

TEQIP

Technical Education Quality Improvement Programme

IIT Guwahati TEQIPs Courses

Annual Report 2017-2021

Technical Education Quality Improvement Programme (TEQIP)

TEQIP conceived in pursuance of the NPE-1986 (revised in 1992) by Govt. of India as a long term program to be implemented in different phases. After successful execution of TEQIP II, TEQIP III started from 2017-18 as Central Sector Scheme with a focus on the Low Income States, Northeast, Hill States and Islands. A total of 177 Engineering institutions and 14 Affiliating Technical Universities (ATUs) covering 1165 unaided institutions are selected for participation in TEQIP III. The third phase of TEQIP is also special in a way that it incorporates twinning arrangements between mentee & mentor institutions with an emphasis on Focused Training (FT) and Focused Interventions from IITs in terms of deliverables and accountability. Further, **IIT Guwahati is given huge responsibility to mentor 12 engineering institutions of NER of India along with IIT Kharagpur.**

KIT (Knowledge Incubation Cell for TEQIP), established at IIT Guwahati under 2nd phase of TEQIP, functions as a multi-disciplinary as well as interdisciplinary Innovation Incubation Centre with a focus to impart Knowledge, infusing innovation and leading a path to achieve academic excellence. Its activities are in the area of improving quality of technical education, incubator of Innovative Ideas; implementer of contemporary pedagogy practices and development of Learning Content in Technical institutions while mentoring them.

IIT Guwahati contribution:

Short Term Courses (44):



C-based VLSI Designs: Synthesis, Optimization and Verification

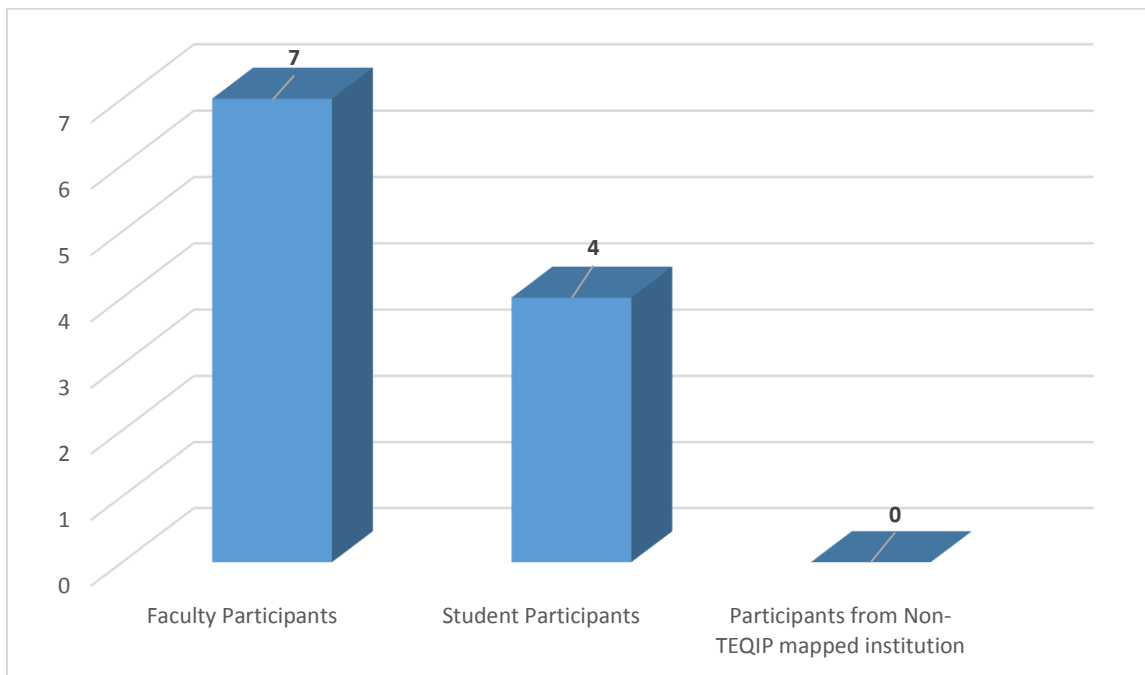
Dr. Chandan Karfa
Computer Science and
Engineering

Type of the course: STC Duration: 01.04.19 to 05.04.19

Total nos. of Faculty Participants: 7

Total nos. of Student Participants: 4

Total nos. of Participants from Non-TEQIP mapped institution: 0





Advances in Welding and additive manufacturing

Prof. Pankaj Biswas
Mechanical Engineering

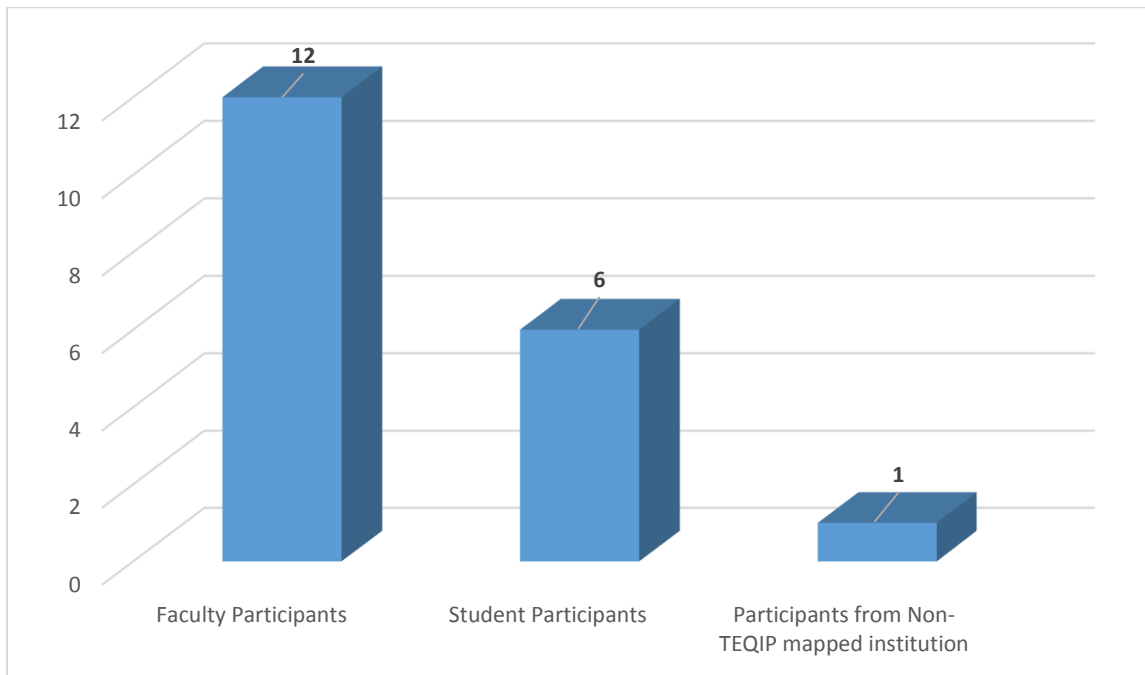
Prof. S. Pal
Mechanical Engineering

Type of the course: STC Duration: 26.11.18 TO 30.11.18

Total nos. of Faculty Participants: 12

Total nos. of Student Participants: 6

Total nos. of Participants from Non-TEQIP mapped institution: 1





Urban Traffic Modeling and Control

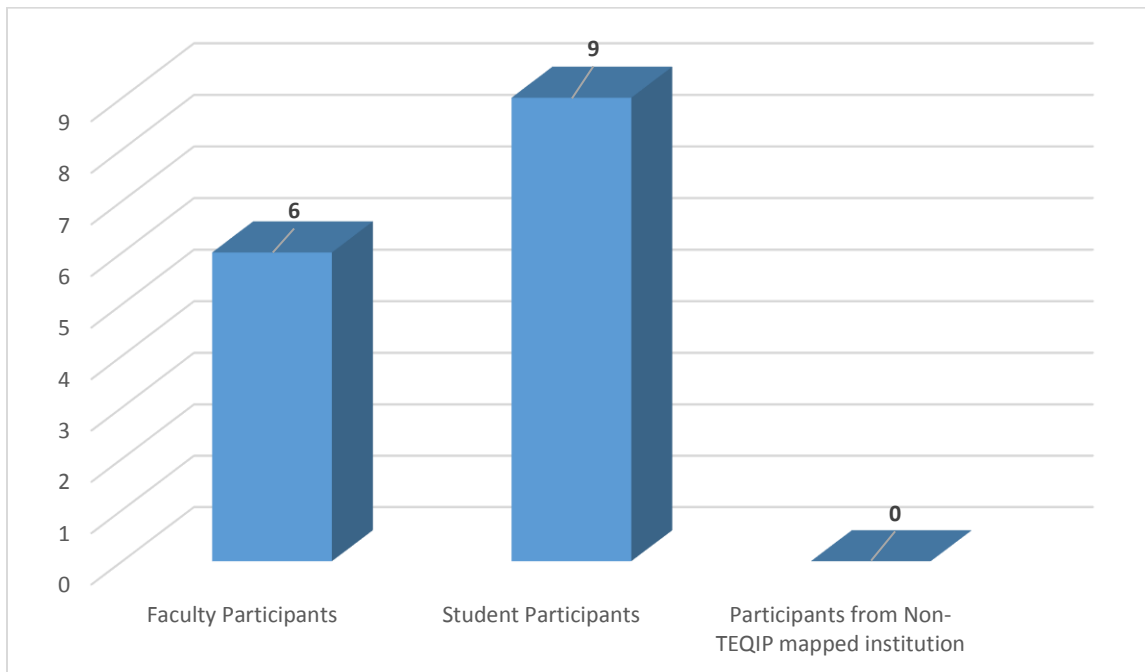
Prof. Akhilesh Kumar Maurya
Civil Engineering

Type of the course: STC Duration: 04.09.18 to 08.09.18

Total nos. of Faculty Participants: 6

Total nos. of Student Participants: 9

Total nos. of Participants from Non-TEQIP mapped institution: 0





Recent Advances in Materials, Energy and Environmental Engineering

Prof. Bishnupada Mandal
Chemical Engineering

Prof. Prakash Kotecha
Chemical Engineering

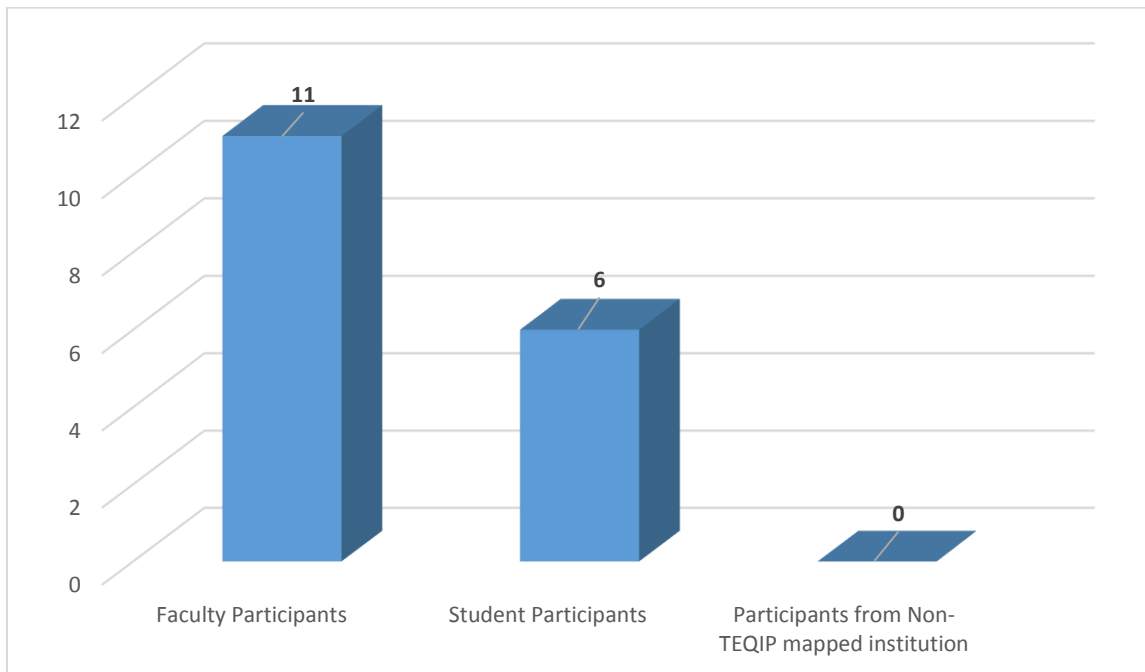
Prof. R. Anandalakshmi
Chemical Engineering

Type of the course: STC
Duration: 16.07.18 to 20.07.18

Total nos. of Faculty Participants: 11

Total nos. of Student Participants: 6

Total nos. of Participants from Non-TEQIP mapped institution: 0





Nanomaterials and Smart Devices

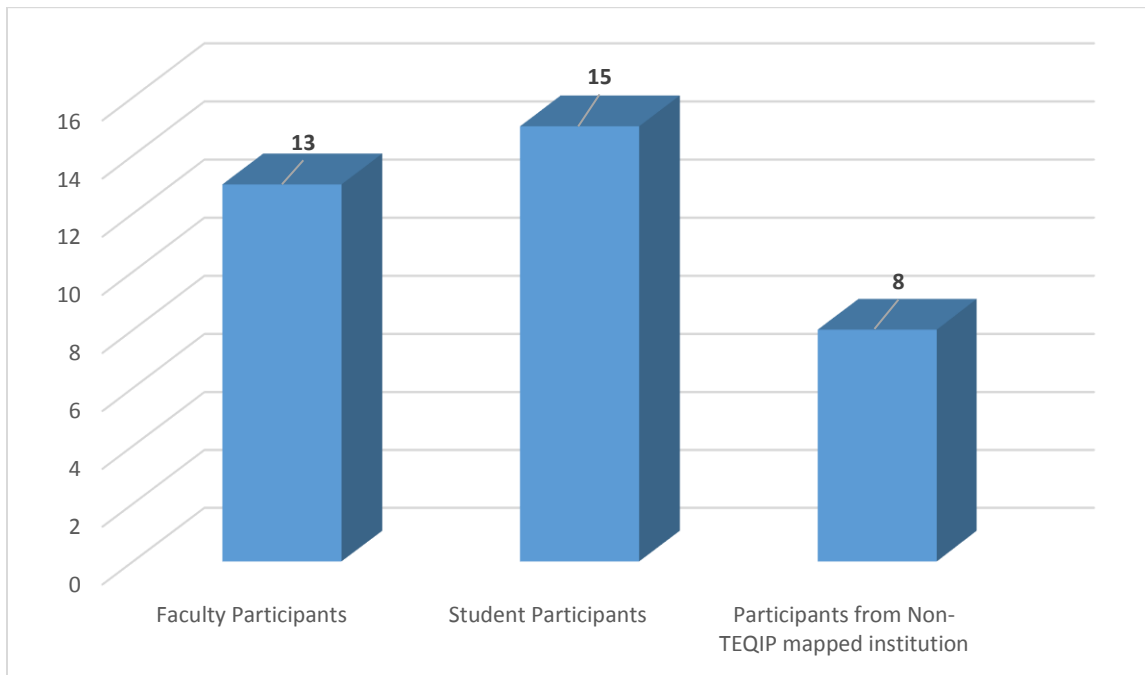
Prof. D. Pamu
Centre for
Nanotechnology

Type of the course: STC Duration: 17.09.18 to 22.09.18

Total nos. of Faculty Participants: 13

Total nos. of Student Participants: 15

Total nos. of Participants from Non-TEQIP mapped institution: 8





State-of-art Computational Tools in Science and

Prof. Bishnupada Mandal
Chemical Engineering

Prof. Prakash Kotecha
Chemical Engineering

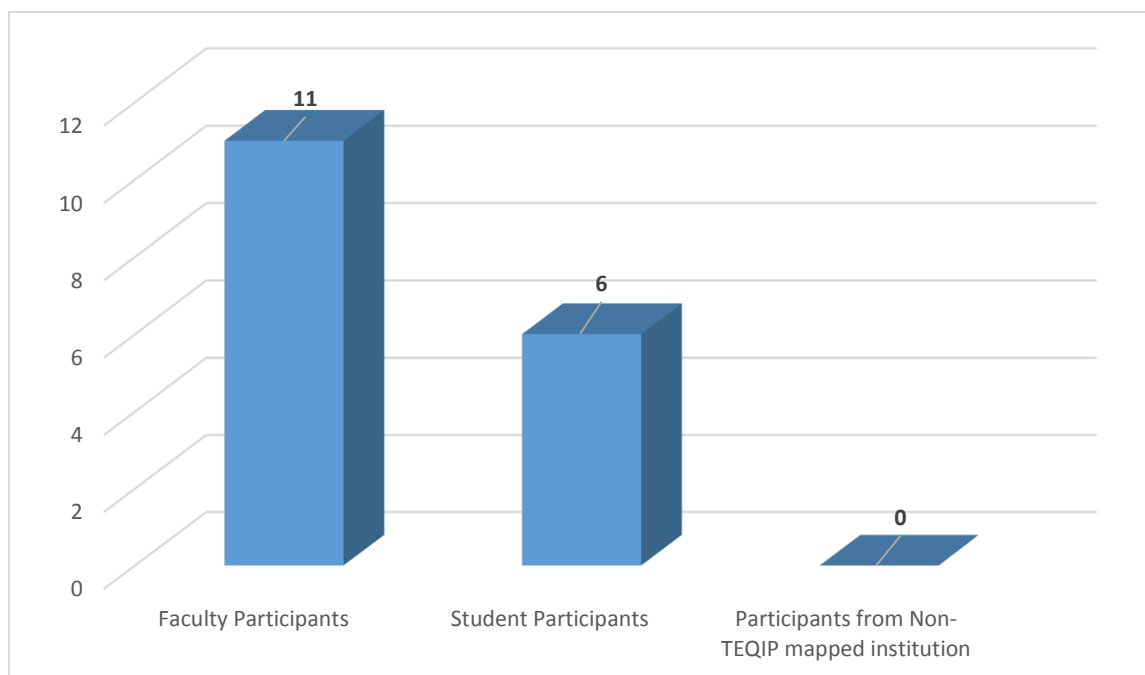
Prof. R. Anandalakshmi
Chemical Engineering

