technology and Engineering	2019	20	Nill	St. Peters Institute of Higher Education and Research
Electrical Utilizations Well-Ordered By Smartphone Using Smart Huis Through Android Studio Optimization	Annamalai R., Ancy S., Cornelius K.	International Journal of Recent Technology and Engineering	2019	20	Nill	St. Peters Institute of Higher Education and Research
Wavelet Diversity: A Novel Antenna Diversity Scheme For Multipath Fading Channel	G. Thavaselan, R. Hemamalini	International Journal of Engineering and Advanced Technology	2019	18	Nill	St. Peters Institute of Higher Education and Research

Modified Cascaded Switched Diode Multilevel Inverter With Multiple Outputs And Reduced Harmonic Content	Kishore C.K., Balaji K., Madhavan J.	Proceedings of 1st International Conference on Innovations in Information and Communication Technology, ICIICT 2019	2019	Nil	4	St. Peters Institute of Higher Education and Research
Improved Enhanced Dbtma With Contention-Aware Admission Control To Improve The Network Performance In Manets	Sivaram M., Yuvaraj D., Mohammed A.S., Manikandan V., Porkodi V., Yuvaraj N.	Computers, Materials and Continua	2019	40	3	St. Peters Institute of Higher Education and Research
Mechanical And Microstructural Properties Of Metakaolin Geopolymer	Kalaiyarasi A.R.R., Partheeban P.	Emerging Materials Research	2019	7	7	St. Peters Institute of Higher Education and Research
Alternative Splicing And Insect Ryanodine Receptor	Surajit De Mandal, Muhammad Shakeel, Vasantha Srinivasan Prabhakaran, Sengodan Karthi, Xiaoxia Xu, Fengliang Jin	Archives of Insect Biochemistry and Physiology	2019	66	6	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	47	440	137	55
Presented papers	12	1	2	4
Resource persons	2	6	12	22

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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.Gurusami K	"Development of Heat Treatment Procedure for ASTM A351, Grade CF8M Stainless Steel to enhance Material Properties of the Valve Castings".	M/s. Balaji Engineering Works, Ranipet, Tamil Nadu	35000
Dr.Sayeeda Sultana	Quality testing of Chemicals	M.V.Krishanaaram Laboratories Chemicals Co. Ch.No.060765	10000
Dr.G.P.Ramesh	Braille based Communication and Translation Glove for Deaf and Blind People	Chipthing Lab Ch.No.395137	221000
Dr.A.R.R.Kalaiarasi	Steel structural design for workshop building.	AM Engg Works Ch.No173451	77000
Dr.A.R.R.Kalaiarasi	Labour contract for plastering work.	Saviour Contrction Consultant Ch.No.601692	55000
Dr.A.R.R.Kalaiarasi	Interior design for office building.	AM Engg Works Ch.No173453	33000
Shoba KB	CONCRETE MIX DESIGN	Ananda Selvan S / Gouttaman Ananda Selvan Ch.No.524481	27500
Sampath P	Non-destructive testing of stainless steel hand rails.	Factories Needs Incorporation Ch.No.870389	27500
Babu Kamaraj	Testing of Chemicals	Silambarasan, Jade Builders Ch.292206	27500
Dr.Gurusami K	"Development of Welding Procedure to repair of Critical Valve Casting Defects for Grade 1B - ASTM A890, CD4MCU Alloy".	M/s. Balaji Engineering Works, Ranipet, Tamil Nadu.	28000

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

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Dr.C.Vijai, Commerce	Training on Goods and Service Tax	VEE EEE Technologies Solution P LTd	220000	48
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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
Honey production training programme	St. Peters Institute of Higher Education and Research	3	30
Mushroom cultivation training programme	St. Peters Institute of Higher Education and Research	3	30
Fisheries training programme	St. Peters Institute of Higher Education and Research	3	35
Vermicompost training programme	St. Peters Institute of Higher Education and Research	3	30
Awareness program on Food Adulteration	St. Peters Institute of Higher Education and Research	8	75
Awareness program on Global Warming	St. Peters Institute of Higher Education and Research	8	75
Women Empowerment	St. Peters Institute of Higher Education and Research	9	90
Hands on Training on Plumbing work for Village People	St. Peters Institute of Higher Education and Research	6	65
Awareness Program on Fire Safety for School Students	St. Peters Institute of Higher Education and Research	7	75

Free Eye Check up for Drivers	St. Peters Institute of Higher Education and Research, In association with Inner Wheel Club, Chennai	5	50
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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
Swachh Bharat Abhiyan	Certificate of Appreciation	Thirumanam Village- Village officer, TamilNadu, India	20
Eye Camp	Certificate of Encouragement	Sorancheri - Village President, TamilNadu, India	65
Concept Development for Human Excellence	Certificate of Human Excellence	Banaveduthotam - Village President, TamilNadu, India	50
Computer Literacy	Certificate of Appreciation	Principal, Govt. School, Parivakkam, Tamil Nadu, India	120

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Art from waste and alternate to plastic	SPIHER	Creating awareness -Art from waste and alternate to plastic	5	180
Awareness on Fish farming and fish processing methods	SPIHER	Creating awareness on Fish farming and fish processing methods	4	72
Awareness program on effects of BP, Diabetes, Heart attack and Obesity for rural women by initial screening.	SPIHER	Importance of health	3	55

Awareness Program on Fire Safety for School Students	SPIHER	Created awareness on Disaster Management Fire Safety	3	82
Awareness program on Food Adulteration	SPIHER	Created awareness on Food Adulteration	3	76
Awareness program on Global Warming	SPIHER	Method of keeping house clean and surroundings in order to reduce Global Warming	2	58
Awareness program on Women security	SPIHER	Created awareness on Women security	3	76
Awareness Programme on Beat Plastic Pollution/World Environment Day	SPIHER	Created awareness on Beat Plastic Pollution/World Environment Da	3	75
Awareness Programme on Disaster Management	SPIHER	Created Awareness Programme on Disaster Management	3	55
Awareness Programme on Organ Donation	SPIHER	Creating awareness on Organ Donation	4	70

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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
Collaborative research and extension activity - Student Development	Students	ARMATS Biotek Training and Research Institute, Chennai	7
German language classes - Student Development	Students	Foreign Language Centers, Chennai	14
Workshop on STAADPro and Tekla - Student Development	Students	CADD India Research and Development	1
Certification in Tally - Student Development	Students	NSIC	45
Internship	Students	Expert Hub	4

