

**TEQIP-III Action Plan for July, 2020 to September, 2020**

Subcomponent : 1.3									
Name of the Institute : SCHOOL OF ENGINEERING, COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, KERALA									
(Amount in Rs.)									
Heads	Sub-Heads	July, 2020 to Sept., 2020							
		July 2020		August 2020		September 2020		Total Expenditure	
		Activities	Expenditure	Activities	Expenditure	Activities	Expenditure		
Procurement of goods	1.3.1.1	<b>Equipments</b> (for hostel, sports and any non academic activity not permitted)	SOE_EEE ELECTRICAL MACHINE LAB EQUIPMENT-18,20,436.74 SOE-SE-Fireman's Helmet-3,14,352.00 SOE_FLAT BED SCANNER-2,71,872.00 SOE_VIDEO CONFERENCING SYSTEM-4,92,285.00 SOE_DIESEL GENERATOR-11,06,706.00	40,05,652.00	CAMERA / RECORDING SET UP-1,00,000.00  MICROPROCESSOR LAB EQUIPMENT-164000	2,64,000.00	SERVER COMPUTER-70000 AIR CONDITIONER PHASE III-111000 Laptop-80,000.00 Printer -16,000.00	2,77,000.00	45,46,652.00
	1.3.1.2	<b>Learning resources</b> (e-books, e-journals, softwares, text book etc.)			BOOKS/JOURNAL-500000	5,00,000.00			5,00,000.00
	1.3.1.3	<b>Furniture</b> (for hostel, sports and any non academic activity not permitted, but allowed for TEQIP Cell)							-
	1.3.1.4	<b>Minor civil works</b> (for hostel, sports and any non academic activity not permitted, no new building), (repair,maintenance & extension allowed)							-
	1.3.2.1	<b>Improve student learning</b> 1. IIT/ NIT training at IIT/NIT or in parent institute (training fees, honorarium to faculty, TA/DA of students or resource person); 2. Induction Training for 1st year & lateral entry students in 2nd year - Training of faculty mentors by induction coordinators already trained; lectures on Universal human values, Crash course on communication skills; crash/ bridge courses on conceptual learning on mathematics and physics, expenditure on art and craft training, physical activities (own faculty with honorarium/ hired experts) 3. Expenditure on Student Excellence and Learning Programme (SELP- art of living) 4. GATE Orientation Programme for all students, 5. GATE Preparation Classes from 3rd year onwards; 6. GATE Registration Fee (only for final year students) 7. Career Counselling for Student; appointment of counsellor (internal/external)- honorarium, TA/DA etc. 8. Employability / Psychometric/ Diagnostic Test of all students; 9. Honorarium for Remedial Classes for failure / academically low performing students; 10. Peer Learning- incentivizing students 11. Student Visits to IIT & R&D organizations; 12. Institutional memberships for professional societies 13. Sponsorship of 20% on academic activities in Tech Fest; 14. Registration Fees and TA/DA for students participating in Tech Fest of IIT/NIT; 15. Exposure visits of social backward and girls students to reputed organisations 16. Providing GATE learning materials for students preparing for GATE and not participating in training 17. Expenditure of conduct of practicals for students in other nearby institute on advance equipments	GATE online coaching (INST)-325000  Remedial 50000 (INST)  Workshop on PSPICE by Dr. Rijo Sebastian, Assistant Professor, MITS, Kottayam-5000 (EC)  Motivational talk series Summit 1 - for B.Tech First Year-5000 (EC)  Motivational talk series -Summit 2 - for B.Tech Second Year - 5000 (EC)  Motivational talk series- Summit 3 - for B.Tech Third Year- 5000 -(EC)  Motivational talk series- Summit 4 - for B.Tech Fourth Year-5000(EC)  Webinar on career resources-6000(EE)  2 days online workshop on IoT-20000(EE)  Five days workshop on 'Machine Learning- A Hands on approach' (IT- Sariga Raj) -Rs. 1,00,000/-IT	5,26,000.00	<b>GATE online coaching construction (INST)-325000</b>  <b>Remedial 50000 (INST)</b>  Training on BIM (CE)-100000  1 Day Workshop on BlockChain for Fifth semester students - Mr.V. Damodaran & Ms.Abhiha P.G - Rs.10,000/ (CS)  Training on "High Performance Computing Software" by Ms. Kala S, Assistant Professor, IIT Kottayam-8000 (EC)  "Basics of MATLAB and Simulink", by Mr. Basil K. Jeemon, Assistant Professor, FISAT 8000 (EC)  Workshop on Hardware Modelling 8000 (EC)  Programming with Python 8000 (EC)  Webinar on Job opportunities in the present scenario (Post Covid 19)-6000(EE)  2 days online workshop on Embedded programming on AVR- Atmega32-20000(EE)  2 day workshop on machine learning with PYTHON-20000(EE)  One day Workshop on 'Machine Learning approaches for Covid Research' by ULTS, Covidomics Research Consortium (IT-Dr.Binsu C. Kovoor) - Rs.20,000/- IT	7,63,000.00	Remedial 50000 (INST)  Industry Expert lecture - Transportation(CE)-10000  Attending IGBC congress for students and faculty membebrs (CE) -50000  <b>GATE online coaching (INST)-325000</b>  Training on BIM (CE) -100000  1 Day Workshop on Web Technology for Third semester students - Dr. David Peter & Ms.Jithi P.V - Rs.10,000/(CS)  1 Day Workshop on Internet Of Things for Seventh semester students - Dr. Latha R Nair & Ms.Manjusha V - Rs.10,000/(CS)  Hands-on training on "Computer Vision" using Open CV and Keras by Mr. Michael George, Assistant Professor, RIT, Kottayam-8000(EE)  2 days online workshop on Simulation tools.20000 (EE)  One day workshop on Bigdata (IT- Dr.Shelbi Joseph)-Rs.25000/-(IT)	5,83,000.00	18,72,000.00
	1.3.2.2	<b>Research Assistantships</b> 1. Research Assistantship in engineering & applied science discipline for full time Ph.D. students excluding QIP candidates or any other scheme; 2. Providing contingency as decided by competent authority of institution							-
	1.3.2.3	<b>Graduates employability</b> 1. Awareness drive/ workshops about the idea of 'Innovation' & 'Start-up' 2. Continuous Drive of Competitions: Smart India Hackathon, Idea stage, prototype stage, business plan, etc every month for first to final year students 3. Soft Skill training (Industry Readiness); 4. Remedial coaching for first to final year students in Communication Skills, quantitative ability, logical reasoning as observed in AMCAT employability test 5. Bridge Courses for enhancing employability/placement 6. Conducting training on NASSCOM future skills 7. Specialized industry based training programmes by industry 8. Organising motivational talks by local entrepreneurs 9. E-summits, conferences, seminars and other Entrepreneurship fests	Motivational talk (online) by Dr. Ranjan Kumar Behera, IIT Patna-5000(EE)  Online Softskill training -15000(EE)  Softskill training for 2nd year students of IT on every Saturday - Rs.30000/-(IT)  Organising an E-summit on Emerging Trends in Industrial Safety-50000 (SE)	1,00,000.00	Day Seminar on Recession proof careers for BTEch students - Dr. David Peter & Ms. Mahima Mary Mathews - Rs. 10,000/- (CS)  Online Softskill training -15000(EE)  Softskill training for 3rd year students of IT on every Saturday - Rs.30000/-(IT)	55,000.00	2 Day Workshop on Emotional Intelligence - Ms. Ancy Zacharia & Ms. Minu Poulouse - Rs.20,000/-  1 Day Seminar on Professional Ethics careers for BTEch students - Dr. Sudheep Elayidom & Ms. Nitha C.P - Rs. 10,000/ (CS)  Online Softskill training -15000(EE)  Webinar on Steps to start a START UP - 10000 (EE)  Softskill training for 4th year students of IT on every Saturday - Rs.30000/-(IT)	85,000.00	2,40,000.00