Type of the course: STC
Duration: 09.07.18 to 13.07.18

Total nos. of Faculty Participants: 11

Total nos. of Student Participants: 6

Total nos. of Participants from Non-TEQIP mapped institution: 0





Sustainable Machining Processes

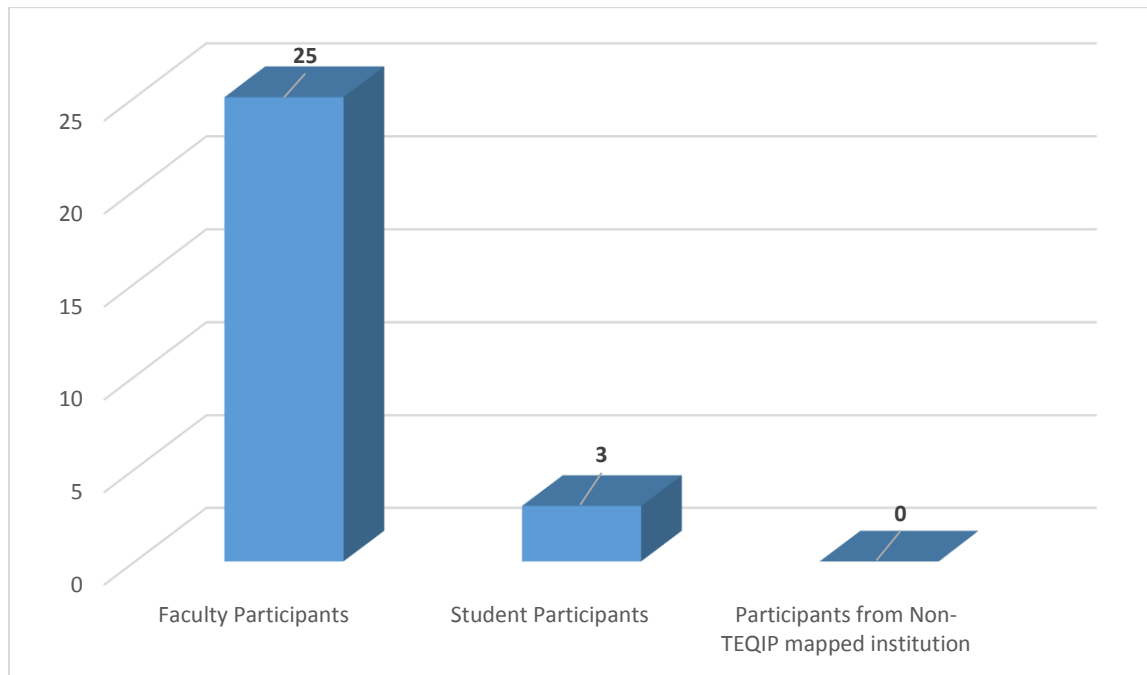
Prof. Mamila Ravi Shankar
Mechanical Engineering

Type of the course: STC Duration: 22.10.18 to 26.10.18

Total nos. of Faculty Participants: 25

Total nos. of Student Participants: 3

Total nos. of Participants from Non-TEQIP mapped institution: 0





Prof. Sudip Mitra
Centre for Rural
Technology

Prof. S. Singha
Centre for Rural
Technology

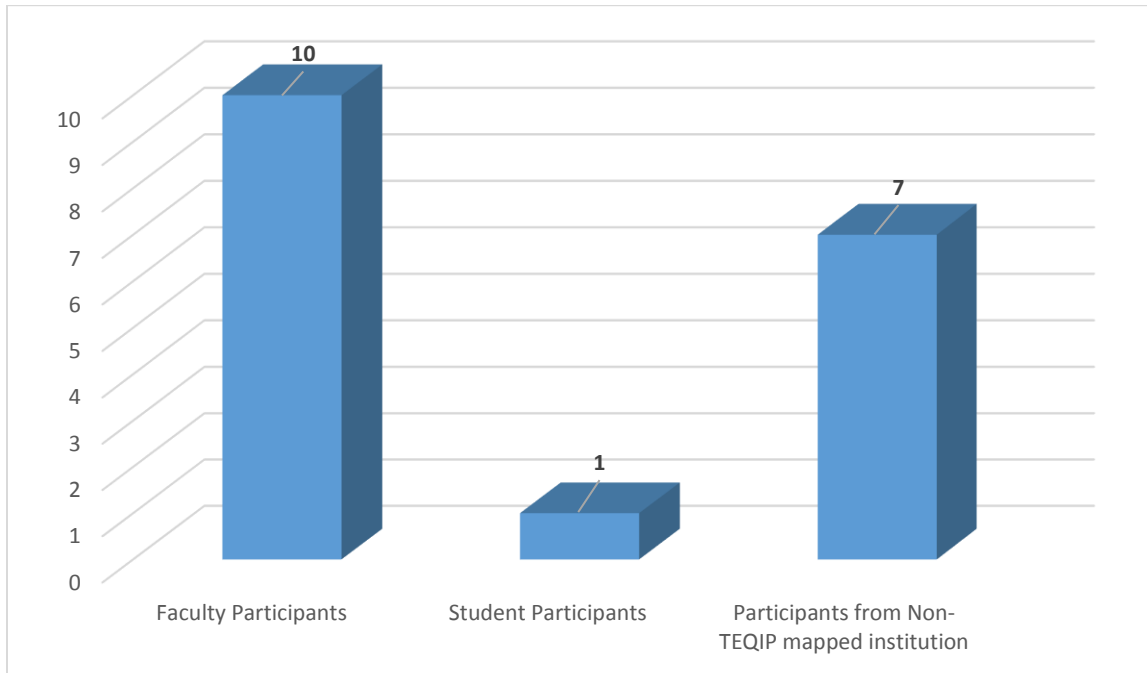
Prof. Meena Khwairakpam
Centre for Rural
Technology

Type of the course: STC
Duration: 29.10.18 TO 02.11.18

Total nos. of Faculty Participants: 10

Total nos. of Student Participants: 1

Total nos. of Participants from Non-TEQIP mapped institution: 7





Energy Efficient and Green Technology

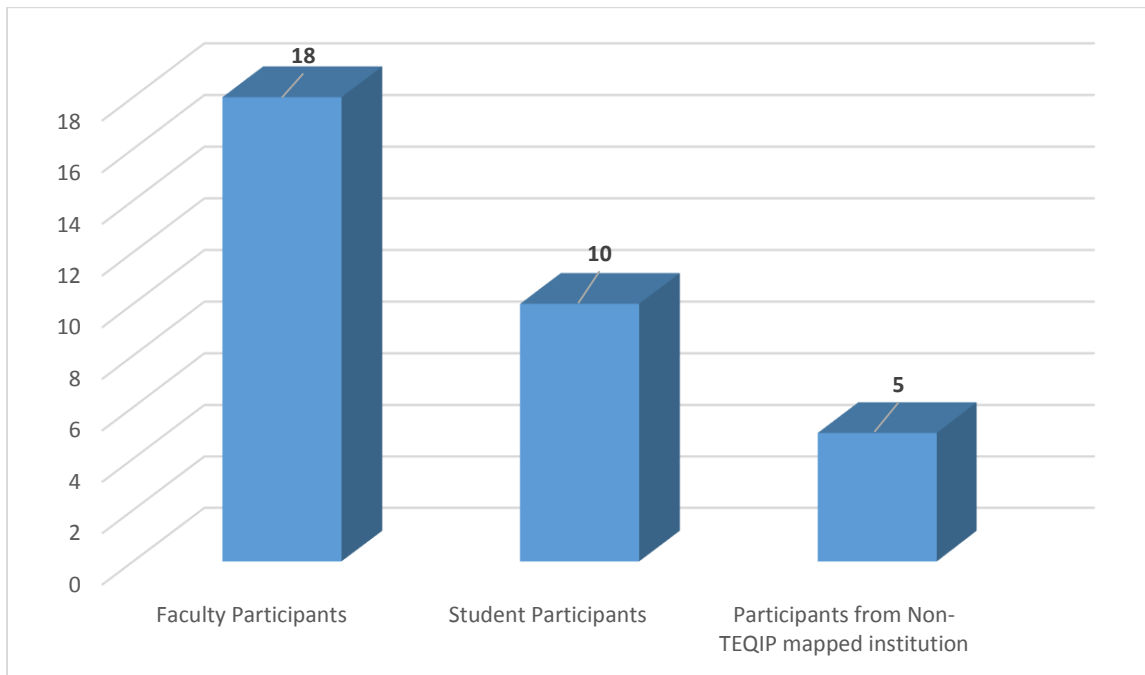
Prof. P. Muthukumar
Mechanical Engineering

Type of the course: STC Duration: 26.11.18 TO 30.11.18

Total nos. of Faculty Participants: 18

Total nos. of Student Participants: 10

Total nos. of Participants from Non-TEQIP mapped institution: 5





Ergonomics in design and engineering education

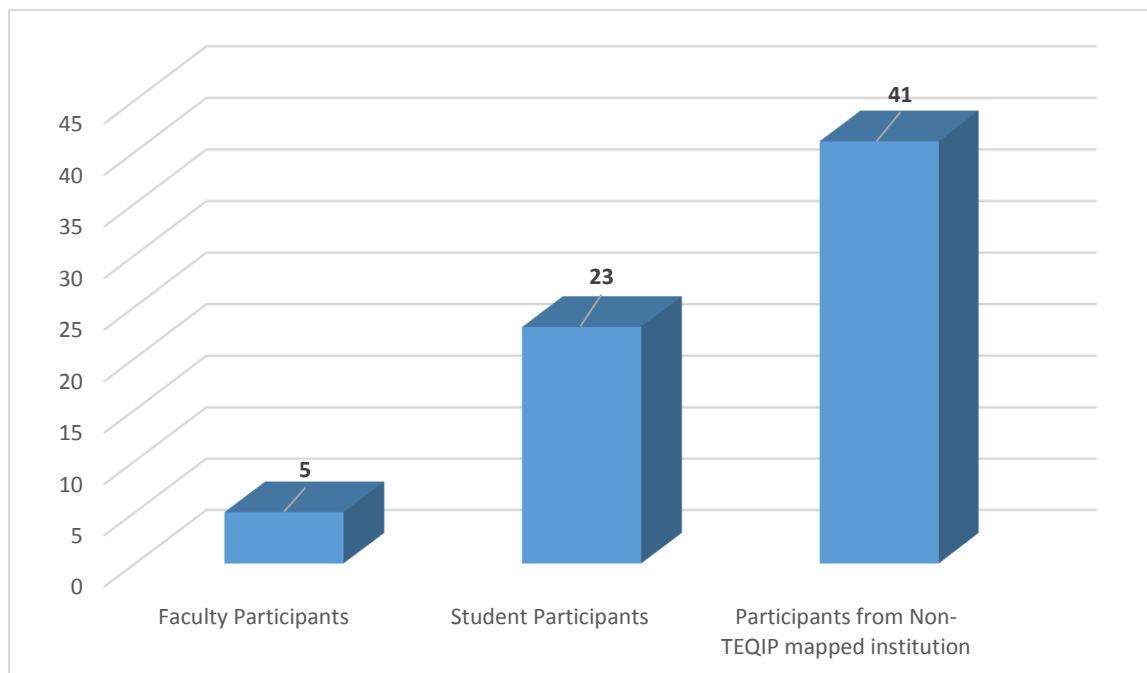
Prof. Sougata Karmakar
Design

Type of the course: STC Duration: 26.11.18 to 30.11.18

Total nos. of Faculty Participants: 5

Total nos. of Student Participants: 23

Total nos. of Participants from Non-TEQIP mapped institution: 41





Flood Risk and River Basin Management

Prof. Rishikesh Bharti
Civil Engineering

Prof. S. Dutta
Civil Engineering

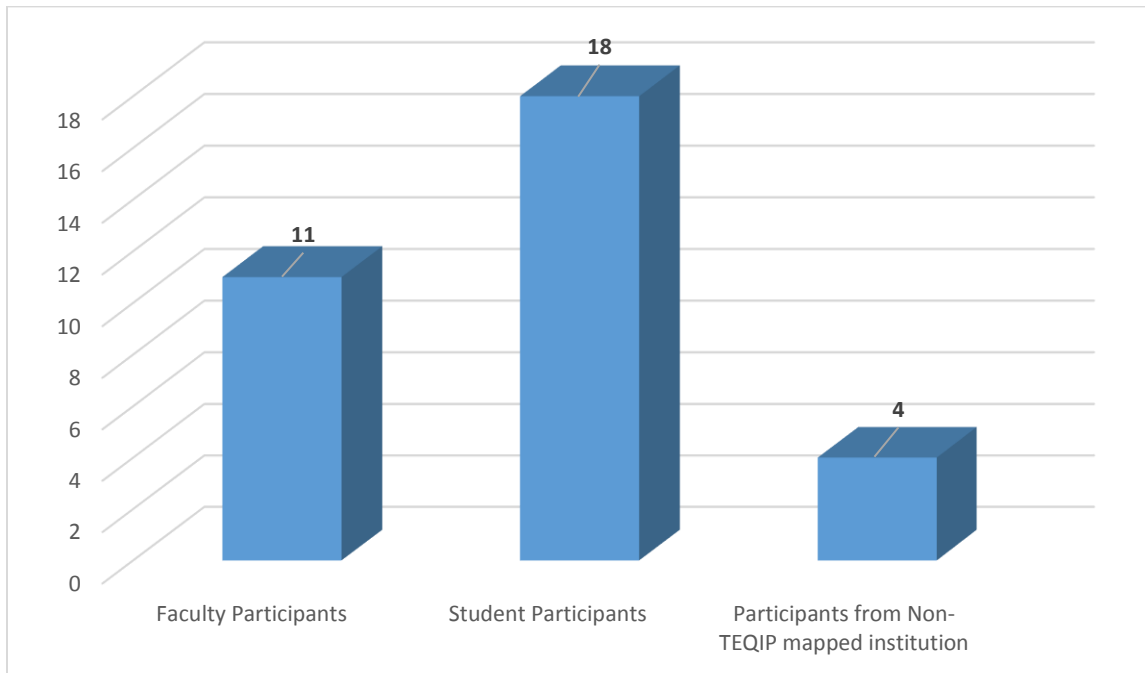
Prof. B. Kumar
Civil Engineering

Type of the course: STC
Duration: 29.10.18 to 02.11.18

Total nos. of Faculty Participants: 11

Total nos. of Student Participants: 18

Total nos. of Participants from Non-TEQIP mapped institution: 4





STC on Vibration and Noise Analysis of Mechanical Systems

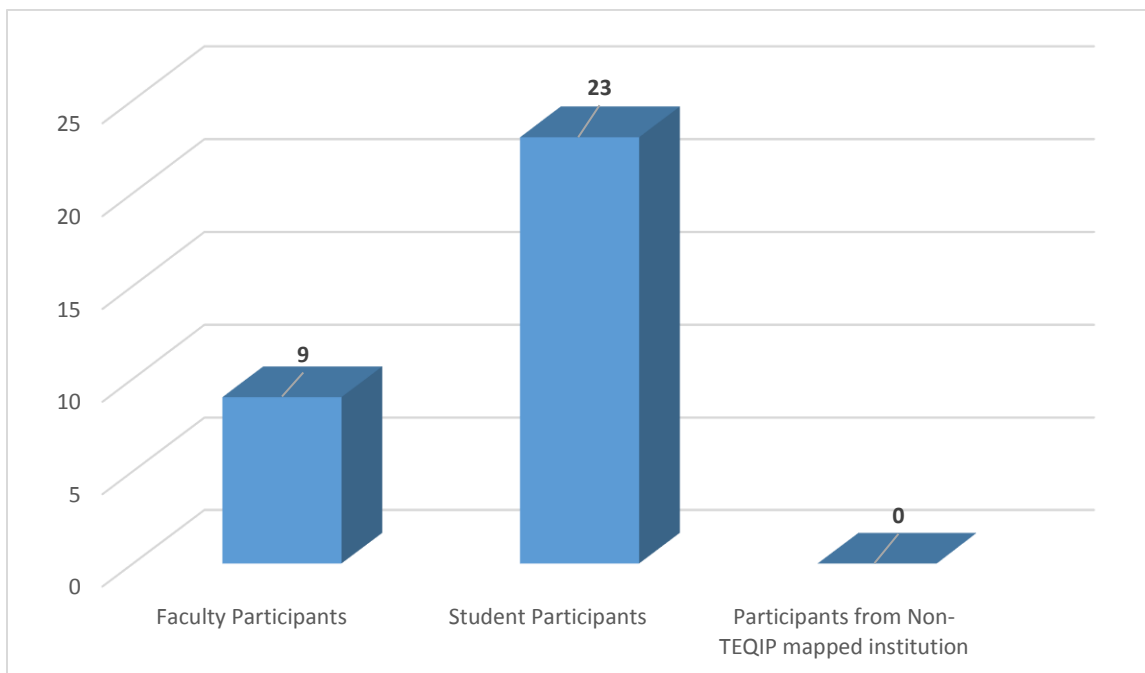
Prof. S. K. Dwivedy
Mechanical Engineering

Type of the course: STC Duration: 04.12.18 to 08.12.18

Total nos. of Faculty Participants: 9

Total nos. of Student Participants: 23

Total nos. of Participants from Non-TEQIP mapped institution: 0





Advanced Computer Architecture

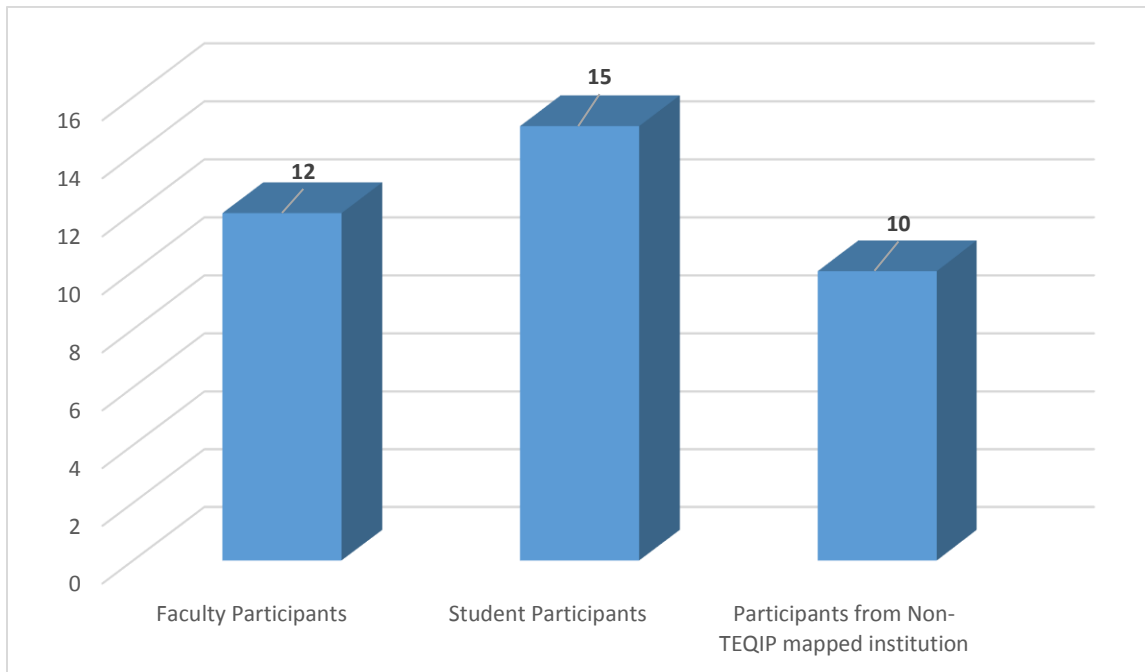
Prof. John Jose
Computer Science &
Engineering