Program on Internet of Things			
Project training	Students	Virtual Techz	6
Data Science with Python	Faculty	ICT Academy	3
Teaching Techniques with Gamification -Faculty Development	Faculty	ICT Academy	2
Staff Training on Wireless Communication	Faculty	VEE EEE Technologies	3
One week Hospital Training at Vijaya Hospital	Students	Vijaya Hospital, No.434, N.S.K.Salai, Vadapalani, Chennai -6000 26	7
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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
On the Job Training	Oracle Gro undbreakers Yantra 2019	ICT Academy	13/07/2019	13/07/2019	Student
On the Job Training	Introduction to Cloud Computing	ICT Academy	11/07/2019	12/07/2019	Student
Internship	Field visit was conducted in association with ARMATS Biotek Training and Research Institute, Chennai	ARMATS Biotek Training and Research Institute, Chennai	03/06/2020	03/06/2020	Student
On the Job Training	Hands on training course on Bio-organic farm visit	ARMATS Biotek Training and Research Institute, Chennai	03/06/2020	03/06/2020	Student
On the Job Training	Workshop on Robotics	Virtual Techz	18/09/2019	18/09/2019	Student

On the Job Training	Entrepreneurship Development Programme on Industry 4.0	EDII, Ahmedabad	16/09/2019	31/10/2019	Student
On the Job Training	Certificate Course on STAAD Pro	CADD Design Technologies, Coimbatore	23/09/2019	29/09/2019	Student
On the Job Training	Workshop on Android Development	Virtual Techz	24/09/2019	24/09/2019	Student
Internship	Cultural Immersion Program	Assumption University, Thailand	24/11/2019	30/11/2019	Student
Internship	Internship Program on Internet of Things	ExpertsHub	23/03/2020	30/03/2020	Student

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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
Palms Connect LLC	28/08/2019	Collaborative Research on Nano-Sensor Design for Soil Nutrient Testing	1
Palms Connect LLC	28/08/2019	Guest Lecture on Career Opportunities in Biomedical Engineering	40
CADD/CAMM Solutions	28/08/2019	Training	35
ICT Academy	12/09/2019	Online Training Program on Future is Here (ICT Academy)	20
IBM, Chennai	25/09/2019	Degree Course -BCA -Branch II -Data Science Emerging Technologies	26
SPIHER LEMALABS Technology	17/07/2019	Industrial Training and Visits Research, Placement, Research Development, Skills Development, Guest	102

		Lecture, Faculty Development Programme.	
Gtech	24/01/2020	Tally Course	484
Assumption University, Thailand	26/11/2019	training, student and faculty exchange	29
ARMATS Biotech Training Research Institute (ABTRI), Chennai	12/09/2019	Traning, Internship, Research and Guest lecture	45
ARMATS Biotech Training Research Institute (ABTRI), Chennai	12/09/2019	Field visit was conducted in association with ARMATS Biotech Training and Research Institute, Chennai	55
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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
80	63

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	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

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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	68160	14214855	70	7210	68230	14222065
Reference Books	706	1099638	Nill	Nill	706	1099638
Journals	72	136539	Nill	130000	72	266539
e-Journals	1892	1021746	Nill	1041662	1892	2063408
Digital Database	10966	13570	Nill	13570	10966	27140
CD & Video	2553	Nill	Nill	Nill	2553	Nill
Library Automation	1	800000	Nill	11800	1	811800
Others(s pecify)	3	21500	Nill	18500	3	40000
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.A.R.R.Kalaiyarasi	Estimation of residential building with flat and pitched roof	MS PPT	15/09/2019
Dr. S. Pushpa	Introduction to Python process Microprocessor Problem Formation in AI	Video	23/01/2020
Ms.R. Gomathi	DIT FFT	youtube video	10/02/2020
Ms.T.Anne Ramya	Wireless Wide area Network.	Google class Room PDF	21/04/2020
Mrs. V. Elanangai	Solid state drives	Powerpoint Presentation	19/04/2020
Dr.R.Latha	Data Structure	Data Structure	10/01/2020
Dr.S.Brindha	Python-File Handling , Exception, Classes	PPT Video	10/04/2020
Dr.N.Srinivasan	Introduction to Calculus I II	Video Lecture - You Tube	10/02/2020
Rasheeda Madani	Video lecture: Story Planning and Structure Part 2	YouTube Google Classroom	08/04/2020

Dr. S. Stella Mary	Laser Fundamentals	Video	18/01/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwid th (MBPS/ GBPS)	Others
Existin g	895	12	100	6	4	6	24	1	0
Added	2	0	0	0	0	0	0	0	0
Total	897	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/UCLLSVO_rTmPf0fBN9FqEV5kQ

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
420	340	74	49.5

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, equipment, 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 equipment 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 equipment 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 W i-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.

<https://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	Institutional Scholarship	51	1871500
Financial Support from Other Sources			
a) National	NGOs	22	299336
b) International	0	Nil	0

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Personality Development	05/09/2019	200	Mr. Zenob, CMSDI
Interview Techniques	10/10/2019	800	Mr. B. Manikandan, Hr, Manager, Vajro Softwares.

How to present views in Group Discussion	14/02/2020	300	Mr. R. Sathishraj is the CEO of E-Crusaders
Bridge Course	02/08/2019	150	Dept.of English, SPIHER
Language Lab- Lingua Skill	05/08/2019	750	Cambridge Academy
Yoga Workshop	22/10/2019	550	Art of Living, Chennai
Responsibility and Accountability in a Team	25/07/2019	220	M-Cube Pvt.Ltd
Conflict Management	21/12/2019	225	Smart Training, Chennai
Decision Making Skills	02/01/2020	220	NSIC ,Chennai
Women Empowerment	27/02/2020	200	Ms.Shobha Rani ,Inspector of Police, Avadi

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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Career Counseling	Nill	423	Nill	178
2019	Competitive examinations	62	Nill	5	Nill
2019	UPSC Coaching	25	Nill	Nill	Nill
2019	Banking Exam Coaching	70	Nill	Nill	Nill
2019	Tally plus GST	Nill	500	Nill	Nill
2019	CSIR NET/SLET coaching	50	Nill	1	Nill
2019	Awareness programme on Gate	50	Nill	Nill	Nill