1.3.2.4	<b>Faculty/Staff Development and motivation</b> 1. Short Term Training Programmes (STTP) in house; 2. Registration fee and TA/DA for STTP in other reputed institutes; 3. IIT training to faculty at IIT or in parent institute; 4. Attending Conferences/ Seminars / Workshops 5. Support Staff training, 6. Counselling of faculty and staff, particularly for disadvantaged sections of the society 7. Qualification upgradation of faculty and staff 8. Faculty training on NASSCOM future skills 9. Faculty training on digital pedagogy 10. Motivational talks for faculty and staff for improving efficiency and belongings 11. Faculty and staff training in industry (registration fees, TA/DA, accommodation etc.)	3 Day FDP on TensorFlow & Deep Learning - Dr. Sudheep Elayidom & Mr.Arun M. O - Rs. 55,000/(CS)  For attending STTP/Conference/Seminar etc - Rs. 35000/-(CS)  FDP on Machine learning/Deep learning - A hands on Approach (Co-ordinator - Dr. Babita Rosind Jose-70000(EE))  One day online workshop on "Teaching Effectiveness in a digital world" by Dr.Sindhuja R Varma, Consultant Trainer and Coach, Managing Partner, Antara Consultancy) - Coordinator - Dr. Mridula S [To be conducted in June 2020 preferably before the commencement of online classes-5000(EE)  STTP on "Image Forensics" - Co-ordinators Dr Deepa, Dr Anju - 70000(EE)  Online FDP in IOT & embedded systems - Co-ordinators Unni, Dr. Binu Paul -70000(EE)  Attending Conferences/ Seminars/Workshops; Qualification Upgradation; Support Staff training - 10000(EE)  Seminar on Streamlining students to the present system of online assessments 6000(EE)  Two days workshop on 'Role of Digital Twinning in Industrial and Agricultural Applications' (IT- Dr.Santhosh Kumar M.B.) - Rs. 50000/-(IT)  STTP on 'Data Science' (IT- Dr.Shelbi Joseph and Dr.Daleesha M.	6,26,000.00	3 Day FDP on Network Security & Internet Of Things - Ms. Preetha S & Ms.Lima Johnson K - Rs.55,000/(CS)  3 Day FDP on Applied Cryptography & Blockchain - Dr.Sheena Mathew & Ms. Mahima Mary Mathews - Rs. 55,000/(CS)  For attending STTP/Conference/Seminar etc - Rs. 35000/-(CS)  1) FDP on "advanced computer Architecture and Computational Techniques-Co-ordinator Dr. Rekha K James (EC) and Dr. Delisha 7000 (IT) - From (EC)  Online 6 day FDP on Industrial Automation-75000(EE)  Attending Conferences/ Seminars/Workshops; Qualification Upgradation; Support Staff training-10000(EE)  Two days workshop on 'Blockchain in Agriculture' (IT- Dr. Santhosh Kumar M.B.) - Rs.50,000/-(IT)  FDP on 'Educational Technology Tools' (IT-Dr.Renumol V.G.) - Rs.1,00,000/-(IT)  For attending STTP/Conference/Seminar etc-(IT) - Rs.25000/- IT  STTP ON Quality Control (Dr. Bhasi AB) (Rs. 50,000) - ME  Registration fee for online Faculty Development Programme for faculty members (Rs. 30000) - ME  Organising STTP on Industrial Instrumentation and Process Control--	6,55,000.00	FDP for Stress management100000 (CE)  Webinar on sustainable materials 10000 (CE)  3 Day FDP on Natural language Processing - Dr. Latha R Nair & Ms.Lino Murali - Rs.55,000/-(CS)  2. For attending STTP/Conference/Seminar etc - Rs.35000/- (CS)  Online 6 days FDP on Power System and its Application-75000(EE)  Attending Conferences/ Seminars/Workshops; Qualification Upgradation; Support Staff training-10000(EE)  STTP on 'Emerging AI Techniques in Data Analytics' (IT- Dr.Binsu C. Kovoor) - Rs.1,00,000/- (IT)  For attending STTP/Conference/Seminar etc - Rs.25000/-(IT)  STTP ON Supply Chain Management (Dr. Franklin Robert John) (Rs. 50,000) - ME  STTP on Combustion and Propulsion (Dr. Gireesh kumaran Thampi) (Rs. 50,000) -ME  Organising STTP on Industrial Safety Engineering and Management-100000 (SE)	6,10,000.00	18,91,000.00