Type of the course: STC Duration: 10.12.18 to 14.12.18

Total nos. of Faculty Participants: 12

Total nos. of Student Participants: 15

Total nos. of Participants from Non-TEQIP mapped institution: 10





Recent Advances in Applied Optimization

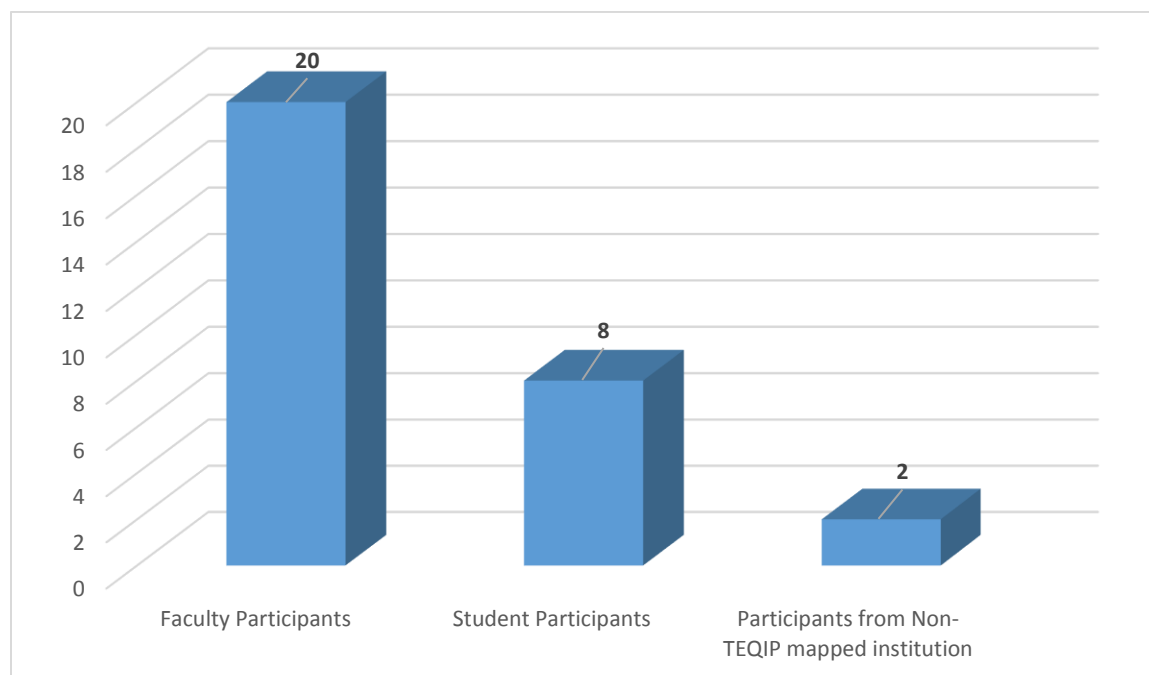
Prof. Prakash Kotecha
Chemical Engineering

Type of the course: STC Duration: 24.12.18 to 28.12.18

Total nos. of Faculty Participants: 20

Total nos. of Student Participants: 8

Total nos. of Participants from Non-TEQIP mapped institution: 2





Recent Trends in Renewable Energy Utilization Technologies

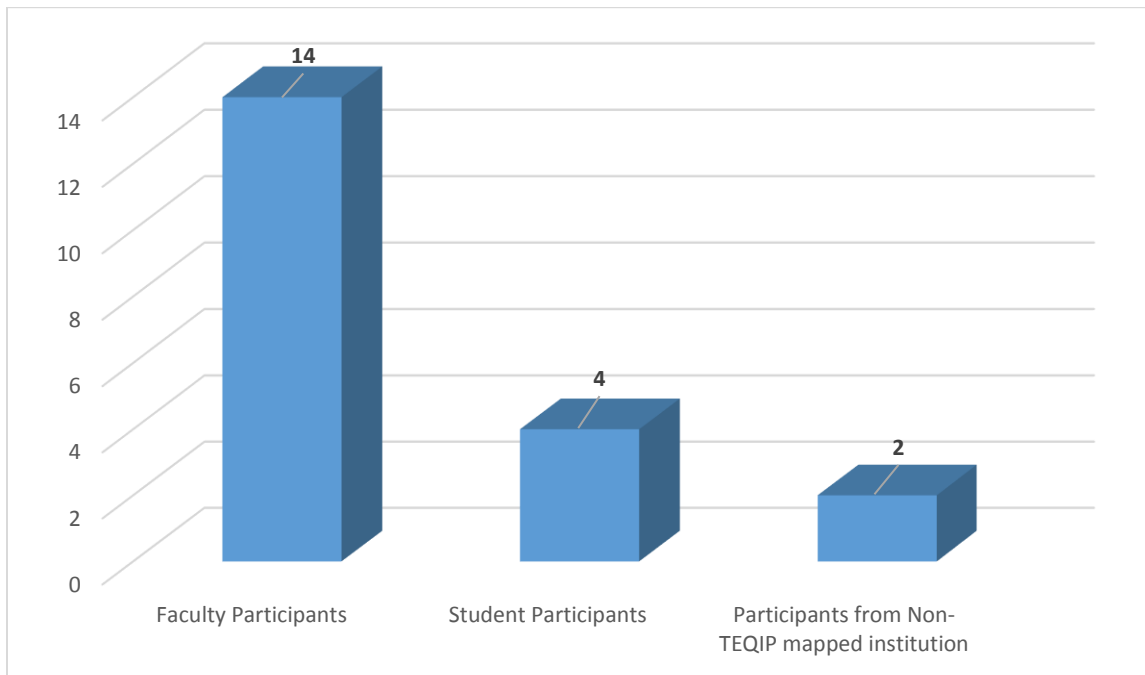
Prof. P. Muthukumar
Mechanical Engineering

Type of the course: STC Duration: 08.05.19 to 12.05.19

Total nos. of Faculty Participants: 14

Total nos. of Student Participants: 4

Total nos. of Participants from Non-TEQIP mapped institution: 2





Workshop on Effective Teaching

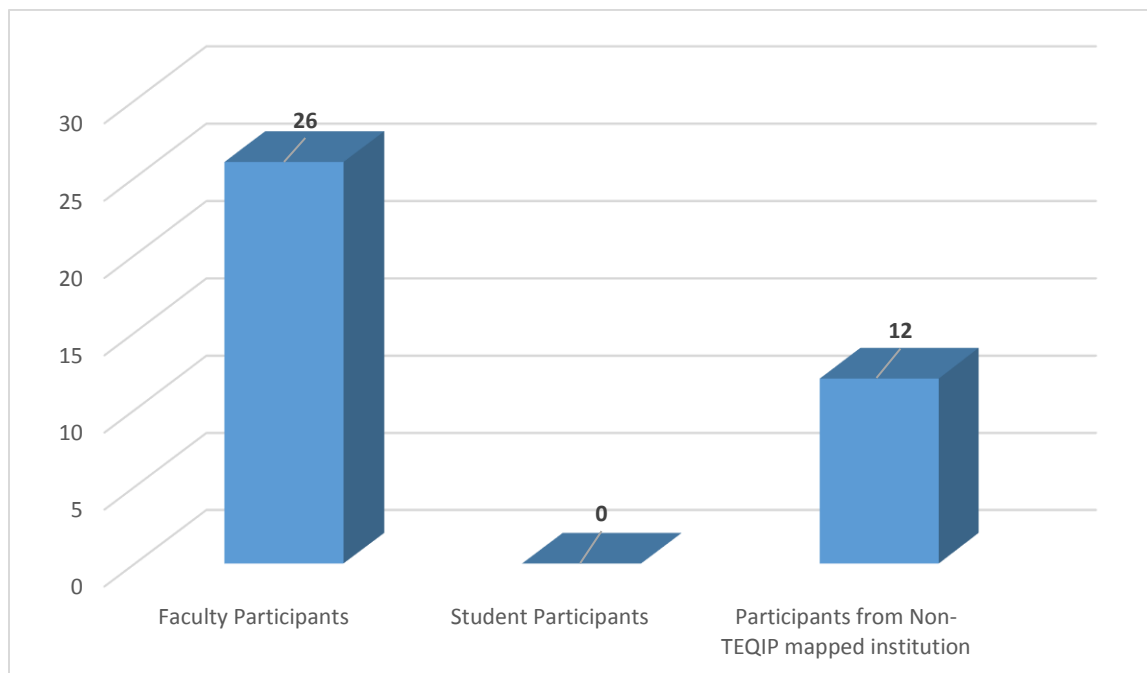
Prof. John Jose
Computer Science &
Engineering

Type of the course: STC Duration: 03.06.19 to 07.06.19

Total nos. of Faculty Participants: 26

Total nos. of Student Participants: 0

Total nos. of Participants from Non-TEQIP mapped institution: 12





Clean Energy Technologies

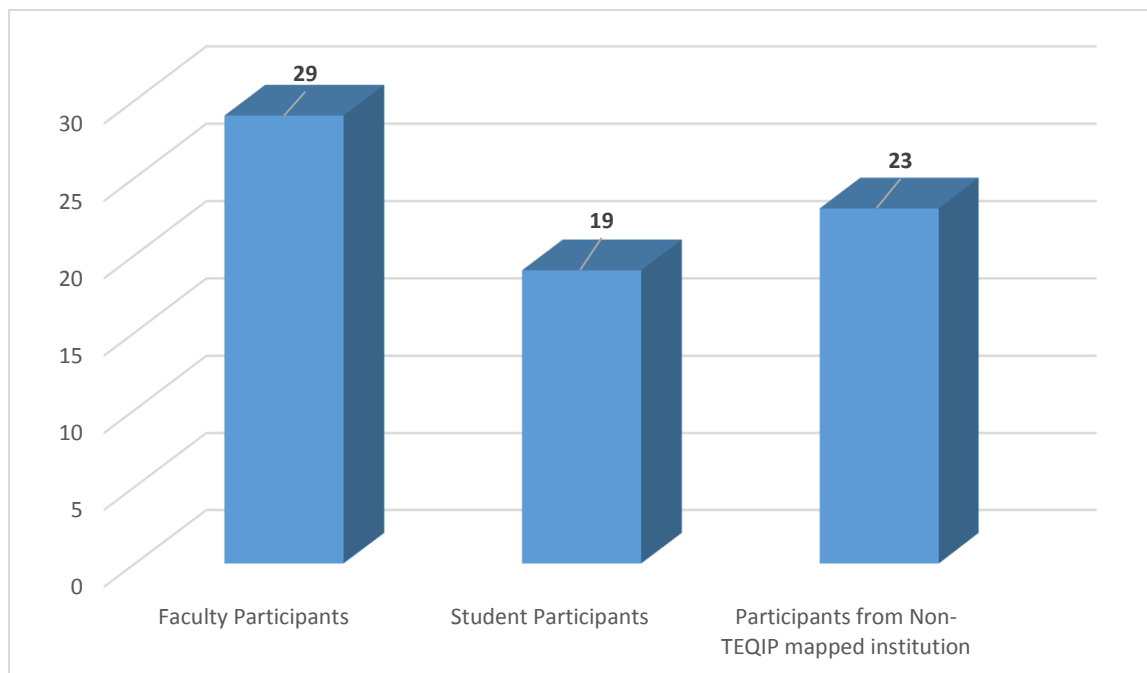
Prof. Pankaj Kalita
Centre for Energy

Type of the course: STC Duration: 10.06.19 to 14.06.19

Total nos. of Faculty Participants: 29

Total nos. of Student Participants: 19

Total nos. of Participants from Non-TEQIP mapped institution: 23





Computational Fluid Dynamics for Incompressible Flow

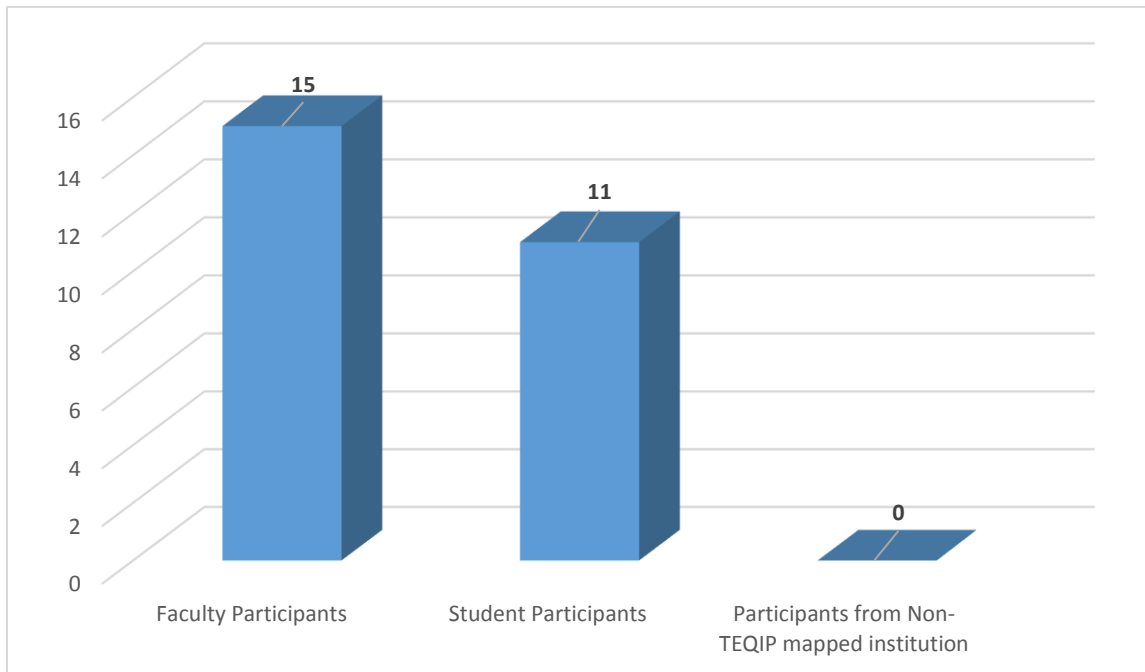
Prof. Amaresh Dalal
Mechanical Engineering

Type of the course: STC Duration: 17.06.19 to 21.06.19

Total nos. of Faculty Participants: 15

Total nos. of Student Participants: 11

Total nos. of Participants from Non-TEQIP mapped institution: 0





Computer Aided Applied Numerical & Optimization Techniques

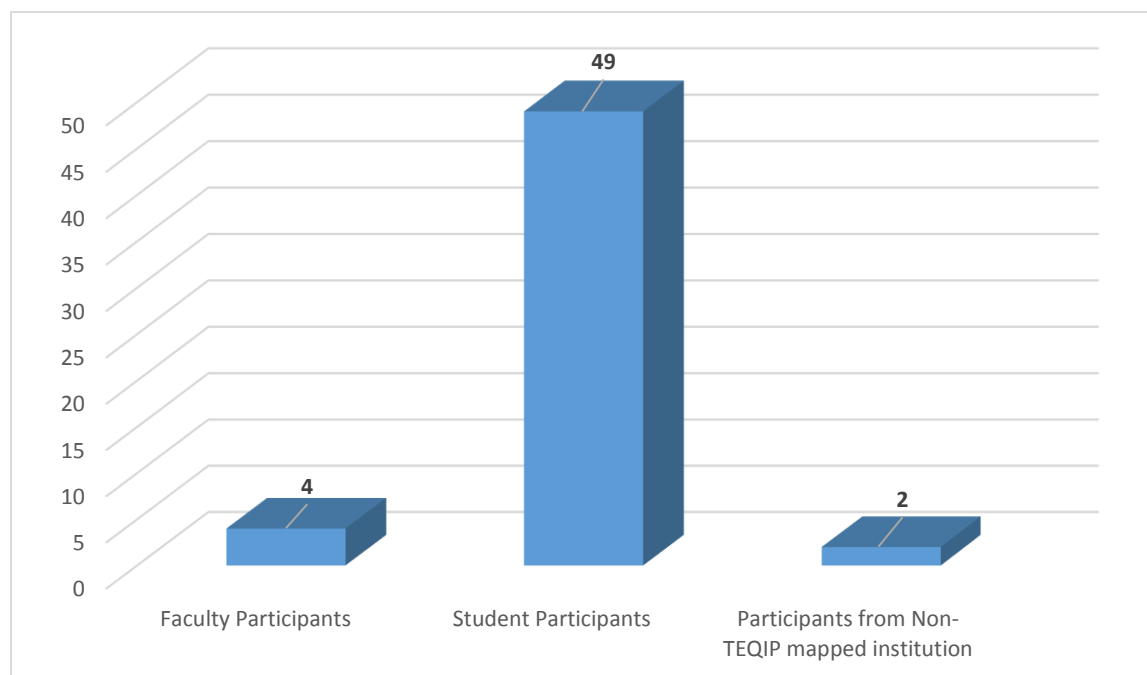
Prof. Prakash Kotecha
Chemical Engineering

Type of the course: STC Duration: 26.12.19 to 30.12.19

Total nos. of Faculty Participants: 4

Total nos. of Student Participants: 49

Total nos. of Participants from Non-TEQIP mapped institution: 2





Introduction to the Digital Humanities

Prof. Debapriya Basu
Humanities and Social Sciences

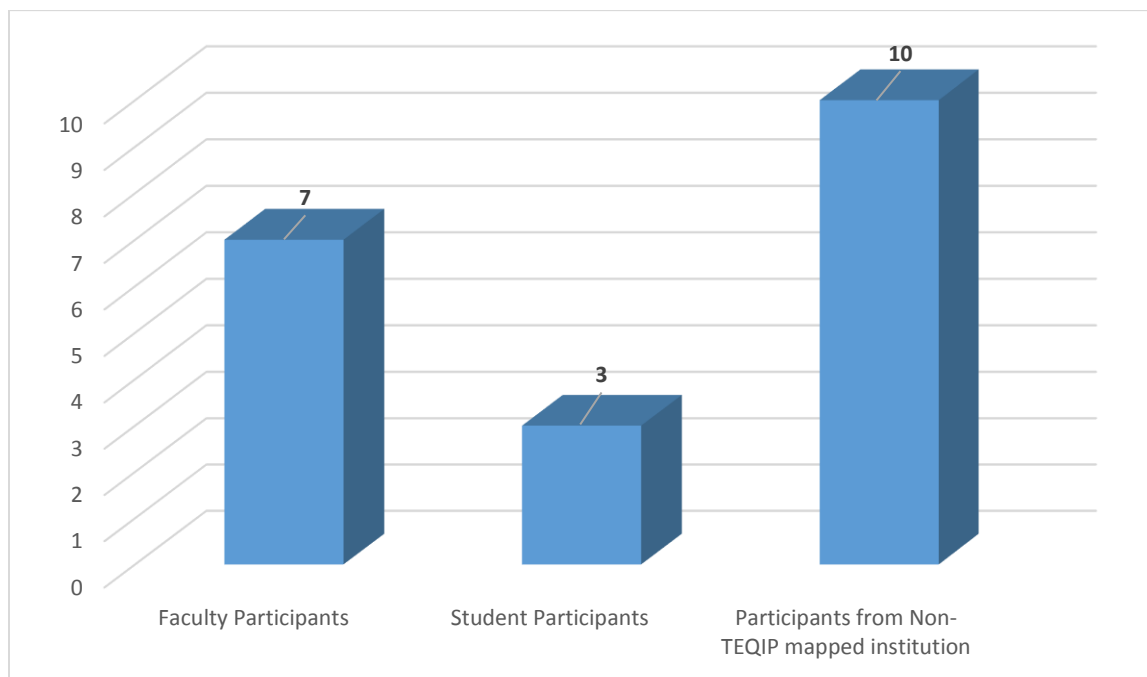
Prof. Kiran Keshavamurthy
Humanities and Social Sciences