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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
12	12	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
FLIPKART QSPIDERS SUTHERLAND CSS CORP PVT LTD SVS INFOTECH AIRTEL TECH MAHINDRA MALAR ELECTRICALS SIDHARTH FOUNDATIONS AND HOUSING	372	131	AKAS MEDICAL EQUIPMENT EMEDEVENTS INDIA PVT LTD A.P STATE EXCISE DEPT AMAZON EVVO SOLAR SYSTEM (TECHNICAL ENGINEER) VALEO Volvo ENGINEERING PVT LTD. PRAGITI DMI ICICI BANK CSE LTD, NUN GAMBAKKAM, CHENNAI TOPP ANMERRILL TECHNOLOGY SERVICE PVT. LTD.,C	207	45
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.SC	COMPUTER SCIENCE	UNIVERSITY OF MADRAS	M.SC (IT)
2019	2	B.SC	COMPUTER SCIENCE	SPIHER	M.SC(CS)
2019	2	B.E	MECHANICAL	University of Greenland, UK	M.S
2019	1	B.E	MECHANICAL	De Montfort University, Leicester, England	M.S

2019	1	B.E	MECHANICAL	Loyalist College International Center, Canada	M.S
2019	1	B.E	MECHANICAL	VEL'S UNIVERSITY	MARINE ENGINEERING
2019	1	BSC	CHEMISTRY	GARDEN CITY UNIVERSITY	M.SC
2019	1	BSC	CHEMISTRY	Ponnusamy Nadar College of Education	B.ED
2019	1	MBA	MANAGEMENT STUDIES	SPIHER	PH.D
2019	5	AMT	B.E	SPIHER	M.E
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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
GMAT	1
GRE	1
Any Other	1
Any Other	1
Any Other	1
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Annual Sports	Institution	750
Cultural Day	Institution	750
Women's Day Celebration	Institution	250
Independence Day Celebrations	Institution	350
National Youth Day	Institution	320
Pongal Celebrations	Institution	1000
World Environment Day	Institution	450
Teachers Day	Institution	100
Nightingale Day	Institution	60
World Water Day	Institution	200
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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
2019	ABDUL KALAM INTERNATIONAL AWARD	International	Nil	1	SP17CAU003	AJITHKUMAR V
2019	FOURTH PLACE IN FITNESS COMPETITION	National	1	Nil	SP17ENU001	B.AKASH
2019	ACHIEVEMENT AWARD	National	Nil	1	SP19BAP006	JEVIN .J
2019	ACHIEVEMENT AWARD	National	Nil	1	SP19BAP013	PRAVEEN.A
2019	ACHIEVEMENT AWARD	National	Nil	1	SP19BAP011	MOHAN PRASAD.S
2019	ACHIEVEMENT AWARD	National	Nil	1	SP17BAU021	SAMUEL.S
2019	ACHIEVEMENT AWARD	National	Nil	1	SP17BAU003	ANAGHA P ADMANABHAN
2019	FIRST PLACE IN KARATE	National	1	Nil	SP19CMU033	S.TAMILMANI
2019	SECOND PLACE IN QUIZ	National	Nil	1	SP19BAP008	MAGESH M.A
2019	BEST REVIEWER AWARD	National	Nil	1	SP19BAP005	HARI KUMAR .D
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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)

The institution has an active student council that operates on campus and is comprised of representatives of all classes. Student representatives from various department clubs and associations are members of the student council. Students with high attendance, good conduct, academic excellence, and outstanding leadership qualities are usually identified and selected as representatives of the student council. At the class level, representatives are elected, and then these class representatives elect officials of the Student Council. The members of the Student Council hold regular meetings with deans and department heads. During these interactions, important topics related to academic and other activities (such as capacity building programs, student symposiums, and placement) are discussed. Sports, culture and outreach activities. Class representation system helps to hold class committee meetings and coordinate the smooth progress of various academic activities by faculty and staff. The monthly meeting of class representatives is held during the semester. It plays an important role in the teaching, learning, and support services that testing agencies provide to students. Student Council is

established at the beginning of each school year. The Institute Council is a dynamic and dedicated group of young students who assume their responsibilities for the well-being of their peers and the progress of the university with a positive attitude. The council organized many programs, competitions, and events under the guidance of IQAC. A member of the student council is also a member of the IQAC committee, which shares opinions on various events happening on campus. The various student activities carried out through the board of directors and various Institute clubs can give full play to the talents of students and provide different platforms to demonstrate their management and leadership qualities. The members of the student council are also involved in the organization of cultural and sports activities at the Institute and national levels. The student council members also participate in all social-related activities such as NSS, national mission projects such as Swachh Bharat, legal and medical camps, and help the Institute and its departments celebrate national and international important days to unify the concept of solidarity. Students' opinions on the appropriate availability of library books, journals, and other resources are regularly obtained from members of the student council some students are also members of the library committee.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Institute has a registered Alumni association and the alumni play an active role and contribute to the growth of the institution. The association acts as a connecting forum to develop links between graduates and students with a variety of facilities development. Annual Alumni meets are organized to have an interactive session which enhances students' knowledge based on the alumni experiences in Industries

5.4.2 – No. of registered Alumni:

732

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

278360

5.4.4 – Meetings/activities organized by Alumni Association :

The Alumni shares its experiences with students and mentors and motivates them for their professional development of different domains. The Alumni also help in providing internships to institutional students. The Alumni helped many students achieve their goals. The Alumni contribute to the review and development of the curriculum by participating in the Board of Studies and suggest innovative curriculum and pedagogy matching the Industry standards and requirements. Alumni also participates in many events of the Institution and helps to promote the Alumni association through several contributions at different levels. They provide their experience of skills and tendencies, knowledge and corporate work culture, and share their experiences.