1.3.2.5	<b>Research and development</b> 1. Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute; 2. Spares and consumables for UG/ PG student research project; 3. Seed Money for R & D for faculty research projects; 4. Providing seed money to students for their projects. (Incentivisation through prizes, appreciation etc.); 4. Publication in peer reviewed journals having citation & impact factor and scopus index; 5. Fees and facilitation charges for patent filing for faculty and students, 6. Workshops on writing collaborative research proposals 7. Inhouse product development by students 8. Expenses for using infrastructure facilities (rent) in other organizations; 9. Expense on testing/characterization of samples of R&D projects undertaken by faculty/students 10. Appointment of retired teachers from IITs/NITs/other reputed institutions as Senior Research Advisor (salary/honorarium - as approved by competent authority of institution 11. Additional funding for soft activities in collaborative research scheme	Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute-20000(EE)  Spares and consumables for UG-30000(EE)  1. For attending R&D activities - Rs.30000/- (IT)  2. For attending STTP/Conference/Seminar etc- -Rs.15000/- (IT)	95,000.00	Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute-20000(EE)  Webinar on Training the electrical engineers to address the social needs-10000(EE)  Spares and consumables for UG-30000(EE)  For attending R&D activities - Rs.30000/- (IT).  Attending conferences,seminars & workshops for students and Student Projects- Rs.15000/-(IT)  Research scholars attending conferences and Testing of samples at other Labs-50000-SE	1,55,000.00	Lecture Series - Advances in Geotechnical Engineering-100000-(CE)  Webinar on Seismic hazard modelling-7500-(CE)  Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute-20000(EE)  Spares and consumables for UG-40000(EE)  1. For attending R&D activities - Rs.30000/- (IT)  Attending conferences,seminars & workshops for students and Student Projects - Rs. 15000/-(IT)	2,12,500.00	4,62,500.00
1.3.2.6	<b>MOOCs and digital learning</b> 1. Certification fees for online courses (MOOC's); 2. Development of MOOC's/ Online courses, etc 3. Incentivizing faculty for generating digital learning material content development etc.	MOOCs Binu Paul, Rekha James-30000(EE) Certification fees for online courses-25000-EE MOOCs and digital learning - Rs.100000/-(IT)	1,55,000.00	MOOCs and digital learning 100000 (CE) Certification fees for online courses-25000-EE MOOCs and digital learning - Rs.100000/-(IT) Development of MOOCs-100000(EE)	3,25,000.00	MOOCs and digital learning 100000 (CE) Certification fees for online courses-25000-EE MOOCs and digital learning - Rs.100000/-(IT)	2,25,000.00	7,05,000.00
1.3.2.7	<b>Mentoring/Twinning system</b> 1. Two way faculty, staff and student exchange programs for training and academic activities; 2. Joint R & D; Arranging seminars, academic meetings and conferences for students and faculty; 3. Organising Industry partnerships for joint R&D, internship and placement activities; 4. Learning forums for improving governance practices, institutional management and reforms; 5. Joint Advisory or consultancy services; any other activities as deemed mutually appropriate 6. Joint placement drives	Twinning program: Five days workshop on 'Recent Trends in Industry 4.0 standards' - Rs.1,00,000/-(IT- Dr.Binsu C. Kovoor.)	1,00,000.00			Twinning program - Rs. 50000/-(CS)	50,000.00	1,50,000.00
1.3.2.8	<b>Reforms, governance</b> 1. Organizing workshops for faculty so as to implement AICTE model curriculum 2. Meeting expenditure for various authorities like ICC, BoS, Academic Council/ Senate, BoG							