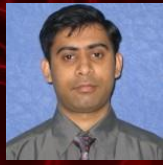
Type of the course: STC Duration: 19.02.19 to 20.02.19

Total nos. of Faculty Participants: 7

Total nos. of Student Participants: 3

Total nos. of Participants from Non-TEQIP mapped institution: 10





Deep Learning for Natural Language Processing

Prof. Amit Awekar
Computer Science &
Engineering

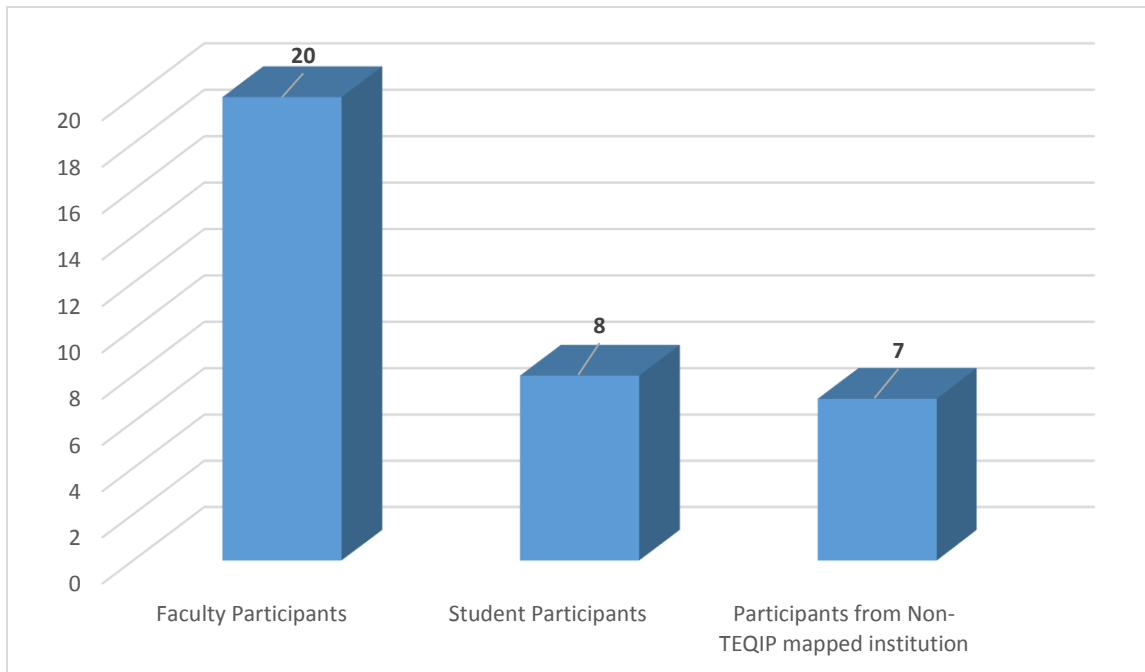
Prof. Ashish Anand
Computer Science &
Engineering

Type of the course: STC Duration: 18.11.19 to 22.11.19

Total nos. of Faculty Participants: 20

Total nos. of Student Participants: 8

Total nos. of Participants from Non-TEQIP mapped institution: 7





Quantification of Seismic Hazard and Mitigation of Induced Effects in NER

Prof. Abhishek Kumar
Civil Engineering

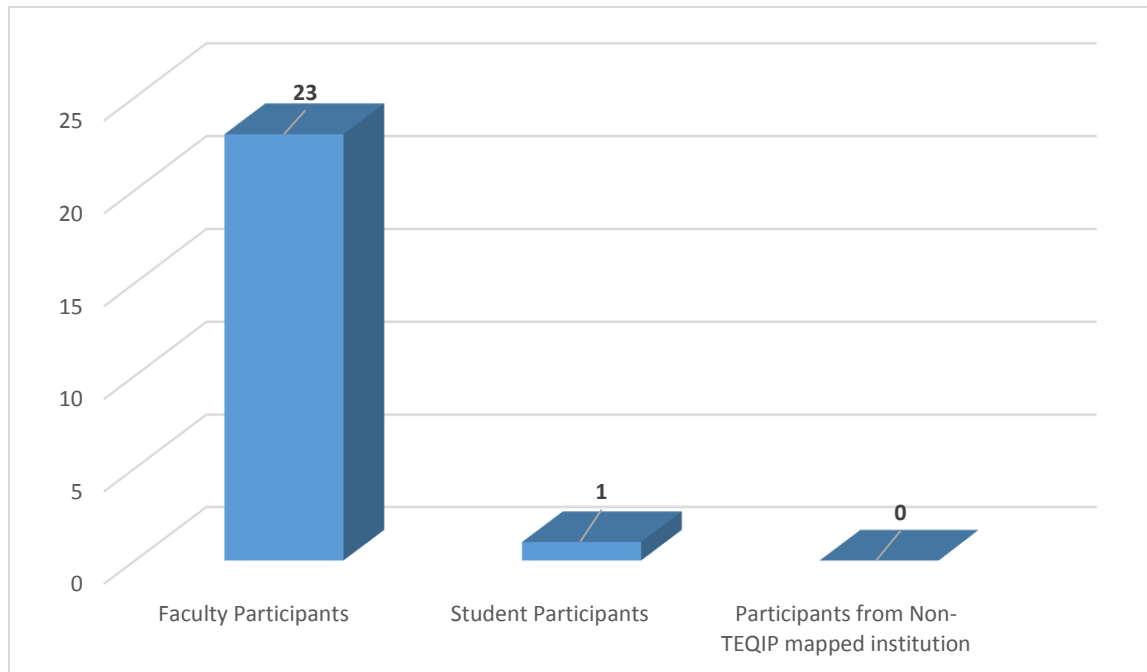
Prof. H. B. Kaushik
Civil Engineering

Type of the course: STC Duration: 07.11.19 to 08.11.19

Total nos. of Faculty Participants: 23

Total nos. of Student Participants: 1

Total nos. of Participants from Non-TEQIP mapped institution: 0





Advances in Integrated Water Resources Management

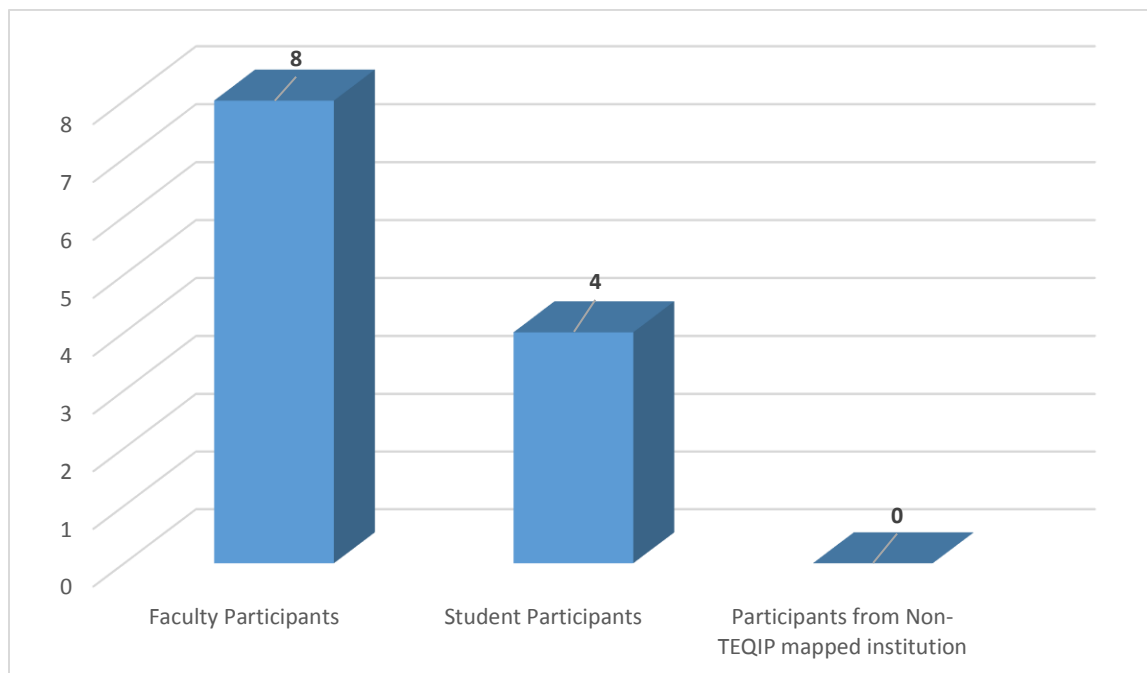
Prof. Rajib Kumar Bhattacharjya
Civil Engineering

Type of the course: STC Duration: 16.12.19 to 18.12.19

Total nos. of Faculty Participants: 8

Total nos. of Student Participants: 4

Total nos. of Participants from Non-TEQIP mapped institution: 0





Durable Bituminous Pavements- Theory and Practice

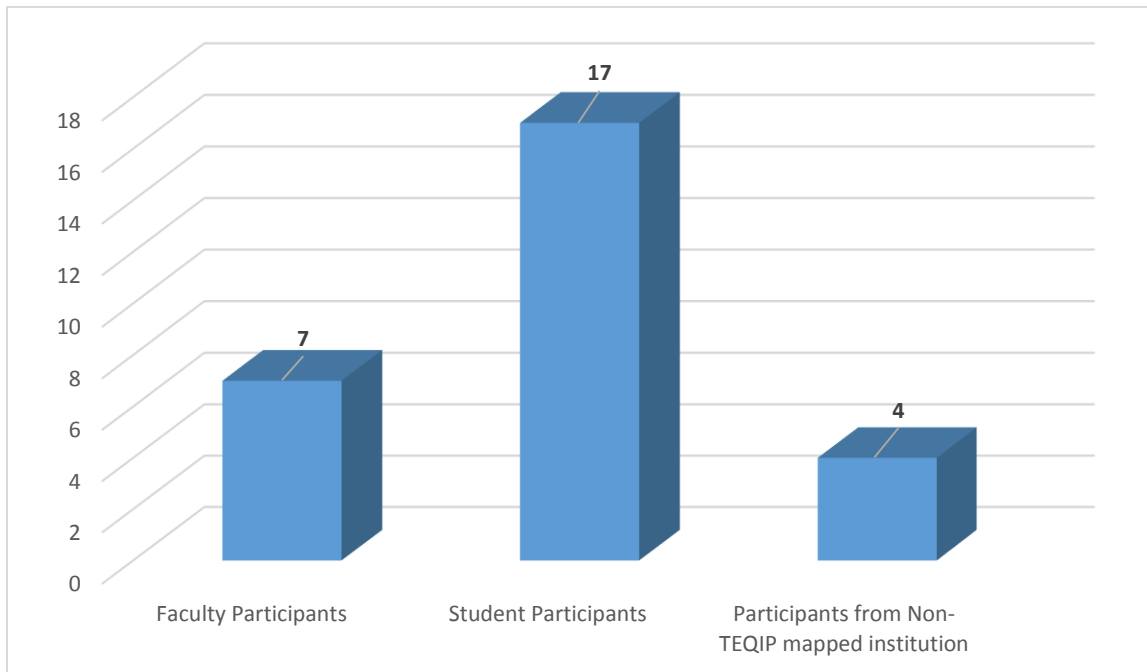
Prof. Anjan Kumar S
Civil Engineering

Type of the course: STC Duration: 09.12.19 to 13.12.19

Total nos. of Faculty Participants: 7

Total nos. of Student Participants: 17

Total nos. of Participants from Non-TEQIP mapped institution: 4





Implementation of Ergonomics in Manufacturing Industries

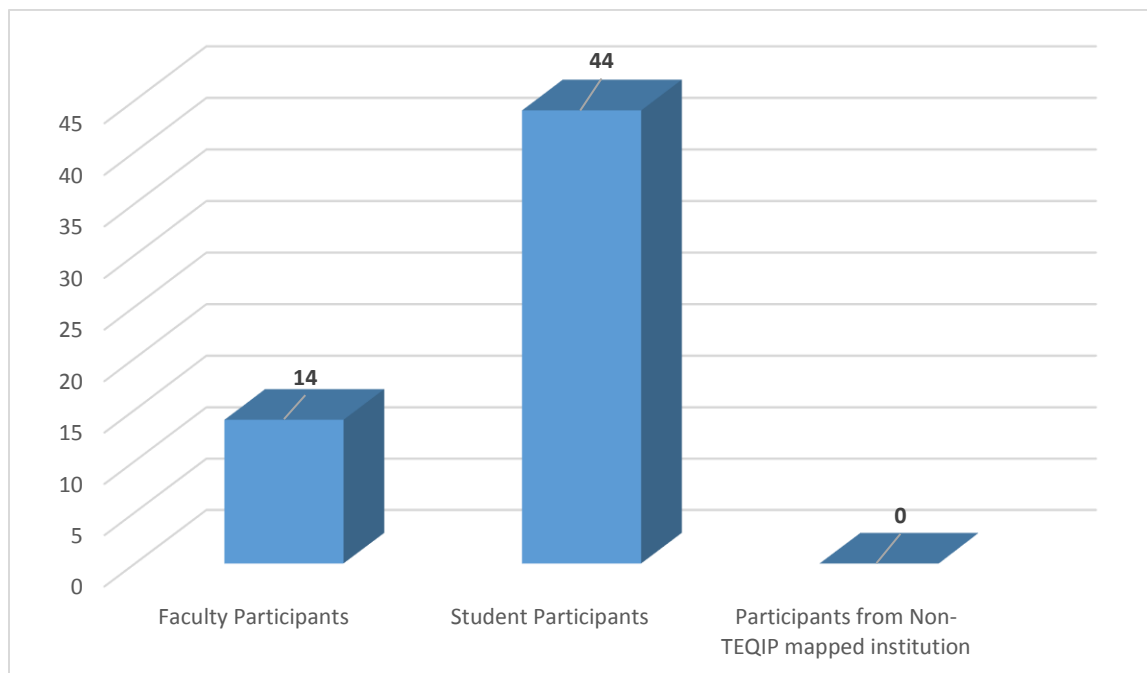
Prof. Urmi Ravindra Salve
Design

Type of the course: STC Duration: 24.11.19 to 28.11.19

Total nos. of Faculty Participants: 14

Total nos. of Student Participants: 44

Total nos. of Participants from Non-TEQIP mapped institution: 0





Fabrication and application of micro Devices in Thermo-fluidic Engineering

Prof. Pranab Kr. Mondal
Mechanical Engineering

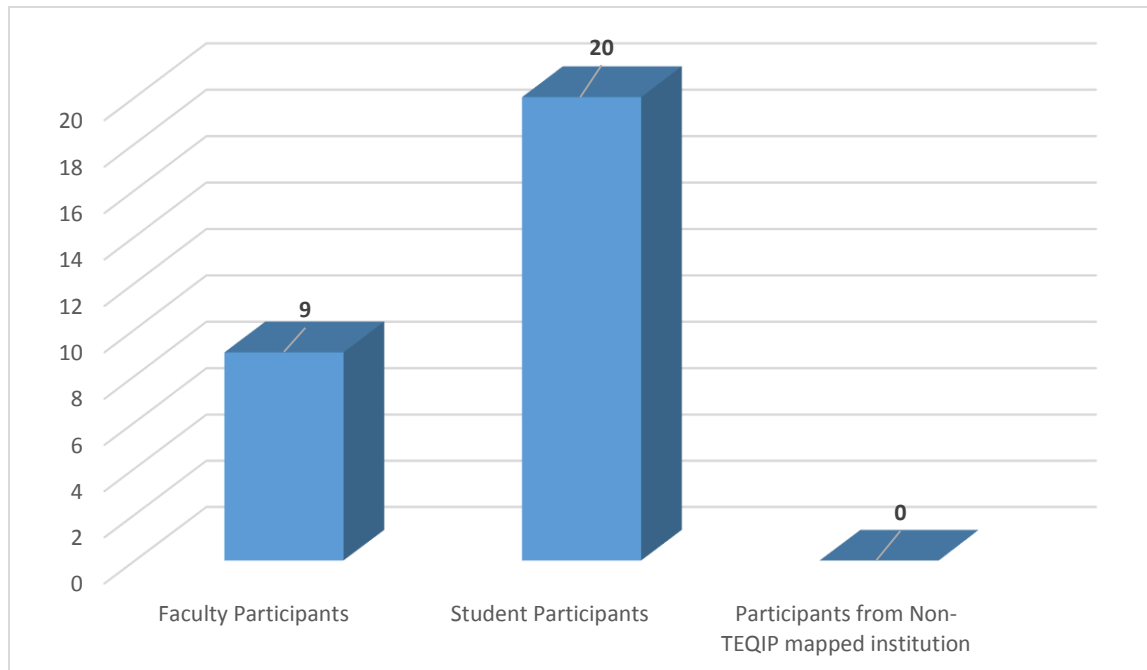
Prof. Pankaj Biswas
Mechanical Engineering

Type of the course: STC Duration: 09.12.19 to 13.12.19

Total nos. of Faculty Participants: 9

Total nos. of Student Participants: 20

Total nos. of Participants from Non-TEQIP mapped institution: 0





Fundamental of Robotics and Artificial Intelligence

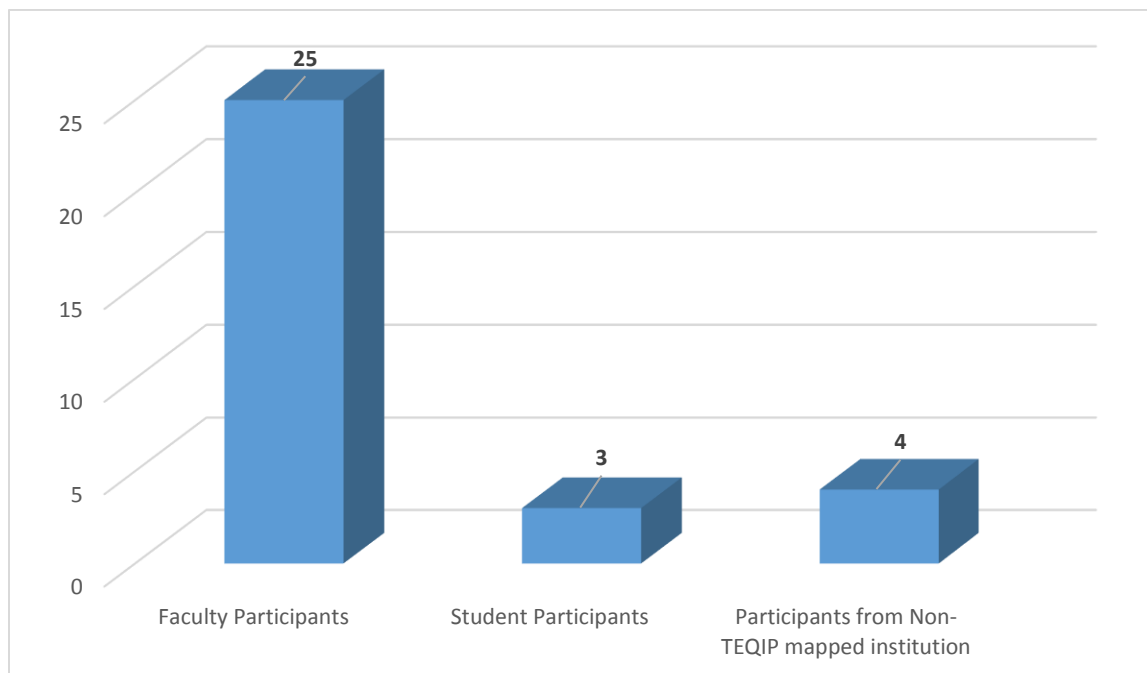
Prof. S. M. Hazarika
Mechanical Engineering