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)

UGC (Deemed to be Universities) Regulations 2019 and Memorandum of Association (MoA) have prescribed structured statutory bodies like Board of Management, Planning and Monitoring Board, Academic Council, Finance Committee and Boards of Studies in each discipline with academic and administrative officers like

Vice Chancellor, Registrar, Controller of Examinations, Finance Officer, Directors, Deans, Heads of the Departments, Deputy Controller of Examinations and Deputy Finance Officer for decentralised and hierarchical decision making and participatory management in the affairs of the Institute. Vice Chancellor is supported by Advisors, Directors, Deans, Heads of various departments and the faculty members, involved in the decision-making process at their levels to ensure decentralization. The administrative and academic responsibilities are decentralized to ensure effective implementation and monitoring of various policies, regulations and guidelines at various levels. The Institute has a well laid down structure supported by qualified and competent teams to review the progress of various functions and accordingly take necessary timely action for ensuring excellence. Administrative team including the Registrar, Deans and Heads of the Departments are from the academics. Key decision-making statutory bodies of the institute have nominees from faculty for ensuring participatory management. Teaching departments function with autonomy in their academic and research activities in accordance with the decisions of the statutory bodies. Development of curriculum, delivery system in teaching learning process with online support, monitoring and evaluating students performances continuously, guiding students in research, collaboration in research, organising seminars and conferences, publishing research papers and developing institution-industry interaction are the activities of the Departments and the faculty members proves academic autonomy. Frequent meetings and training programmes help the Faculty and administrative staff to understand their role, responsibility and accountability in their jobs. Regular meetings of head of the department with faculty and regular class committee meetings encourage departmental participation in continuous academic improvement. Decentralized systems of governance are advocated and practiced to ensure that the leadership moves closer to the key stakeholders and facilitates a better chance for taking part in the governance. Student support and academic activities have been decentralized and managed by the Deans of faculty and Heads. This decentralized governance model is evident in every sphere as each department/faculty functions as a separate sub-unit, in deciding and implementing the student-centric programmes and activities with functional autonomy. The meeting of the Vice-Chancellor with all faculty members at the beginning of every semester is indeed a reflection of the participative style of the management. Such meetings provide a platform for open discussion with the teaching and non-teaching staff and it encourages the involvement of the staff for the improvement of effectiveness and efficiency of the institutional process. Students representatives of the class committees highlight the academic and issues related to their class and participate in framing assessment schedule for the internal assessment etc. Alumni representatives in various forum give feedback on existing syllabus based on the requirements of higher studies in foreign Universities and Industries. In short, the Institute instils sense of belongingness and sense of involvement in teaching, non-teaching staff and students.

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
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.

Industry Interaction / Collaboration

Memorandum of Understanding with leading institutes and industries helps in a lot of Industry and Research interaction. 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. Efforts have been made to globalize and improve perception through signing of various MoU's with Universities abroad. 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. Many students across various engineering disciplines completed their industry internship in various core industries. MoUs with the Texas Instruments, IBM, TCS Redhat Linux and Siemen's Healthcare facilitated in promoting laboratories

in association with them. Industry Institute interaction has been strengthened with more MoU's for improving Industrial Internships, visits and placements. Infrastructure development and promotion of various activities such as patenting, consultancy services offered has been a hallmark.

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.

Library, ICT and Physical Infrastructure / Instrumentation

The Institution has a sprawling campus of 32.26 acres with built up area of about 20000sq-m. Class rooms, laboratories, seminar halls, well furnished, spacious, ventilated and dedicated Wi-Fi enabled 92 classrooms, with most of the departments being facilitated with ICT gadgets like Smart Boards/Laptops/Projectors etc. Well ventilated Drawing Halls for Engineering students and spacious studios for Architecture department have been established. The Institute has Central Library, P.G. Library and Digital Library and department libraries. Total area of the library is 2100 Sq.m area with a seating capacity of 150. Library has excellent computing infrastructure with AUTOLIB , On-line Public Access Catalogue (OPAC) facilities, more than 91,325 volume of books, 10827 e-Books, journals, thesis, back volumes and non-book materials. Subscribed to various e-journals from IEEE, ASME, ASCE and DELNET. Has Institutional membership with INFLIBNET, e-Shodh Sindhu, Shodh Ganga, British Council, American Library, CSIR-SERC Library that provide enhanced access to online resources. Information Communication Technology (ICT) is the catalyst for change i.e change in teaching methods, learning approaches and scientific research. Interactive Smart boards have been introduced for effective teaching learning. Faculty members also use LCD Projectors, Video Conferencing, A-view, Google quiz and ICT enabled tools such as Google classroom, Kahoot, Plickers etc for handling online classes. Also, Zoom meet, Google meet and other online delivery modules are used to deliver online lectures for the students. case studies, video lectures are also shown to the students for strengthening the theory concepts learnt in class

Research and Development

SPIHER aims to help its faculty members, research personnel and other

stakeholders to achieve the excellence in 'Research, Innovation and Entrepreneurship' contributing to institutional and societal uplift. The research facilities in the Institute are upgraded to constantly promote research. Research facilities are available in many areas like materials characterization such as bio, biological, pharmaceutical, polymeric, rubber, crystalline, superconducting, photonic, nano materials, etc, advanced manufacturing, crystal growth and software for modelling and simulation studies. Some of the major research facilities set up in the institution are Central Instrumentation Centre, Technology Business Incubator, Insect Toxicology Laboratory, Biomedical Instrumentation Lab, Industrial Automation laboratory with Technocrat, Automotive Electronics and Electric Vehicle design laboratory with Expert Hub, Robotics System Learning Lab, Advanced Material Centre, IBM Software lab for Emerging technologies in Association with IBM, Solar PV Design and Installation Laboratory, Advanced Surveying and Mapping Laboratory and Advanced Microprocessor and Microcontroller laboratory for the fabrication of instruments for research studies. The Research activities of SPIHER is monitored, motivated and guided by the Research forums such as Board of Research, Research Advisory Committee, Institute Academic Integrity Panel. The research forum assists the faculty to get Grants for research projects, Seed money for their initial research, to get consultancy works, patent publications and encourage more publications in reputed journals by announcing Research awards for them.

Examination and Evaluation

Examination Reforms: For continuous assessment and end semester 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 posted through ERP online.

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 improvement where ever required. Systematic and well organized procedures are followed to address student's grievances relating to examination by the Grievance Redressal Committee. In the pandemic period, online Examination is introduced and evaluation of Answer scripts also done through Google drives containing answer scripts, without any delay to their continual of education.

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.