1.3.2.9	<b>Management Capacity development</b> 1. Management Capacity Building programmes at IIM; 2. Organizing leadership programmes by IIM faculty in parent institute 3. NPIU workshops, etc	Online management program registration-3000(EE)	30,000.00	Online management program registration-3000(EE) Training programme in IIM - Rs.25000/-(IT) Management Capacity Building-100000(EE)	1,55,000.00	Online management program registration-3000(EE) 1. Training programme in IIM - Rs.25000/-(IT)	55,000.00	2,40,000.00
1.3.2.10	<b>Hiring Consultancy Services</b> 1. Three ways for carrying out any academic activity a) internal faculty b) external faculty c) outsourced service provider, 2. External faculty can be invited on remuneration basis (Rs. 700/ per							

	1.3.2.11	<b>Industry-Institute Interaction</b> 1. Expenditure on TA/DA registration fees for Internships; 2. Inviting Industry expert for lectures; 3. Placement Activities & Hospitality for the companies coming for placement 4. TA/DA of students and faculty for Industry Visits, 5. Arranging HR summit for placement 6. Preparation and printing of brochure for placement 7. Expenditure on submission of collaborative research proposals to the industry 8. Conducting workshops for GD/PI, preparation of CV for placement, mock interviews 9. Conduct of Alumni meet for career guidance and placement activities 10. Arranging pool campus 11. Participation of industry experts in curriculum development through ICC. 12. TA/DA and honorarium for industry experts assisting in delivery of curriculum	Lecture Series -1 Innovative construction (CE) - 7500  Technical Talk on Disaster Mitigation and management (CE) - 7500  Talk (online) on "RF ADC Linearization" by Dr. Jos Prakash A V (Post Doctoral Research, University College, Dublin, Ireland) & "An Overview of Functional Safety", Protean Electric, UK-5000 (EC)  Expert talk from KSEB, Cochin Refinery-12000(EE)  Industrial Expert talk on 'Agile Development' from santander consumer technology services gmbh - Rs.20000/- (IT- Dr.Binsu C. Kovoor)	<b>52,000.00</b>	Lecture Series -1 Innovative construction (CE)-7500  Technical talk on Environmental engineering(CE)-7500  Expert talk from KSEB, Cochin Refinery-12000(EE)  Expert talk: 'Emerging Technology in IT' for 3rd semester students by TCS - Rs.20000/- (IT- Dr.Daleesha M. Viswanathan)  Industry Expert Talk: 'Cloud Platform Architecture-' - Rs.20000/- (IT- Dr.Binsu C. Kovoor)  Industry Visits -Rs.65000/- (IT)  Talks by industry experts - 10000 (SE)	<b>1,42,000.00</b>	Lecture Series -1 Innovative construction(CE) - 7500  Technical talk on Environmental engineering(CE) -7500  Expert talk from KSEB, Cochin Refinery-12000(EE)  Industry Visits - Rs.65000/- (IT)  Workshop on Cloud computing - Rs.50000/(IT- Dr.Daleesha M. Viswanathan and Dr.Shelbi Joseph)  Talks by industry experts - 10000 (SE)	<b>1,52,000.00</b>	<b>3,46,000.00</b>
Operating Cost	1.3.3.1	<b>Consumables</b>		12,000.00		12,000.00		12,000.00	<b>36,000.00</b>
	1.3.3.2	Operation and maintenance of equipments		2,500.00		2,500.00		2,500.00	<b>7,500.00</b>
	1.3.3.3	<b>Office expenses</b> (The activities include: stationary, printing, etc.)		5,000.00		5,000.00		5,000.00	<b>15,000.00</b>
	1.3.3.4	<b>Meetings</b> (only project related meetings)		35,000.00		35,000.00		35,000.00	<b>1,05,000.00</b>
	1.3.3.5	<b>Hiring of Vehicles</b> (only for project activities)		2,000.00		2,000.00		2,000.00	<b>6,000.00</b>
	1.3.3.6	<b>Travel Cost</b> (only for project activities)		2,000.00		2,000.00		2,000.00	<b>6,000.00</b>
	1.3.3.7	<b>Salary</b> (for TEQIP office staff)		96,600.00		96,600.00		96,600.00	<b>2,89,800.00</b>
		<b>TOTAL</b>	0	<b>58,44,752.00</b>	0	<b>31,69,100.00</b>	0	<b>24,04,600.00</b>	<b>1,14,18,452.00</b>