Type of the course: STC Duration: 04.02.19 to 08.02.19

Total nos. of Faculty Participants: 25

Total nos. of Student Participants: 3

Total nos. of Participants from Non-TEQIP mapped institution: 4





Environmental Air and Noise Pollution: Measurements and Modelling

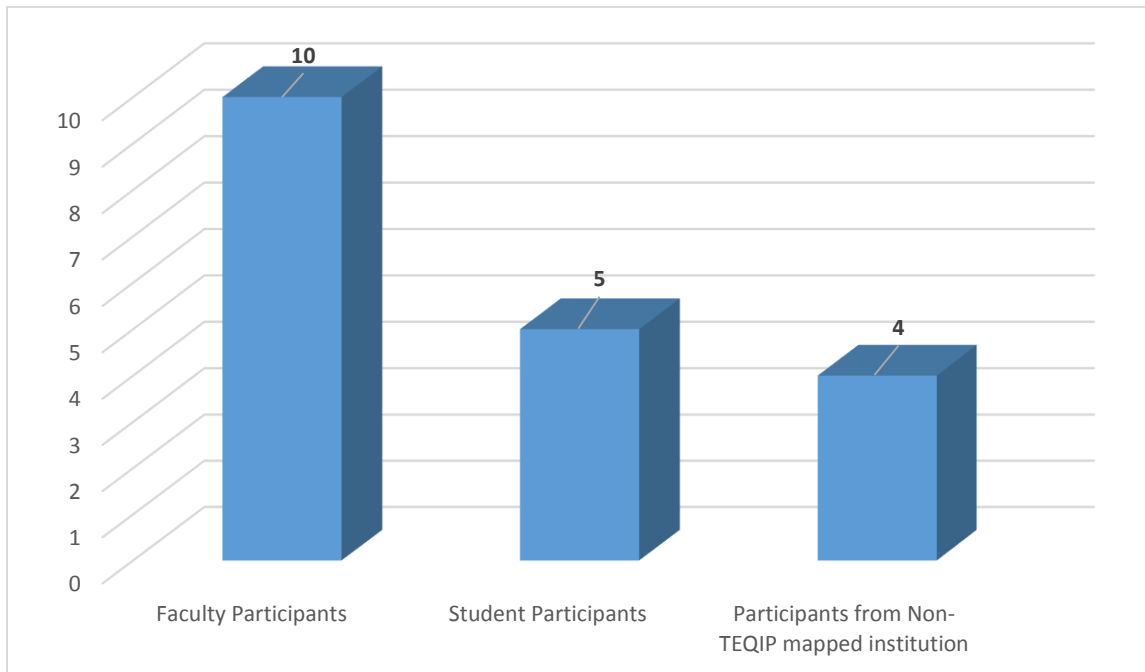
Prof. Sharad Gokhale
Civil Engineering

Type of the course: STC Duration: 22.04.19 to 26.04.19

Total nos. of Faculty Participants: 10

Total nos. of Student Participants: 5

Total nos. of Participants from Non-TEQIP mapped institution: 4





Advanced Pedagogies: Active learning and Digital Tools

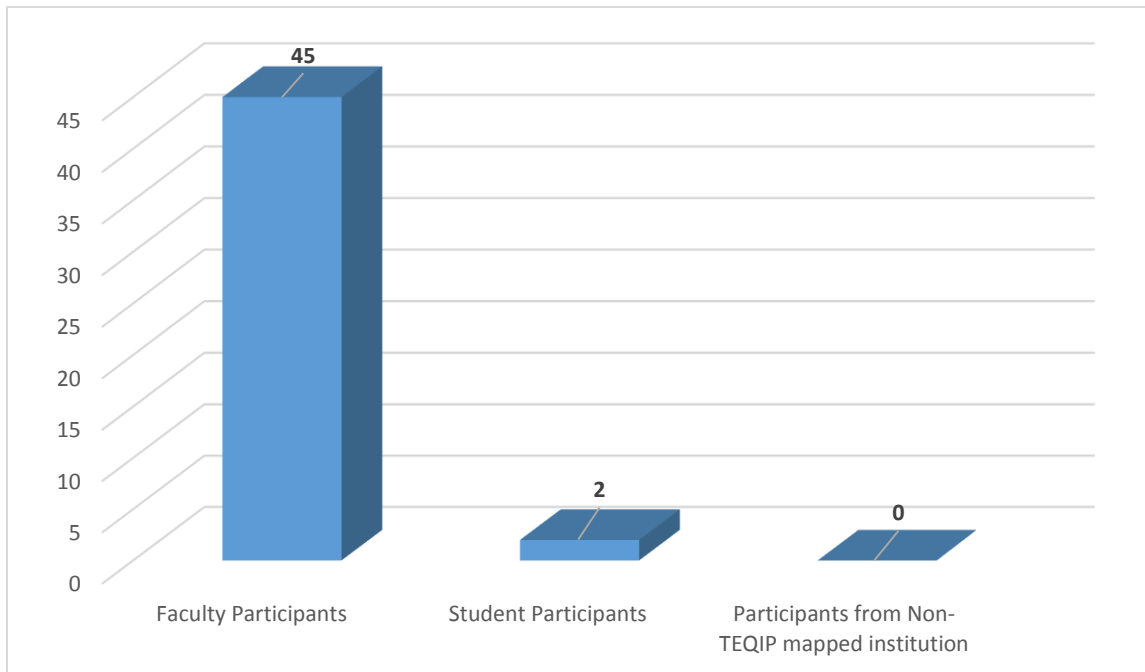
Prof. S. Khijwania
Physics

Type of the course: STC Duration: 24.06.19 to 28.06.19

Total nos. of Faculty Participants: 45

Total nos. of Student Participants: 2

Total nos. of Participants from Non-TEQIP mapped institution: 0





Advanced Pedagogies: Active learning and Digital Tools

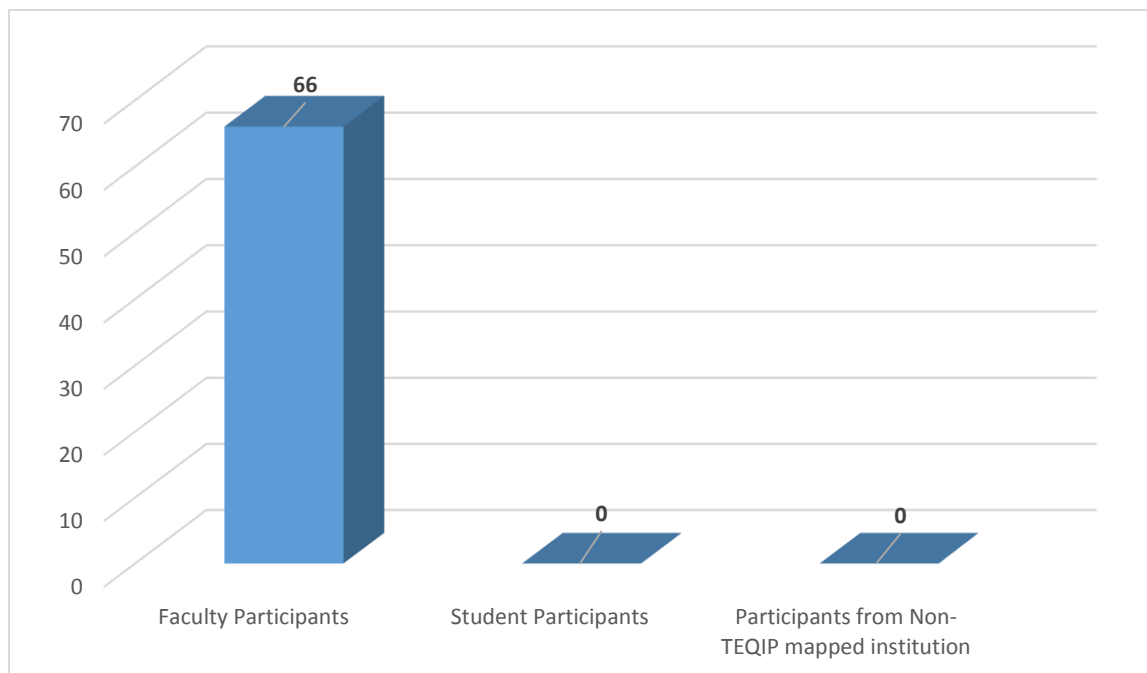
Prof. S. Khijwania
Physics

Type of the course: STC Duration: 01.07.19 to 05.07.19

Total nos. of Faculty Participants: 66

Total nos. of Student Participants: 0

Total nos. of Participants from Non-TEQIP mapped institution: 0





Mechanics and Composites for engineering applications

Prof. Poonam Kumari
Mechanical Engineering

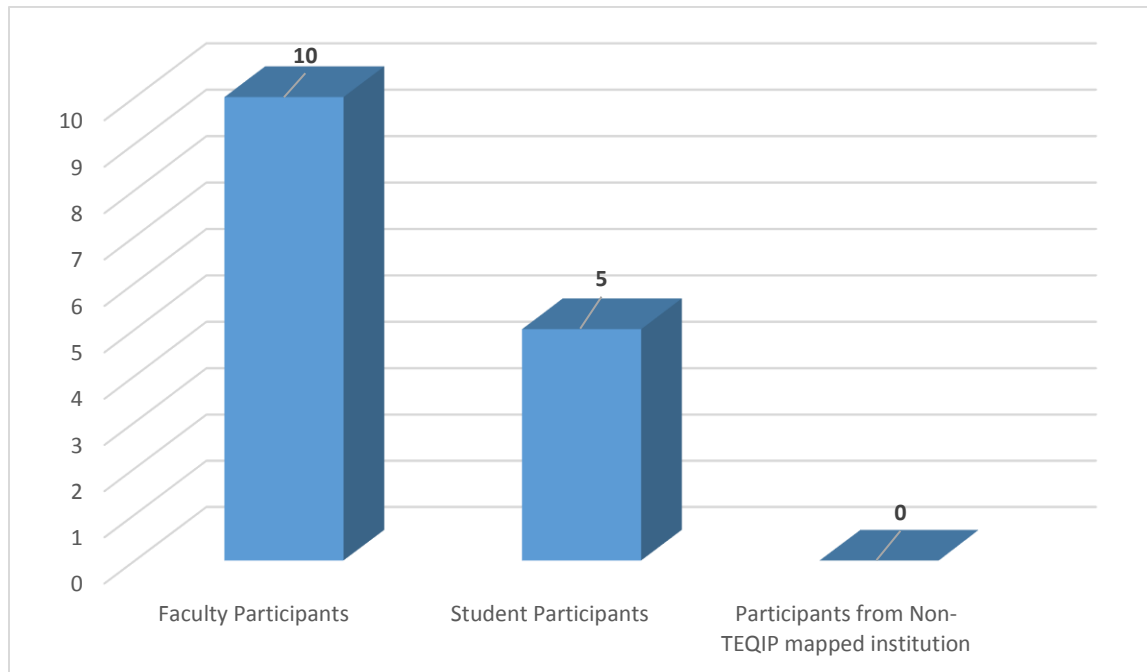
Prof. Nelson Muthu
Mechanical Engineering

Type of the course: STC Duration: 21.05.19 to 25.05.19

Total nos. of Faculty Participants: 10

Total nos. of Student Participants: 5

Total nos. of Participants from Non-TEQIP mapped institution: 0





Rise of Arsenicosis and fluorosis like diseases in the North-Eastern states of India- Technologies and techniques for mitigation

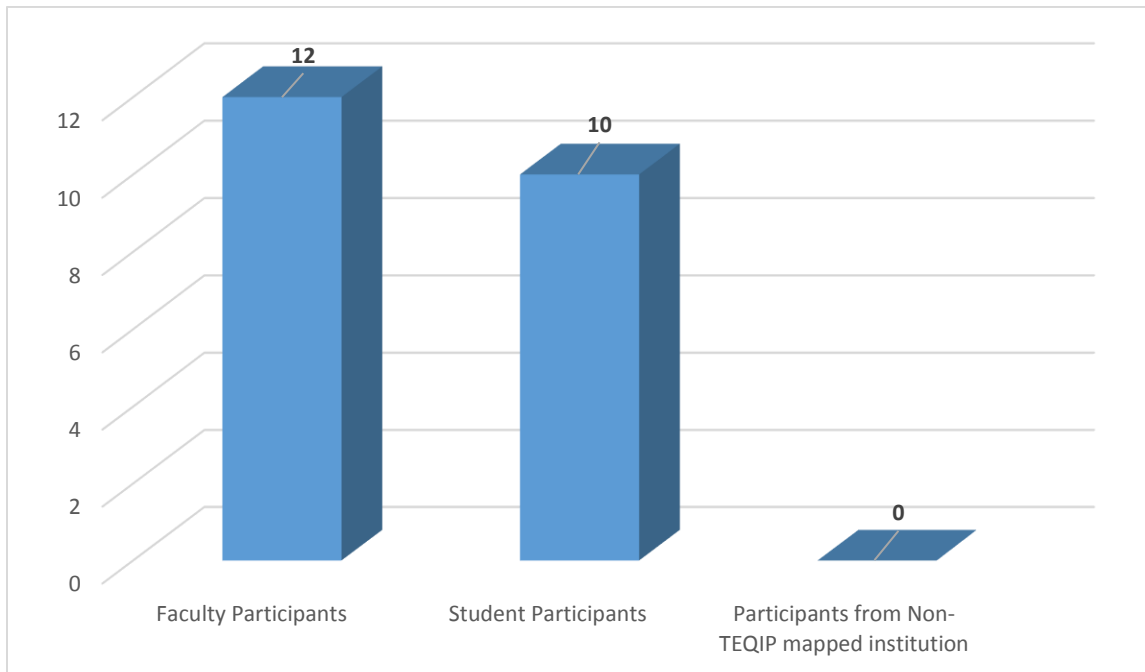
Prof. Mihir Kumar Purkait
Chemical Engineering

Type of the course: STC Duration: 21.02.20 to 22.02.20

Total nos. of Faculty Participants: 12

Total nos. of Student Participants: 10

Total nos. of Participants from Non-TEQIP mapped institution: 0





Ergonomics in design and engineering education

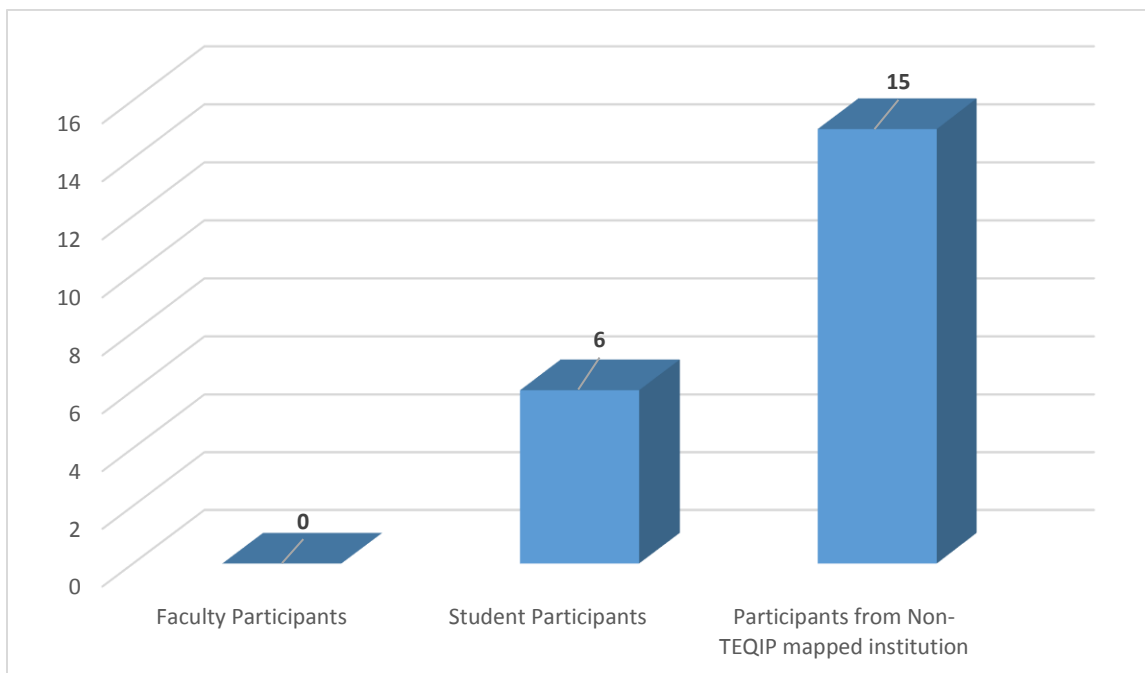
Prof. Sougata Karmakar
Design

Type of the course: STC Duration: 07.01.20 to 11.01.20

Total nos. of Faculty Participants: 0

Total nos. of Student Participants: 6

Total nos. of Participants from Non-TEQIP mapped institution: 15





3D Printing and Allied Technologies

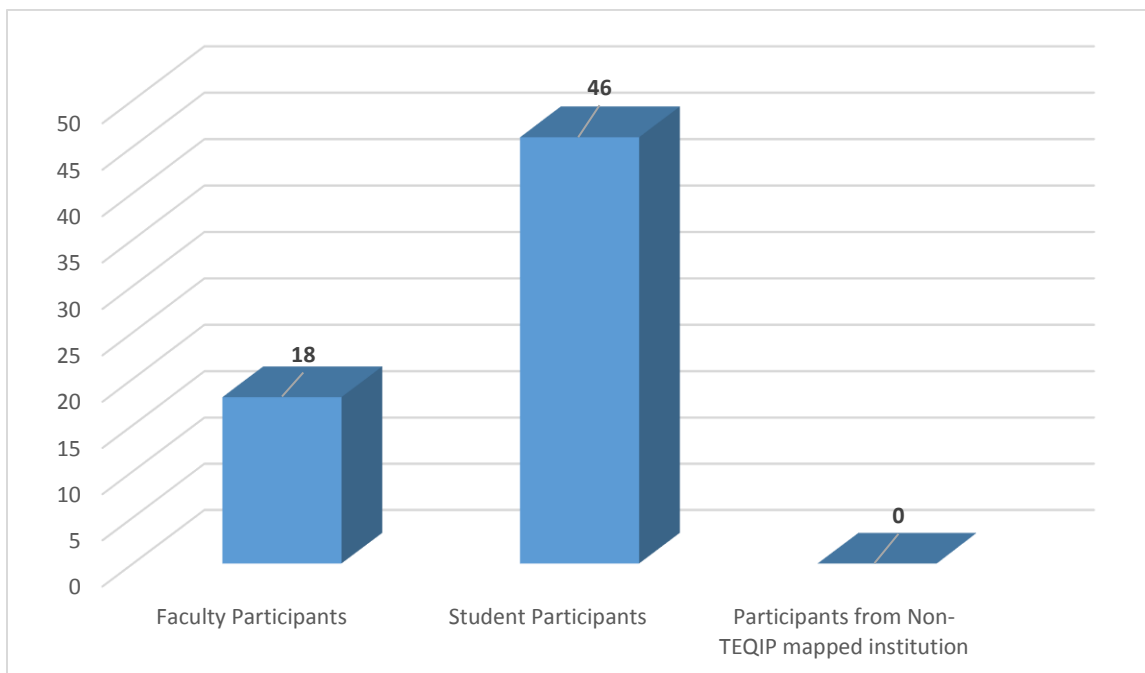
Prof. Sajan Kapil
Mechanical Engineering