Curriculum Development

St.Peter's Institute of Higher Education and Research (SPIHER) has well defined procedures to design new curricula and amend the existing curricula. For this purpose, the apex body is the Academic Council supported by Board of Studies of the concerned Department with inputs from all the faculty members. The faculty members identify and assess the requirements relevant to the developmental needs while designing the curricula of the programmes. The process is done by involving the experts from academia and industry taking into account the feedback obtained from various stakeholders of the institution such as students, alumni, parents, employers and faculty members. The inputs of faculty members based on the structured feedback obtained on syllabus is taken up for discussion in the Board of studies and placed before Academic council for discussion and approval from the Board of Management. The curriculum of the various programmes has been designed on the lines of the AICTE model curriculum and curricula of other statutory bodies as well as higher learning institutions from India and abroad

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

E-governance area	Details
Finance and Accounts	The software obtained from G S Technologies and Palpap is used for Finance and accounts
Student Admission and Support	The software obtained from Anadoc Software is used for Student Admission and Support
Administration	SPIHER
Planning and Development	Smart Point Technologies and Palpap
Examination	University Examinations are conducted in association with Wheebox due to

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
2020	Mr. C. Sakthivel	NPTEL Course on Organometallic chemistry	Nill	1000
2020	Dr.R.LATHA	NPTEL-AICTE FDP on The Joy of Computing using Python - Online	Nill	1100
2020	Dr.P.Asha	AICTE Short Term Course on advanced concrete technology	Nill	1000
2019	Dr.R.Rani Hemamalini	MOEF-Project Presentation on 23.10.2019	Nill	10000
2019	Ms.A.Vanitha	International Conference on Advances in Chemistry with specific reference to catalysis Sensors Drug Delivery and Energy Materials, ICACSEM -2020	Nill	3000
2019	Dr. B. Shanthini	FDP on Data Analysis using R Solutions	Nill	500
2019	Dr. K. Thirunadana Sikamani	6th International Conference on Advanced Computing and Communication Systems (ICACCS 2020)	Nill	6000
2019	Dr. Radhakrishnan. N	MSME- Consultative workshop for Incubators (Ideas for New	Nill	11731

		India-2020)		
2019	Ms.S.Cynthiya Margaret	International Seminar on Research Trends in applied mathematics,VIT,Cheennai	Nill	750
2019	Ms.Rasheeda Madani	International Conference On Paraspheres Of The Literary Mindscape: Aesthetics And Trends	Nill	2000
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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)
2019	Workshop on IoT	Nill	19/09/2019	21/09/2019	17	5
2019	Kaizen robotics Program in association with Lema Labs	Nill	17/07/2019	25/07/2019	4	2
2019	Training Programme on STAADPRO by CAD TECHNOLOGIES	Nill	23/09/2019	28/09/2019	6	3
2020	Nill	Workshop on "Biodiversity act and its impact on society"	08/08/2019	08/08/2019	34	8
2020	Nill	Awareness programme on Safety measures for the well being of women	05/03/2020	05/03/2020	45	8
2020	Two Day	Nill			102	24

	Research Methodology Workshop On Cognitive Framework to Edifice Sustainable Research Culture (WCFESRC)		28/01/2020	29/01/2020		
2019	FDP on Data analytics	Nill	05/11/2019	10/11/2019	32	Nill
2020	Awareness lecture on Digital Learning	Nill	21/01/2020	21/01/2020	182	Nill
2020	Workshop on 5G	Nill	03/03/2020	08/03/2020	35	21
2019	Workshop on Robotics.	Nill	19/08/2019	23/08/2019	16	4
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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
Workshop on BlockChain Technologies at Anna University, CEG Campus	1	16/09/2019	20/09/2019	5
ATAL Sponsored Short Term Course on Internet of Things: Concepts and Implementation at IIITDM, Kancheepuram	1	15/11/2019	19/11/2019	5
Introduction to VM ware Cloud	6	11/04/2020	11/04/2020	1
FDP on Data analysis using R software4	4	13/03/2020	13/03/2020	1

FDP on Entrepreneurship by TBI	5	09/12/2019	21/12/2019	12
Online Course on Biomedical Nanotechnology, Indian Academic Researchers Association, Trichy	1	07/05/2020	09/05/2020	3
QIP Short Term Course on Biology for Engineers at IIT Bombay	3	03/06/2019	07/06/2019	5
Refresher course on Analog Digital Electronics	1	04/05/2020	08/05/2020	5
6th International Conference on Advanced Computing and Communication Systems (ICACCS 2020)	4	06/03/2020	07/03/2020	2
Workshop on "Medical Device Product Development and IPR" held at SRM Institute of Science and Technology, Kattankulathur	1	07/02/2020	08/02/2020	2
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
227	227	171	171

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>The Institute provides the following facilities to ensure the holistic measures of facilities to all teaching all staff. ?</p> <p>Medical centre with qualified Doctors and para medical and nursing</p>	<p>? Medical centre with qualified Doctors and para medical and nursing staff. Free consultation with emergency medicines.</p> <p>? Transport facility for teaching and non-teaching staff. ? Contributory</p>	<p>Presence of Student Council and its activities for institutional development and student welfare. Describe the Student With the objective of inculcating the qualities</p>

staff. Free consultation with emergency medicines. ? Transport facility for teaching and non-teaching staff. ? Contributory Provident Fund and ESI health scheme. ? Group Insurance. ? Admissions to the wards of the faculty and staff with scholarship. ? Special leave and reimbursement of registration fee for attending conferences/seminars. ? Incentives for excellence in Teaching and Research publications. ? Internal PhD registration and fee concession. ? Financial share in the revenue generated from the patents and consultancy. ? Laptops / Desktops to all faculty. ? Accommodation for faculty and research scholars

Provident Fund and ESI health scheme. ? Group Insurance. ? Admissions to the wards of the faculty and staff with scholarship. ? Special leave and reimbursement of registration fee for attending conferences/seminars.

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.

In addition 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, and 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

6.4 – Financial Management and Resource Mobilization

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

The Institute arranges for financial audits that includes both the internal audit and external audit (statutory audit) every year from the inception as per the UGC Regulations and Income Tax Department. During the last five years, all the expenses made by the Institute were audited by both internal and external financial audits. A copy of the statement of accounts as audited by a chartered accountant and as filed to Income Tax Department is forwarded to UGC every year. Internal audit has been conducted quarterly for the past five years. Qualified Internal Auditors along with a team of staff do a thorough verification of all vouchers to check the veracity of the transactions carried out in each financial year. The Institute has its own internal audit mechanism and the external audit by a chartered accountant to verify and certify the statement of income and expenditure of the Institute every year. The authenticity of financial transactions, monitoring of taxes and other regulatory compliances are focused in internal audits. Auditors inform and guide the Institute in matters of taxation and legal compliances if any. The Institute has ensured that there has never been any statutory non-compliance in the maintenance of accounts. Statutory audit is carried out both half-yearly and annually. The statutory external audits are conducted by the auditors appointed under the regulations of the Institute, in accordance with generally accepted auditing standards prescribed by the Institute of Chartered Accountants of India. The audit procedures are to check whether the financial statements are free from material mismatch and give a detailed report on the state of affairs at end of the financial year. The Institute has a robust Internal audit system which has ensured that there have never been audit objections during the external audit. Updating of procedures for audit as per amended rules is implemented in the fullest form to focus on the sanctity of processes and systems.