Type of the course: STC Duration: 06.01.20 to 10.01.20

Total nos. of Faculty Participants: 18

Total nos. of Student Participants: 46

Total nos. of Participants from Non-TEQIP mapped institution: 0





Active/passive damping composites for structural vibration control

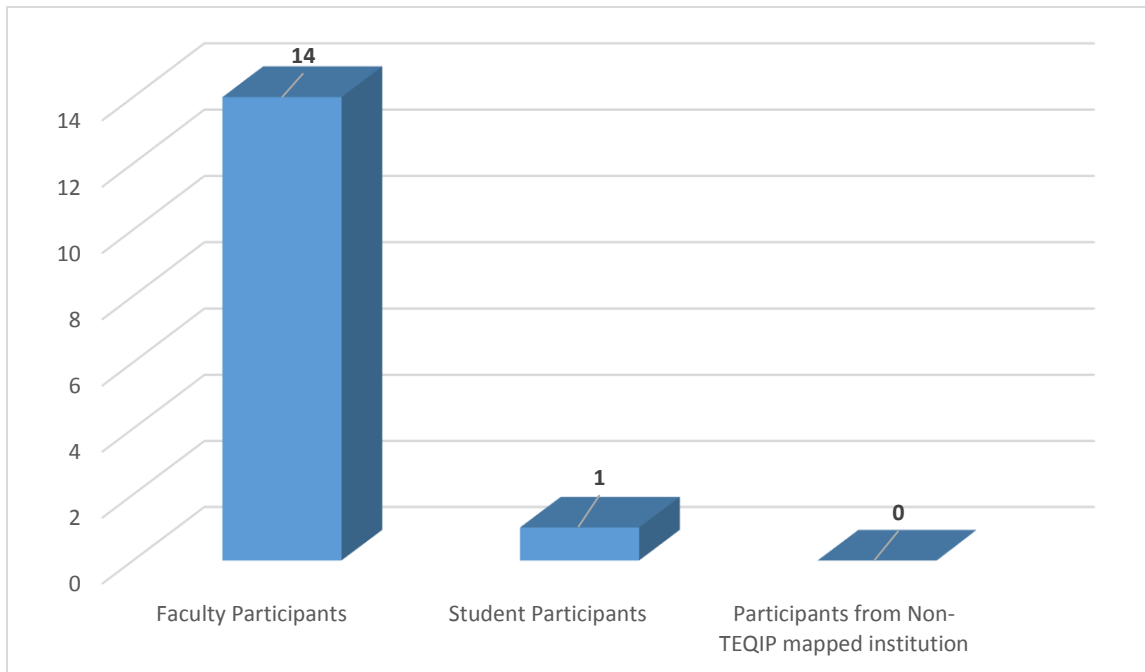
Prof. Satyajit Panda
Mechanical Engineering

Type of the course: STC Duration: 06.01.20 to 10.01.20

Total nos. of Faculty Participants: 14

Total nos. of Student Participants: 1

Total nos. of Participants from Non-TEQIP mapped institution: 0





Fabrication and application of micro Devices in Thermo-fluidic Engineering

Prof. Pranab Kr. Mondal
Mechanical Engineering

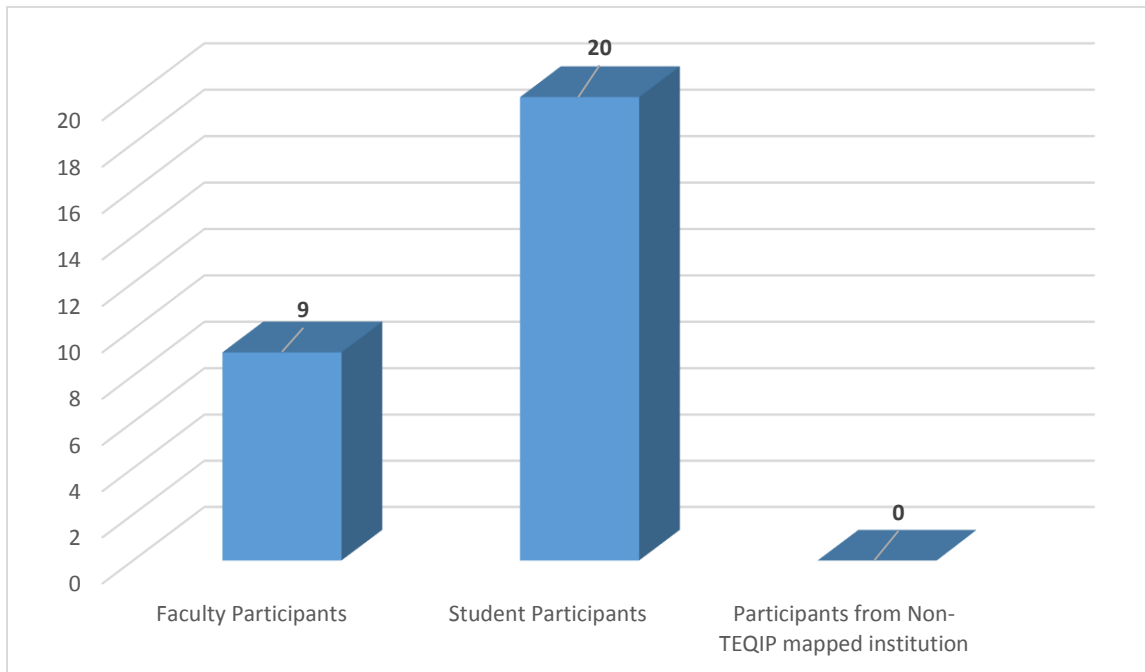
Prof. Pankaj Biswas
Mechanical Engineering

Type of the course: STC Duration: 24.02.20 to 28.02.20

Total nos. of Faculty Participants: 9

Total nos. of Student Participants: 20

Total nos. of Participants from Non-TEQIP mapped institution: 0





Robotics and Automation

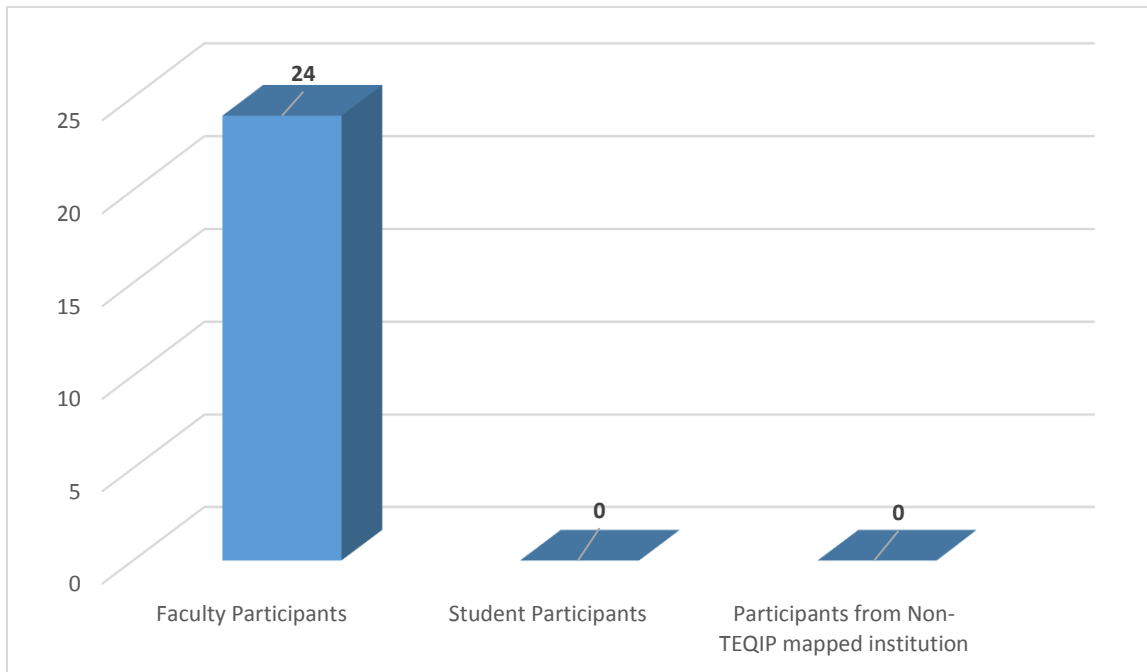
Prof. S. N. Joshi
Mechanical Engineering

Type of the course: STC Duration: 03.03.20 to 13.03.20

Total nos. of Faculty Participants: 24

Total nos. of Student Participants: 0

Total nos. of Participants from Non-TEQIP mapped institution: 0





Advances in Separation Techniques

Prof. Chandan Das
Centre for Environment

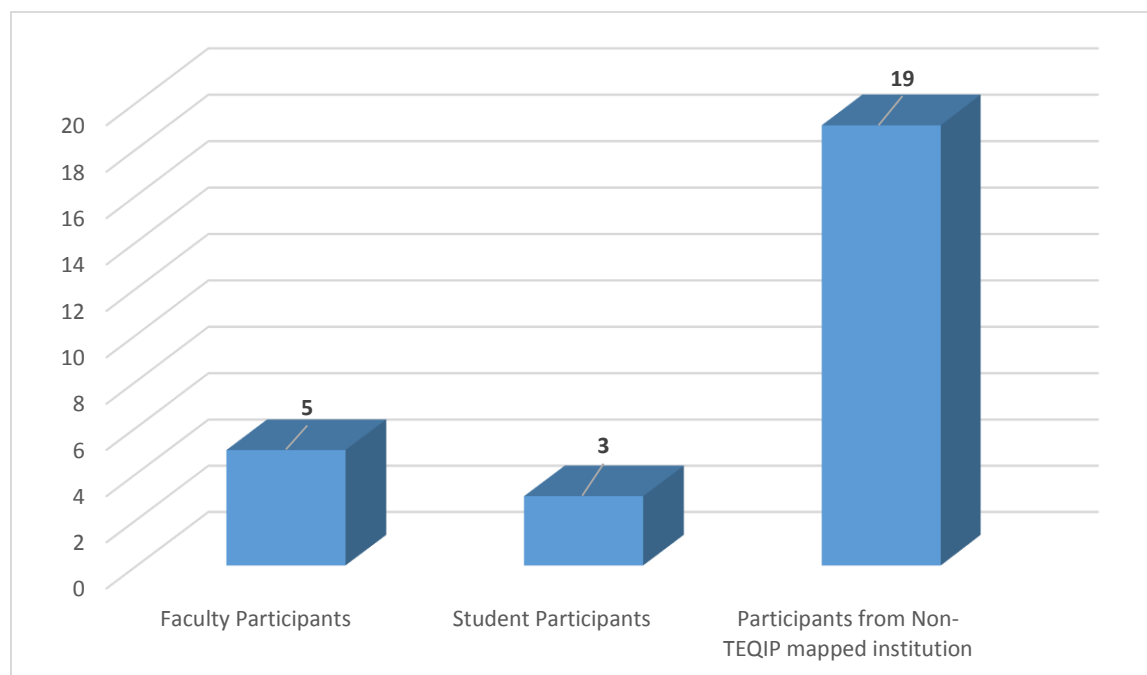
Prof. M. K. Purkait
Centre for Environment

Type of the course: Symposium Duration: 15.03.19

Total nos. of Faculty Participants: 5

Total nos. of Student Participants: 3

Total nos. of Participants from Non-TEQIP mapped institution: 19





Power Quality Issues in Electric Grid and Mitigation Techniques

Prof. R. Adda

Electronics and Electrical
Engineering

Prof. Chandan Kumar

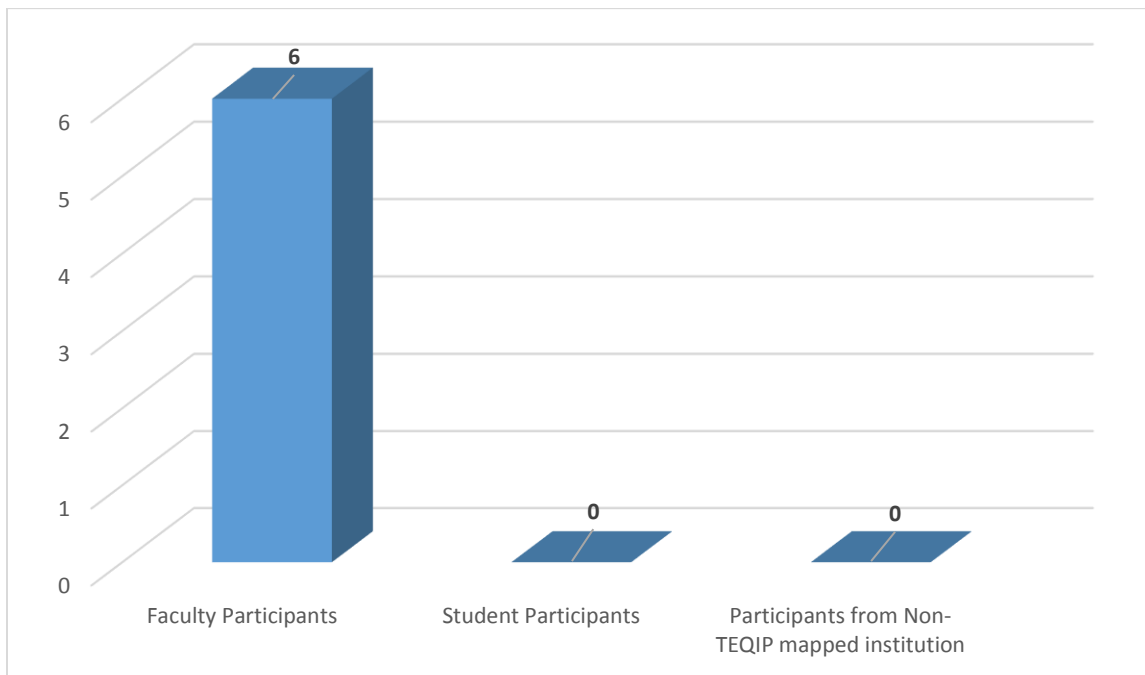
Electronics and Electrical
Engineering

Type of the course: Symposium Duration: 19.11.18

Total nos. of Faculty Participants: 6

Total nos. of Student Participants: 0

Total nos. of Participants from Non-TEQIP mapped institution: 0





Prof. Praveen Tripathy
Electronics and
Electrical Engineering



Prof. R. Adda
Electronics and
Electrical
Engineering



Prof. Chandan Kumar
Electronics and Electrical
Engineering

Power Electronics for Sustainable Energy Resources

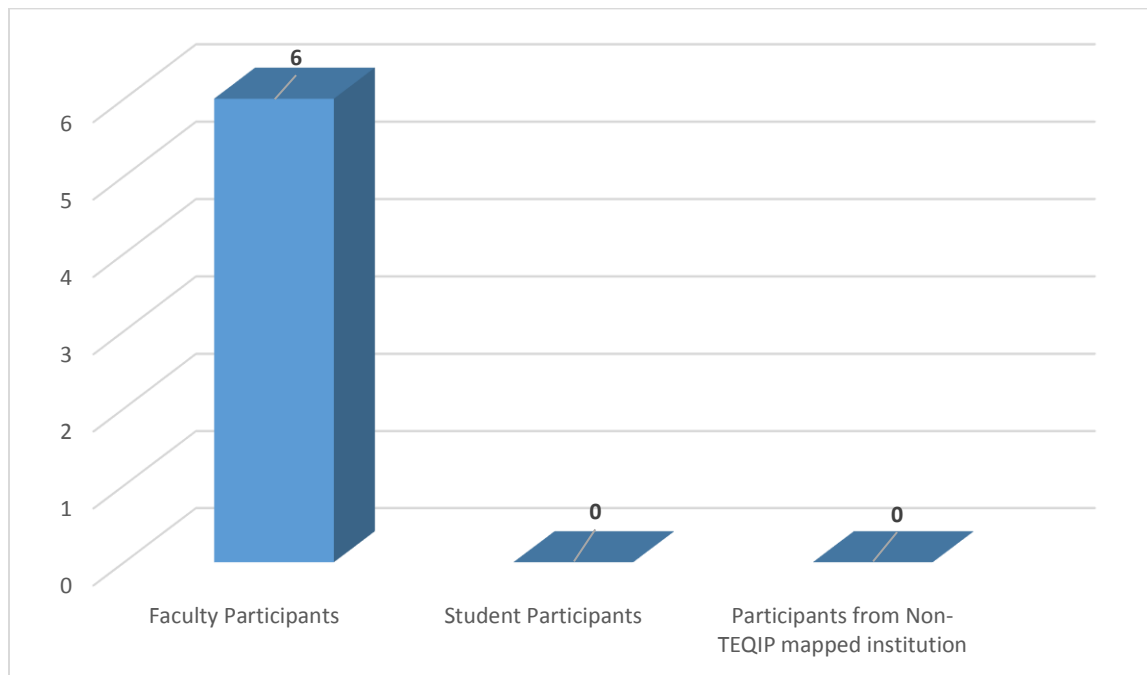
Type of the course: Symposium

Duration: 20.11.18

Total nos. of Faculty Participants: 6

Total nos. of Student Participants: 0

Total nos. of Participants from Non-TEQIP mapped institution: 0





TEQIP III Orientation workshop in coordination with NPIU & MHRD

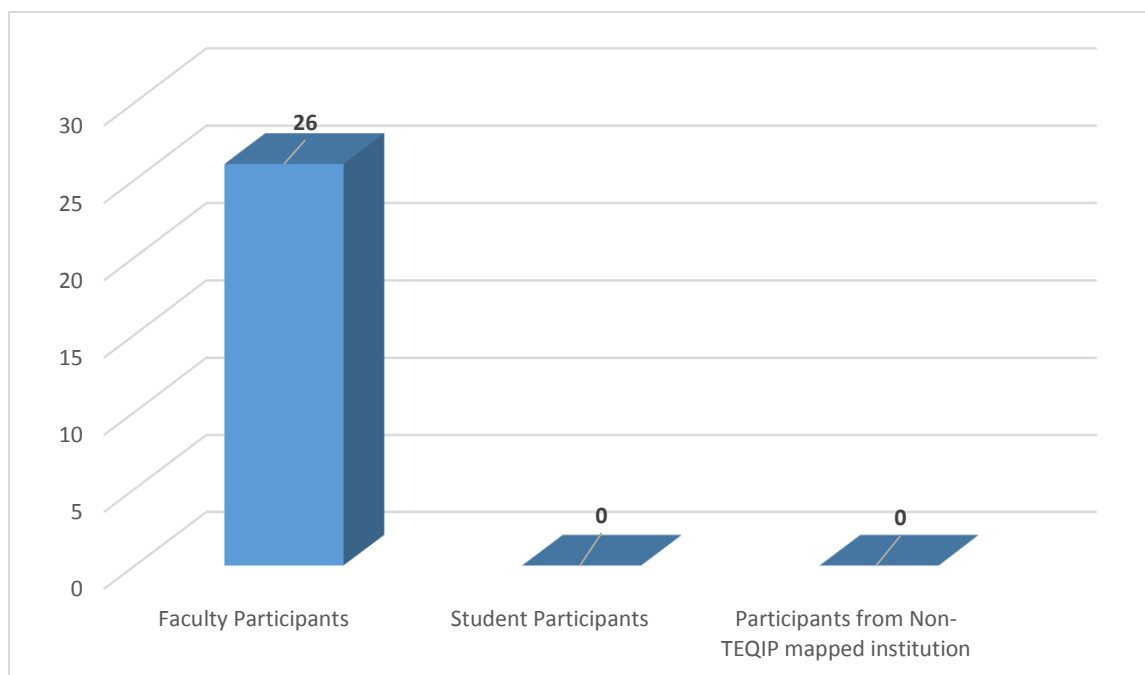
Prof. S. Khijwania
Physics

Type of the course: Workshop Duration: 25.11.16 to 26.11.16

Total nos. of Faculty Participants: 26

Total nos. of Student Participants: 0

Total nos. of Participants from Non-TEQIP mapped institution: 0





Director's Conclave

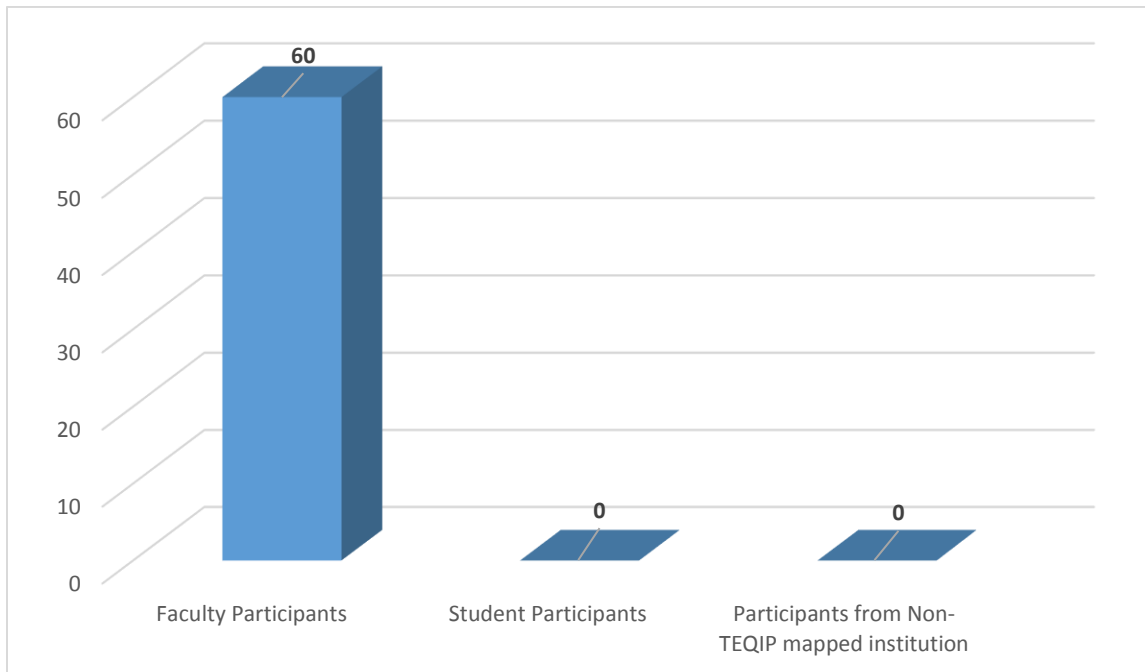
Prof. S. Khijwania
Physics

Type of the course: Workshop Duration: 10.08.17 to 11.08.17

Total nos. of Faculty Participants: 60

Total nos. of Student Participants: 0

Total nos. of Participants from Non-TEQIP mapped institution: 0





Training Workshops for Faculty Mentors on Induction Program

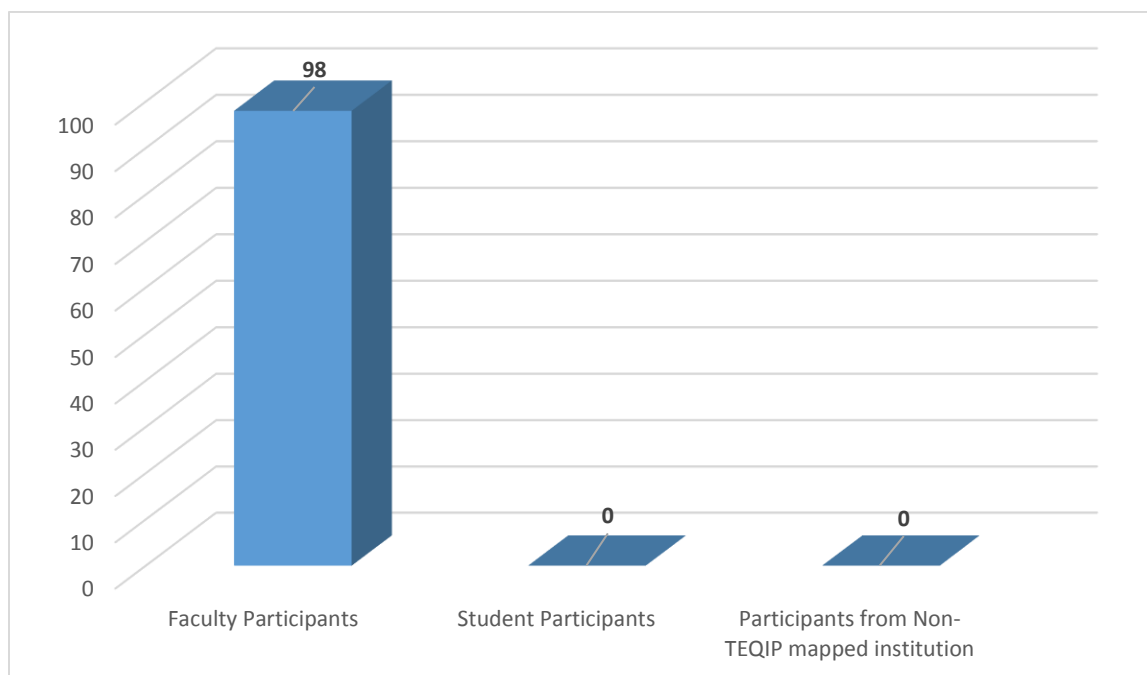
Prof. S. Khijwania
Physics

Type of the course: Workshop Duration: 13.10.17 to 15.10.17

Total nos. of Faculty Participants: 98

Total nos. of Student Participants: 0

Total nos. of Participants from Non-TEQIP mapped institution: 0





Orientation workshop on Start-up and Innovation under TEQIP-III

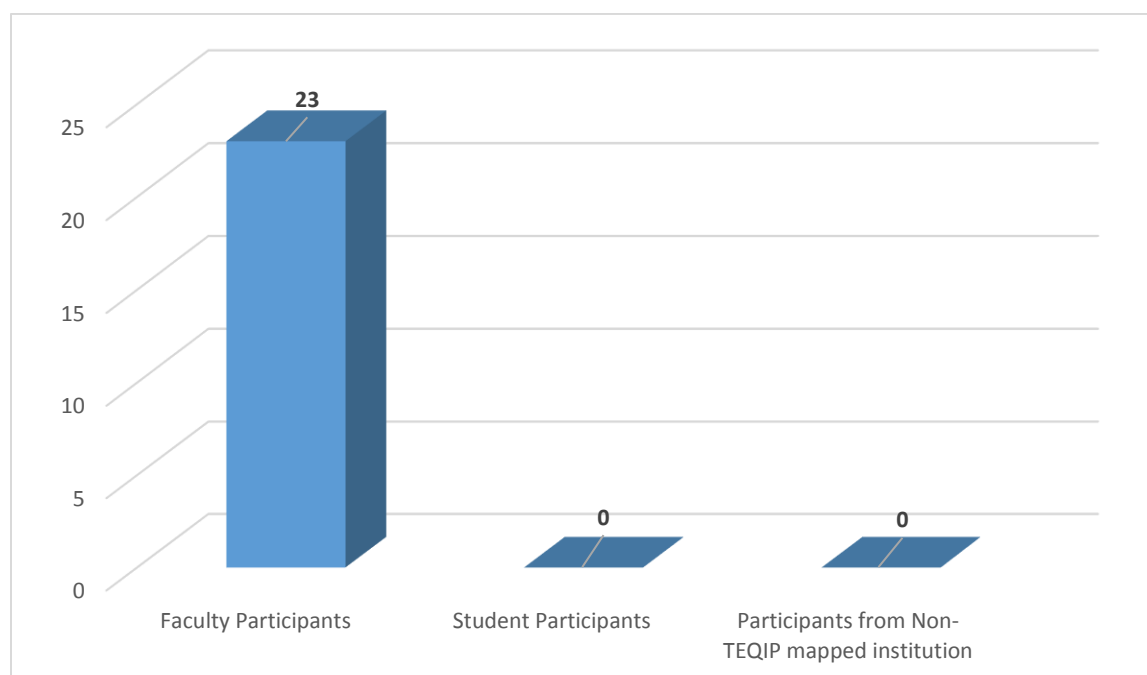
Prof. S. Khijwania
Physics

Type of the course: Workshop Duration: 22.12.17 to 23.12.17

Total nos. of Faculty Participants: 23

Total nos. of Student Participants: 0

Total nos. of Participants from Non-TEQIP mapped institution: 0



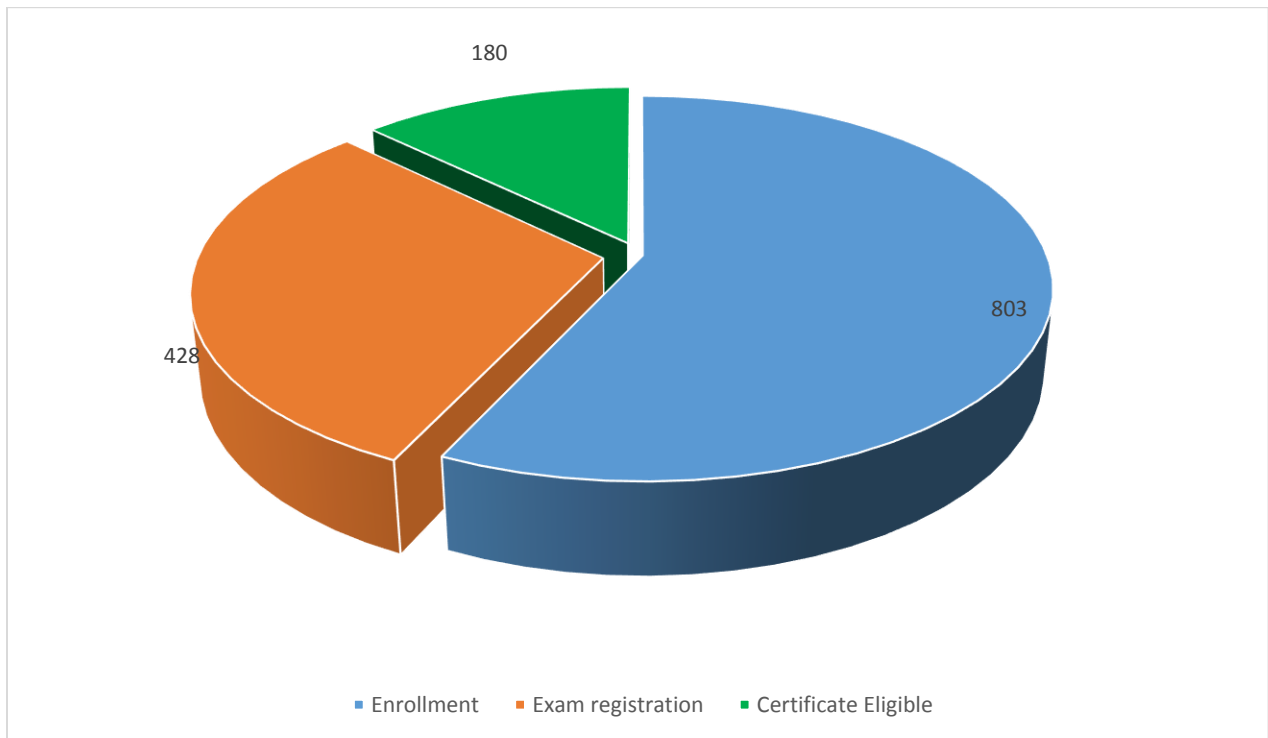
Cumulative Data of TEQIP III STC 2017-20

Total nos. of Event Conducted: 44

Total nos. of Faculty Participants: 803

Total nos. of Student Participants: 428

Total nos. of Participants from Non-TEQIP mapped institution: 180



Internships (53):



Preparation of Novel adsorbent for the treatment of Arsenic contaminated drinking water

Prof. Mihir Kumar Purkait
Centre for Environment

Type of the course: Summer Internship
Duration: 30th May to 15th July, 2019

Name of student: Indra Bhushan Chetry



Study of Copper adsorption on reduced graphene oxide based composites in a millichannel based packed-bed reactor

Prof. Subrata Kumar Mazumder
Chemical Engineering

Type of the course: Summer Internship
Duration: 20.05.2019 to 30.06.2019

Name of student: Subhankar Bhattacharjee



Wastewater treatment using membrane

Prof. Chandan Das
Chemical Engineering

Type of the course: Summer Internship
Duration: 27.05.19 to 19.06.19

Name of student: Sounak Sarkar



Removal of heavy metal & industrial waste water treatment

Prof. Chandan Das
Chemical Engineering

Type of the course: Summer Internship
Duration: 27.05.19 to 19.06.19

Name of student: Binayyak Barik



Prof. Tamal Banerjee
Chemical Engineering

Type of the course: Summer Internship
Duration: 20.05.19 to 17.06.19

Name of student: Priyotosh Bairagya



Prof. Dipankar Narayan Basu
Mechanical Engineering

Computation simulation of heat transfer deterioration in SCNCL

Type of the course: Summer Internship
Duration: 16.05.19 to 13.07.19

Name of student: Roshan Mani Rao



Prof. Dipankar Narayan Basu
Mechanical Engineering

Development of test facility for supercritical heat transfer in miniscale

Type of the course: Summer Internship
Duration: 16.05.19 to 13.07.19

Name of student: Shashwat Sharma



Prof. D. Pamu
Physics

Development of hydroxyapatite-strontium titanate based ceramic composite for biomedical applications

Type of the course: Summer Internship
Duration: 16.05.19 to 15.07.19

Name of student: Sumit Ranjan Sahoo



Prof. D. Pamu
Physics

Development of hydroxyapatite-Barium strontium titanate based ceramic composite for biomedical applications

Type of the course: Summer Internship
Duration: 16.05.19 to 15.07.19

Name of student: Shiksha Patel



Thermal Analysis of multi-threaded programs on CMPs

Prof. Hemangee K. Kapoor
Computer Science & Engineering

Type of the course: Summer Internship
Duration: 16.05.19 to 15.07.19

Name of student: Ashwini Kulkarni



Performance Analysis of multi-threaded programs on CMPs

Prof. Hemangee K. Kapoor
Computer Science & Engineering

Type of the course: Summer Internship
Duration: 16.05.19 to 30.06.19

Name of student: Poonam Chavre



Adsorption and removal study of crude oil using engineered nanoparticles

Prof. Lalit Pandey
Bioscience & Bioengineering

Type of the course: Summer Internship
Duration: June to July

Name of student: CH. Shiney Rashmitha



Study of the Oil recovery efficiency of the produced biosurfactants by core flooding experiments and comparing them with the commercial surfactants

Prof. Lalit Pandey
Bioscience & Bioengineering

Type of the course: Summer Internship
Duration: June to July

Name of student: Sanket Pathode



Development of conductive Deep Eutectic Solvents to apply as electrolyte for Electrical Double Layer Capacitor

Prof. Tamal Banerjee
Chemical Engineering

Type of the course: Summer Internship
Duration: 25.06.19 to 26.07.19

Name of student: Bhuyashi Saikia



Measurement of Thermophysical properties of DES and NDES as a Thermal Fluid

Prof. Tamal Banerjee
Chemical Engineering

Type of the course: Summer Internship
Duration: 25.06.19 to 26.07.19

Name of student: Arushmita Das



Screening protein expression parameters of human Oct4 to generate a biologically active recombinant

Prof. Rajkumar P Thummer
Bioscience & Bioengineering

Type of the course: Summer Internship
Duration: 20.05.19 to 15.07.19

Name of student: Disha



Arsenic extraction from aqueous solution using polyDADMAC, a water-soluble polymer with ceramic membrane

Prof. Selvaraju Narayanasamy
Bioscience & Bioengineering

Type of the course: Summer Internship
Duration: 15.05.19 to 15.07.19

Name of student: Abhijeet Pathy



Biosorption of multiple dyes using bio-based adsorbent as possible removal technique using batch and continuous studies

Prof. Selvaraju Narayanasamy
Bioscience & Bioengineering

Type of the course: Summer Internship
Duration: 15.05.19 to 15.07.19

Name of student: Jyoti Prakash Ray



Study on an Integrated Membrane Photocatalytic Process

Prof. Animesh. K. Golder
Chemical Engineering

Type of the course: Summer Internship
Duration: 27.05.19 to 07.07.19

Name of student: Tushar Nath



A Facile Bio-inspired Route for the Synthesis of Co_3O_4 Nanoparticles to Electrocatalytic Sensing of Glucose