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	73500	Kaizen robotics Program in association with Lema Labs
View File		

6.4.3 – Total corpus fund generated

184500

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	ISO	Yes	IQAC
Administrative	Yes	ISO	Yes	IQAC

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

applicable)

NA

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)

Computer Literacy Program Fire Safety and Disaster Management Television Repair Yoga and Beat the stress

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

The Institute has paid more attention in quality improvements in academic and administrative domains on the basis of the suggestions made during first cycle of NAAC accreditation. Efforts to attract research funding from outside agencies: Training had been given to all faculty in preparation of research proposals for funding. The RD wing send details of calls for research proposals issued by various funding agencies including student projects. Periodical meetings are also conducted with faculty in this regard. Seed money is being given for preliminary research. Faculty members are motivated with cash awards for their research projects. Publication of papers in reputed journals: Research forum was created and several programmes were conducted to enhance quality of publications to improve H-index. Sophisticated research facilities: New research facilities were created in collaboration with IBM, Texas Instruments, Technocrat Automation etc. in latest areas. The quality of research has improved which is quantifiable by the number of journal papers, impact factor and citation index. More collaborations with national and international organisations: About 50 MoUs were signed. They included two MoUs with foreign universities for academic and research collaboration. Entrepreneurship activities: Robust Innovation eco system was introduced. Institute has established MHRD approved Institution Innovation Council, Centre for Innovation, two incubators approved by DST and MSME Entrepreneurship Development Cell. Incentives and awards were given for innovative projects. The institute supported filing and processing of patents with payment of required fee. Governance: A fully automated Enterprise Resource Planning (ERP) portal has been implemented. The MoA had been registered as per UGC regulations in 2019. UGC regulations on Ph.D / M.Phil have been adopted by the Institute. Further, following improvements were made in teaching-learning process during the last five years. Outcome based education OBE and CBCS were implemented in all the departments. Faculty were trained in OBE, CBCS, Use of ICT tools and teaching-learning methodology by conducting technical programmes. Guidelines were prepared for assessment and evaluation as per OBE. IQAC provided training to faculty to understand NAAC Revised Accreditation and Assessment Process. The curriculum has been designed based on AICTE Model curriculum, industry needs and Learning Outcome based curriculum framework (LOCF) as per UGC guidelines. SWAYAM/NPTEL courses have been introduced with credits transfer facility for

students. IQAC had 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. Augmentation of infrastructure including ICT enabled class rooms, digital library with 30 systems, new research facilities.

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
2019	Research Scholars Meeting	05/07/2019	05/07/2019	05/07/2019	166
2019	Research Supervisors Meeting	08/07/2019	08/07/2019	08/07/2019	45
2019	NAAC – New Framework	27/08/2019	27/08/2019	27/08/2019	201
2019	Awareness lecture on using LMS in Teaching Learning	07/10/2019	07/10/2019	07/10/2019	195
2019	PO, CO and PSO Assessment and Attainment	07/11/2019	07/11/2019	07/11/2019	120
2019	"Quality Assessment and Accreditation under Revised Accreditation Framework (RAF) of NAAC	24/12/2019	24/12/2019	24/12/2019	174
2020	Seminar on Curricular aspects	10/01/2020	10/01/2020	10/01/2020	182
2020	Special Lecture on NAAC New frame work	04/02/2020	04/02/2020	04/02/2020	216
2020	On-line lecture on IPR	07/03/2020	07/03/2020	07/03/2020	226

2019	Induction programme for New Faculty	01/07/2019	01/07/2019	01/07/2019	36
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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
Awareness Programme on Online safety for Women	28/08/2019	28/08/2019	303	15
Workshop on Grooming and self Confidence	05/09/2019	05/09/2019	58	6
Women Awareness Programme Under Caption Penn Nalam	28/09/2019	28/09/2019	70	4
Women Awareness Programme Under Caption Penn Nalam	06/10/2019	06/10/2019	75	7
Awareness Programme on Safety and security of Women	20/02/2020	20/02/2020	242	5
Computer Literacy for Women in Annanur Village	03/03/2020	03/03/2020	140	8
Awareness program on effects of BP, Diabetes, Heart attack and Obesity for rural women by initial screening.	03/03/2020	03/03/2020	50	1
Flash mob on womens safety	04/03/2020	04/03/2020	200	6
Awareness Programme on	05/03/2020	05/03/2020	230	6

Women Security				
Women's Day	08/03/2020	08/03/2020	150	40
Skit on importance of Girls Education	08/03/2020	08/03/2020	25	5

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
Power requirement met by renewable energy sources 50 kw Total power requirement 250 KWA Renewable energy source 3.5kw solar energy Renewable energy generated and used 3kw generated and used

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
Any other similar facility	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
2019	33	36	05/06/2019	1	Motivational lecture for NSS volunteers	Motivational talk to volunteers and Students - How to create our life	96
2019	33	36	11/06/2019	1	Needs and Servicing of Society	Awareness on Needs and Servicing of	55

						Society	
2019	33	36	14/06/2019	1	Digital payment systems	Created awareness on Digital payment systems	105
2019	33	36	19/06/2019	1	Motivational speech for young minds	Created awareness on young minds	53
2019	33	36	22/06/2019	1	Hard work leads to success	Created awareness on Hard work leads to success	69
2019	33	36	03/07/2019	1	Tree Plantation	Created awareness on Tree Plantation	78
2019	33	36	05/07/2019	1	Tobacco free campus	Motivated the volunteers -Tobacco free campus	120
2019	33	36	17/07/2019	1	Savings Safety in our life	Creating awareness on Savings Safety in our life	110
2019	33	36	19/07/2019	1	Distribution of Cloths materials	Distribution of Cloths for poor families	50
2019	33	36	24/07/2019	1	Electrical wiring for House	Training Importance of Electrical wiring	78
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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	10/09/2019	Students have to follow the updated code of

		conduct of the students
Code of Conduct for the Functionaries	10/09/2019	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	10/09/2019	The faculty and Non teaching staff have to follow the Institute norms.
Code of Conduct for Research Scholars	10/09/2019	Research Scholars have to follow the norms including Plagiarism
Code of Conduct for Non Teaching	10/09/2019	The Non Teaching staff have to ensure the safety of the laboratories, equipment and well being of students
Code of Conduct for Hostel Students	10/09/2019	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
Flag Day	07/12/2019	07/12/2019	64
National Youth Day	12/01/2020	12/01/2020	143
Independence Day	15/08/2019	15/08/2019	135
Onam Celebration	10/09/2019	10/09/2019	108
Teachers Day	05/09/2019	05/09/2019	99
Engineers Day	15/09/2019	15/09/2019	85
NSS Day	24/09/2019	24/09/2019	135
International Non-Violence Day	02/10/2019	02/10/2019	125
International Day for Disaster Reduction	13/10/2019	13/10/2019	120
National Constitution Day	26/11/2019	26/11/2019	135

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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

TITLE OF THE PRACTICE: INNOVATION ECOSYSTEM OBJECTIVES: Innovation Eco System of St. Peter's Institute of Higher Education and Research (SPIHER) acts as the driver of innovation. The main objective of the system is to promote creativity and innovation among students and teachers, and facilitate development of innovative systems, processes, products, technologies and services for the benefit of the society. It serves to connect all the stakeholders and other technical service providers, providers of skills training and professional development, and IPR support. **CONTEXT:** The Centre for Innovation was started in 2017 with the objective of motivating students and teachers on innovation and improvement of quality research and publications. Motivational lectures are arranged for this purpose. Incentive to faculty for best project with maximum grant Incentive to faculty for high quality publication with maximum impact factor Incentive for faculty filing patent by reimbursing cost of filing and publishing and Students' Project Exhibition and award of certificates and cash prizes for best projects are given every year. **THE PRACTICE:** SPIHER strives to encourage and create Research culture conducts various workshops, challenges, hackathons, innovation competitions, projects, and publications. A team of dynamic minds from the galaxy of teachers and students had to be identified to promote a productive as well as proactive outcome in the innovative pursuits of the institution. Creative and unique academic pursuits had to be addressed by setting up a council of such intuitive minds. The Institution Innovation Council (IIC) started in 2018 at the initiative of the Innovation Cell of the Ministry of Human Resource Development, Government of India. The Council includes members from students, teachers, industry and Patent expert. A number of activities are conducted through this Council to motivate and promote creativity and innovation among students and teachers viz., Webinars by Industry Leaders, Workshops on IPR, Workshops on entrepreneurship and innovation, Hackathons for students, Innovation challenge and business plan competition, and Field visit to incubation center. The practice of Innovation Ecosystem has exclusively given birth to various Innovation wings in SPIHER like the Centre for Innovation, Technology Business Incubator, and the SPIHER-MSME Business Incubator. The Technology Business Incubator was started in 2009 with approval of the Department of Science and Technology, Government of India, with a grant of Rs. 2.00 crores. Besides incubation activities, the incubator conducts several technical programmers like awareness camps, technology based entrepreneurship development programmes and Faculty development programmes every year with funding by Entrepreneurship Development Institute of India. SPIHER - MSME Business Incubator was started in 2009 with the approval of the MSME, Government of India. The incubator promotes emerging technological and knowledge-based innovative ventures. The scheme was enlarged with provision for seed capital for startups and our incubator was approved under the new scheme in 2019. The activities of the incubator include: Guidance for grant-in-aid for technology development Guidance for seed capital for startup Mentoring support Technical guidance through mentor RD support, testing where required Linking with other RD labs, industry where required Guidance for IPR Guidance for technology transfer and Training programmes and skill development. The incubator promotes ideas in technology domains like Manufacturing industry, Electronics Communication, IoT, Energy and Environment, Construction, and Health care. **EVIDENCE OF SUCCESS:** Ten technologies have been developed for commercialisation through SPIHER - MSME Business Incubator. Four patents have been filed. The non-invasive device for measuring sugar level has won the first prize at the International Exhibition organised by AIEMA on Machine Tools during June 2018 at Chennai Trade Centre. The innovation eco system has contributed potentially for innovation performance of the institute. Totally 31 patents have been filed out of which two have been granted and the remaining are under various stages of process. Ten technologies have been successfully

developed. Ten ideas have been applied for grant and seed capital under Ideas for New India 2020 of Ministry of MSME, Government of India. The Institution Innovation Council has been awarded 3 stars by MHRD IC for performance during 2018-19. Four teachers have been trained as ambassadors in product design, product development, IPR and entrepreneurship. All these have helped in promoting innovation and ideas for technology development for commercialisation.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: The faculty came up with a list of innovative technologies like making Plastic device with acetone sensor, Wearable device for geriatric care, Geopolymer concrete bricks, Solar powered electric vehicle for in-campus transportation, Fuel activator, Device for active assist rehabilitation of elbow and wrist joint, and Grid-tie solar PV system. The Institution Innovation Council along with the help of MHRD and the constant back up from SPIHER had to arrange interactive meets and constructive platforms for the aforementioned innovations. Students and teachers had to be constantly motivated to accomplish more innovative ideas through IIC and also to enjoy the benefits of being financially supported by the institution for their innovations.

TITLE OF THE PRACTICE: OUTREACH PROGRAMMES

OBJECTIVES: St. Peter's Institute of Higher Education and Research aims at serving humanity in times of need and also in times of crisis. Hence, as per the motives of the International Red Cross Society, the institution comes together with its resources to construct a friendship with the society.

The NSS/YRC cell of SPIHER organizes relief and assistance without discrimination to the victims of various disasters. The students are trained by the NSS/YRC staff to identify and alleviate human sufferings, to be socially responsible and vigilant, and to ensure respect and dignity for human beings.

The basic principles of this practice include: humanity, distinction, proportionality, and prevention of Universal suffering.

CONTEXT: An understanding of civic responsibility was identified in aspiring students. A sense of duty and dedication was imbibed in them by the NSS/YRC staff of SPIHER. The NSS/YRC cell organized various outreach initiatives with the co-operation of the NSS/YRC Joint District organizers. The Institute strives to raise the capacity of healthcare, safety, and mobilizing the normal life of the vulnerable. An inbuilt advocacy of tolerance and co-existence in the communities is inculcated in the students.

THE PRACTICE: The vision of this practice is to make the students healthy in both academic and non-academic perspectives. After graduation a student of SPIHER is not only identified as an efficient scholar but also as a responsible citizen. A few villages have been adopted by SPIHER for delivering these outreach programmes. The dynamic, devoted, and service-minded faculty members of SPIHER, who are appointed as the Zonal-coordinators of the NSS/YRC cell, take up the responsibility of sensitizing, inducing, and encouraging the young minds to participate in the University zone activities. These selfless, service-minded NSS/YRC volunteers are identified and nominated as office bearers by the University Heads with the joint contribution of the District organizers. These volunteers are then steered to perfection by involving them in awareness programmes to people on personal hygiene through campaigns, rallies, skits, mimes, etc. With the help of the state parent body SPIHER also conducts medical check-up at slums, and adopted villages. SPIHER has also been instrumental for the Public Health Department in imparting ground level works such as anti-epidemic measures, village sanitation, etc. Cultural programmes and events for students help them realize the intensity of such emergency situations in a creative manner. Inside the premises the students are made to practice healthy habits like keeping the campus as well as public places clean, practicing healthy sanitation habits at home, planting saplings inside and outside the campus, using pollutant free fuels for their vehicles, helping the persons at distress, rendering first aid to people in trauma, and many such healthy habits which is made a practice for them. Their higher education purpose is doubled with an awareness and consciousness for the society.

EVIDENCE OF SUCCESS: As part of setting an

example to the student community and to the society, SPIHER encourages the admission of physically challenged youth who can gain success from the Institution. Elevators, equipped lavatories, comfortable classroom amenities help the physically challenged students gain a comfortable ambience in the campus. Apart from that these outreach programmes also target every year to organize and have accomplished the same: NSS/YRC training camps, non-formal adult education, sewing and handicraft training programmes, rainwater harvest in adopted villages, cleaning and de-weeding tanks or ponds with the help of local people, small saving and co-operatives drive, awareness for the development of dairy, poultry, fishery, apiculture, mushroom cultivation, etc.

Days of national and international importance are also observed like: International Day of Peace, Vigilance awareness weeks, National Unity day, Fit India Movement, International Literacy day, and Swachhta hi Seva. PROBLEMS

ENCOUNTERED AND RESOURCES REQUIRED: In order to supply services like offering medicines to the poor, taking students through transport to camps and their staying expenses, providing garments to the needy, providing hospital services, rice and fruits for the sick and needy, and organizing free eye camps and blood donation camps, SPIHER has generously spent money to regulate all necessities for the NSS/YRC cell. NOTES: The NSS/YRC cell of SPIHER has implemented various outreach programs through Swachh Bharat Abhiyan, Disaster Management. They are:

Beat Plastic Pollution, Clean India, Planting tree saplings, Healthy Living through Yoga, Implementing reverse osmosis, solar panels to generate electricity, Rain water harvesting projects, Fire safety demonstrations, Computer literacy in schools, Rural women on effects of chronic diseases and Creating awareness on dengue and chikungunya through Unnat Bharat Abhiyan. NSS special camps has also developed the additional exclusive outreach programmes: Gender equality awareness programmes, Educating underprivileged children, Computer training course for police constables, Awareness on voting rights and The usage of the Kaavalan app.

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

<https://spiher.ac.in/wp-content/uploads/2021/08/Best-Practices-19-20.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

7.3 Institutional Distinctiveness St Peters Institute of Higher Education and Research was previously known as St. Peter's Engineering College which was started in 1993 Avadi, Chennai. It has been declared as a Deemed-to-be-University by the Ministry of Human Resource Development (Education), Government of India, New Delhi, Under Section 3 of the UGC, Act 1956 from 2008-09 onwards. The institute is constantly working to focus on providing high-quality technical education and offering innovative programmes that contribute to Research and development activities for long-term growth. SPIHER seeks for and keeps qualified, motivated faculty, as well as suitable infrastructure, equipment, and machines. It also has recreational and sporting facilities. Having a well-stocked library with the most up-to-date teaching aids fosters an efficient teaching-learning process. The library is open 12 hours a day to academics, students, and faculty (8 to 8 basis). Students and instructors can access a variety of online journals, NPTEL course materials, e-resources, e-books, the OPAC, and DELNET services. **SALIENT FEATURES OF INSTITUTE ?** Through a well-structured curriculum and instructions, the Institute delivers holistic education to develop skills, knowledge, and values in order to overcome the difficulties of the professional world and life. ? The RD Department is key to our institutions advancement and student-faculty enrichment. Stipends are available for exceptional research students (MPhil PhD). SPIHER ensures the

safety, comfort, and academic direction of physically challenged pupils. ? SPIHER is well-known not just for its academic brilliance, but also for its significant presence in innovative technology research and development. SPIHERs Academic Research Programs serve as a platform for strong multidisciplinary cooperation and information sharing, as well as providing solutions to humanitys issues. ? The NSS and YRC wings of the student body are active in developing strong social ideals in our students. Under the supervision of NSS, YRC, and the womens redressal committee, various personality development programmes and health check-up camps are held. ? Significant career advising programmes are being organised by the institute to assist students in rural areas by holding campaigns in surrounding communities. ? The university has made a significant contribution to the nations overall growth through the projects and other research extension activities. Students learning activities are strengthened by the signing of Memorandums of Understanding with industry and institutions viz. IMMRI, CADD CAMM, IIKE, IBM, Cambridge, TIMELAC, TAPSTIA. ? For students, learning a foreign language opens them with a plethora of professional prospects. With this in mind, SPIHER has established a Centre for Foreign Languages, which strives to integrate a significant research component into foreign language teaching and learning. The institute began teaching German and Japanese. ? Students have received career development services from the Institute in regards to higher education and advancement opportunities. ? A separate Training and Placement cell exists to arrange training programmes and placement drives for students. Students are given special training on personal development and soft skills right from the first semester. Every academic year around 90 of students are placed and the rest pursue their higher studies.

Provide the weblink of the institution

<https://spiher.ac.in/>

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 incubator 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.