Prof. Animesh. K. Golder
Chemical Engineering

Type of the course: Summer Internship
Duration: 27.05.19 to 07.07.19

Name of student: Ikbal Gazi



Effect of heat Input on weld-bead geometry and mechanical properties of pqi welded joints by Induction Assisted GMHW

Prof. Pankaj Biswas
Mechanical Engineering

Type of the course: Summer Internship
Duration: 22.06.19 to 28.07.19

Name of student: Anupam Boruah



Design and development of Induction Assisted Gas metal Arc welding

Prof. Pankaj Biswas
Mechanical Engineering

Type of the course: Summer Internship
Duration: 28.06.19 to 28.07.19

Name of student: Yashraj dam



Design and modeling of a robotic Arm with dedicated gripper for physical therapy purposes

Prof. Santosh Dwivedy
Mechanical Engineering

Type of the course: Summer Internship
Duration: 16.05.19 to 15.07.19

Name of student: Shivansh Mishra



Research 7 development on small humanoid robot

Prof. Santosh Dwivedy
Mechanical Engineering

Type of the course: Summer Internship
Duration: 19.05.19 to 16.07.19

Name of student: Katit Modi



Ruthenium (II) Catalyzed Site- Selective C-H Activation and Oxidative Annulation Approach of 2-phenylimidazo pyridine towards Maleimide: An way to Affords Novel Luminescent Materials

Prof. B. K. Patel
Chemistry

Type of the course: Summer Internship
Duration: 18.05.19 to 30.06.19

Name of student: Shivani Dehury



Visible Light-Mediated Ir (III)- Catalysed Concomitant C3 Oxidation and C2-Amination of Indoles

Prof. B. K. Patel
Chemistry

Type of the course: Summer Internship
Duration: 05.05.19 to 15.06.19

Name of student: Abhishek Goyal



Development of an integrated process for the production of sugars and lignin from elephant grass

Prof. Mihir Kumar Purkait
Chemical Engineering

Type of the course: Summer Internship
Duration: 02.04.2020 to 02.05.2020

Name of student: Anurag Kumar



Development of a novel Metal-organic framework (MOF) for arsenic removal from drinking water

Prof. Mihir Kumar Purkait
Chemical Engineering

Type of the course: Summer Internship
Duration: 20.03.2020 to 20.04.2020

Name of student: Ishita Saikia



Degradation of Carbamazepine in heterogeneous Fenton like catalytic system using Hydrodynamic Cavitation

Prof. V. S. Moholkar
Chemical Engineering

Type of the course: Summer Internship
Duration: 01.06.18 to 30.06.18

Name of student: Ayush Parasar



Cu-Catalyzed C-2 Animation of Quinoline N-Oxide Using N-(-(Phenylthio)phenyl)Cyanamid

Prof. B. K. Patel
Chemistry

Type of the course: Summer Internship
Duration: 28.05.18 to 06.07.18

Name of student: Rani Payang



Performance investigation of a vortex tube

Prof. Pankaj Kalita
Centre for Energy

Type of the course: Summer Internship
Duration: 14.06.18 to 14.07.18

Name of student: Joysree Konwar



Deposition and characterization of SrTiO₃, XRD, AFM

Prof. D. Pamu
Centre for Nanotechnology

Type of the course: Summer Internship
Duration: 15.05.18 to 10.07.18

Name of student: Anirban Majee



Preparation and characterization of ceramics

Prof. D. Pamu
Centre for Nanotechnology

Type of the course: Summer Internship
Duration: 15.05.18 to 10.07.18

Name of student: Manish Joshi



Non-linear analysis of rotational inertial double tuned mass dampers system by Harmonic balanced method

Prof. Santosh Dwivedy
Mechanical Engineering

Type of the course: Summer Internship
Duration: 28.06.18 to 27.07.18

Name of student: Saptarishi Sikdar



Experimental investigation of energy harvester

Prof. Santosh Dwivedy
Mechanical Engineering

Type of the course: Summer Internship
Duration: 28.06.18 to 27.07.18

Name of student: Ankit Tiwari



Stress/analysis of the sandwich plate

Prof. Santosh Dwivedy
Mechanical Engineering

Type of the course: Summer Internship
Duration: 28.06.18 to 27.07.18

Name of student: Jitumoni Kumar



Dynamic Analysis of a 2-link manipulator

Prof. Santosh Dwivedy
Mechanical Engineering

Type of the course: Summer Internship
Duration: 28.06.18 to 27.07.18

Name of student: Abhilash Das
Satyam Sarma



Power aware Cache Management

Prof. Hemangee K. Kapoor
Computer Science & Engineering

Type of the course: Summer Internship
Duration: 18.05.18 to 15.07.18

Name of student: Chirag Jyoshi



Electrolytic CO₂ reduction cell using bio-synthesized Co (1) oxide nanoparticles as catalyst

Prof. Animesh K. Golder
Chemical Engineering

Type of the course: Summer Internship
Duration: 01.06.18 to 30.06.18

Name of student: Priyotosh Bairagya



Electrochemical detection of a pesticide, chlorpyrifos using silver nanoparticles (AgNPs)

Prof. Animesh K. Golder
Chemical Engineering

Type of the course: Summer Internship
Duration: 28.05.18 to 29.06.18

Name of student: Soumyadip Saha



Power aware Cache Management

Prof. Hemangee K. Kapoor
Computer Science & Engineering

Type of the course: Summer Internship
Duration: 23.05.18 to 22.06.18

Name of student: Ashwini Anil Kulkarni



Degradation of toxic nonylphenol through advanced oxidation process by using industrial waste derived heterogeneous Fenton Catalyst

Prof. Kaustubha Mohanty
Chemical Engineering

Type of the course: Summer Internship
Duration: 17.05.18 to 01.07.18

Name of student: Som Samantray



Non-Invasive measurement of uric acid in Human Body

Prof. R. K. Sonkar
Electronics and Electrical Engineering

Type of the course: Summer Internship
Duration: 16.05.18 to 16.06.18

Name of student: Abu Osama



Non-Invasive method of measuring uric acid and creatinine in Human Blood

Prof. R. K. Sonkar
Electronics and Electrical Engineering

Type of the course: Summer Internship
Duration: 16.04.18 to 30.06.18

Name of student: Kheyali Naskar



Non-Invasive optical method for the determination of uric acid and creatinine in human body

Prof. R. K. Sonkar
Electronics and Electrical Engineering

Type of the course: Summer Internship
Duration: 16.05.18 to 30.06.18

Name of student: Sweety Kumari



Impact of droplets onto inclined surfaces

Prof. Pranab Kumar Mondal
Mechanical Engineering

Type of the course: Winter Internship
Duration: 02.12.19 to 31.12.19

Name of student: Yash Kumar



Drop Impact and Wettability from hydrophilic to super hydrophobic surfaces

Prof. Pranab Kumar Mondal
Mechanical Engineering

Type of the course: Winter Internship
Duration: 02.12.19 to 31.12.19

Name of student: Samrat Nilesh



Finding the torque of knee, limb for 60 kg human weight

Prof. S. K. Dwivedy
Mechanical Engineering

Type of the course: Winter Internship
Duration: 01.12.18 to 28.12.18

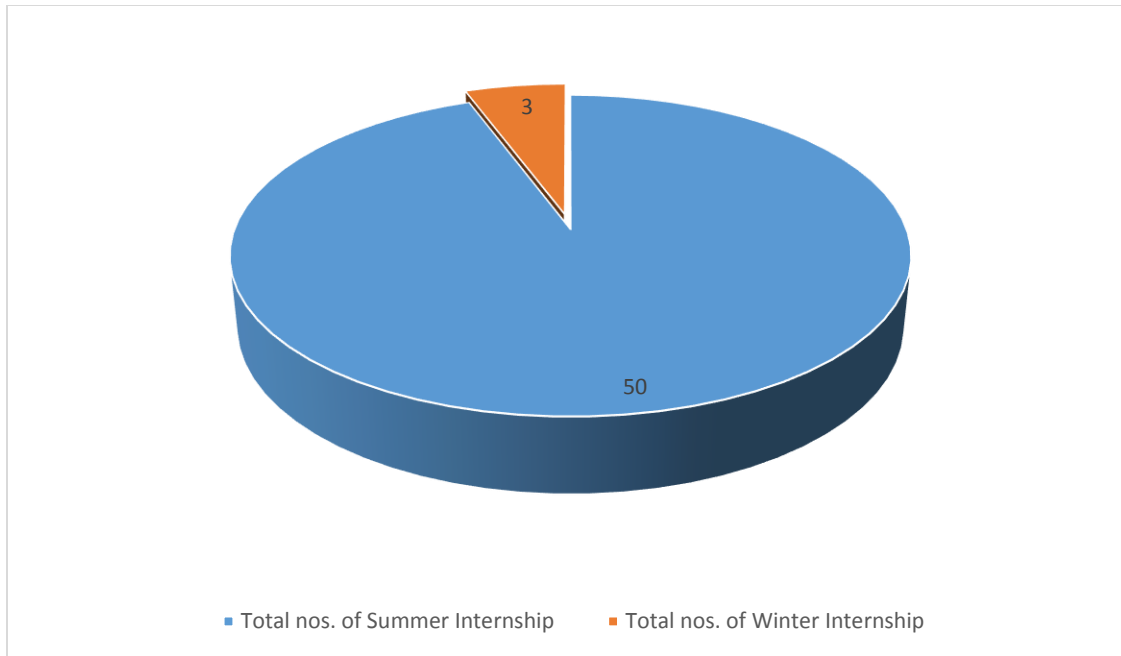
Name of student: Nishu Kumari

Cumulative Data of TEQIP III Internships:

Total nos. of Internships Conducted: 53

Total nos. of Summer Internship Conducted: 50

Total nos. of Winter Internship Conducted: 3



National Conference (01):



Prof. Pankaj Kalita
Centre for Energy

Type of the course: National Conference
Duration: 27.12.18 to 28.12.18

Name of organizer: Dr. H. Lalmingsanga

Name of organizer's Institute: NIT Mizoram

IIT Guwahati contribution in all TEQIP events (2017-20) Cumulative Data

Total nos. of Event Conducted: (44+53+01=98)

Total nos. of STC: 44

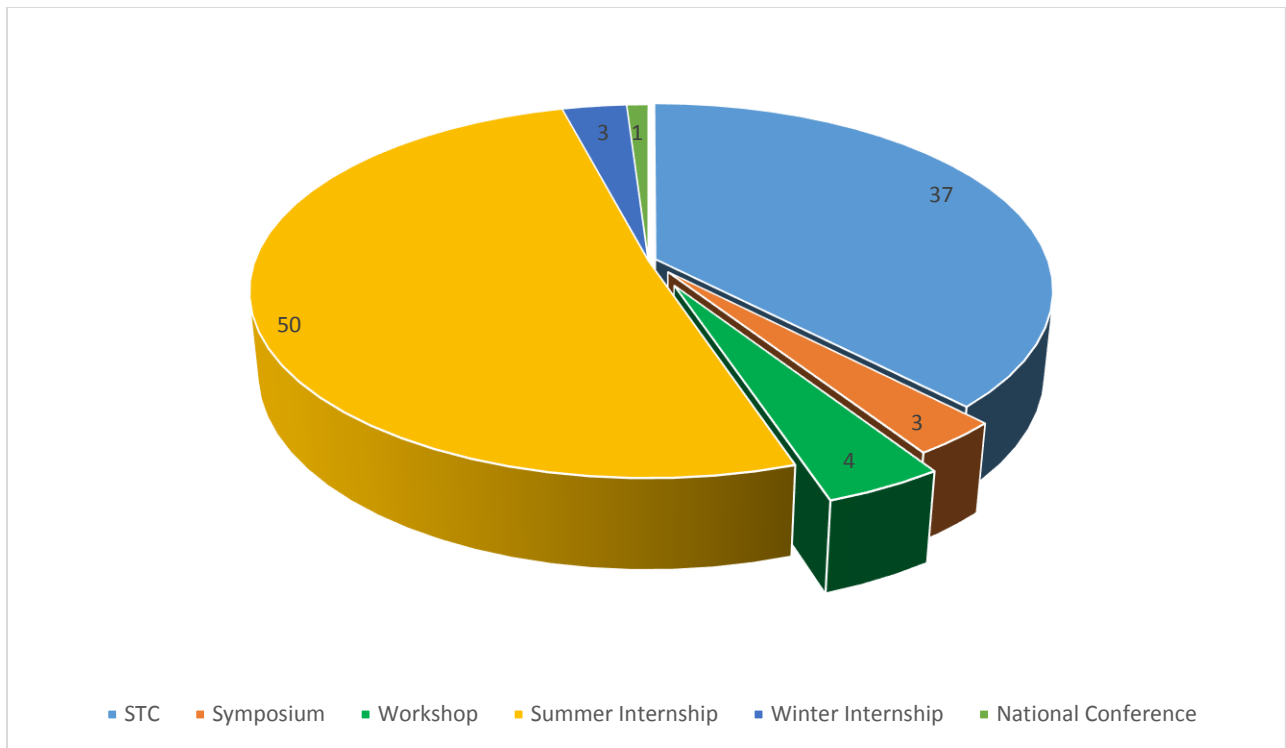
Total nos. of Symposium: 3

Total nos. of Workshop: 4

Total nos. of Summer Internship: 50

Total nos. of Winter Internship: 3

Total nos. of National Conference: 1



IIT Guwahati contribution 2021



Prof. Niranjan Sahoo
Mechanical Engineering

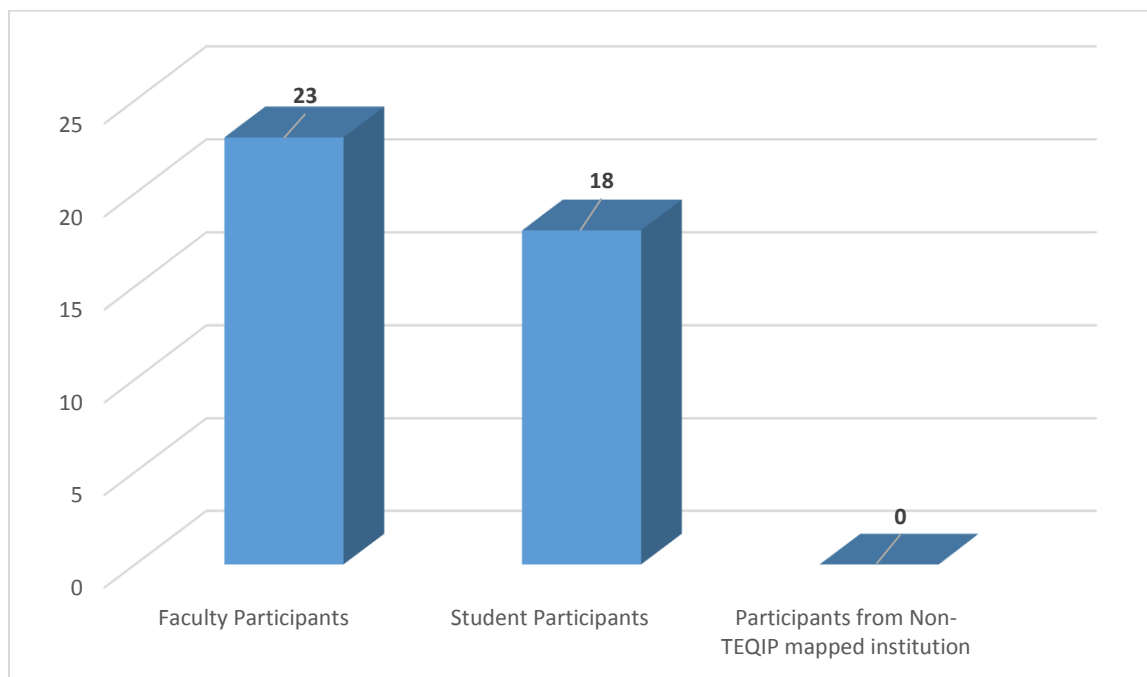
Prof. Ujjwal K Saha
Mechanical Engineering

Type of the course: STC Duration: 17.02.21 to 21.02.21

Total nos. of Faculty Participants: 23

Total nos. of Student Participants: 18

Total nos. of Participants from Non-TEQIP mapped institution: 0





Computational Fluid Dynamics for Incompressible Flow

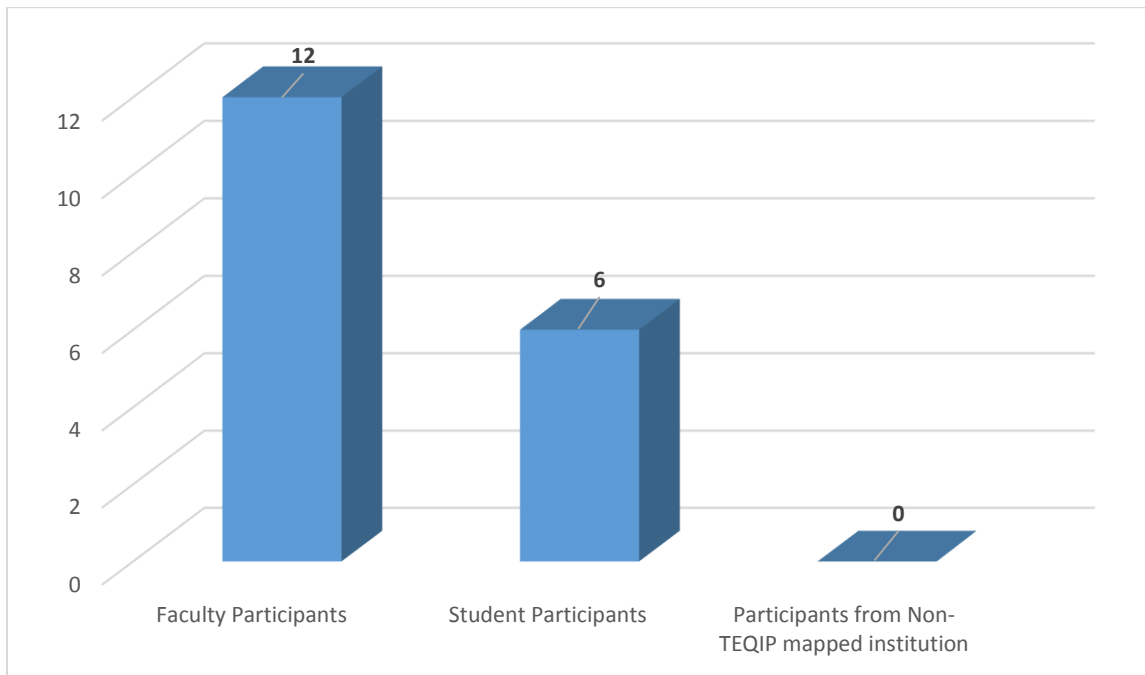
Dr. Amaresh Dalal
Mechanical Engineering

Type of the course: STC Duration: 19.02.21 to 20.02.21

Total nos. of Faculty Participants: 12

Total nos. of Student Participants: 6

Total nos. of Participants from Non-TEQIP mapped institution: 0





Classical and Metaheuristic Optimization Methods for Engineering Planning and Design

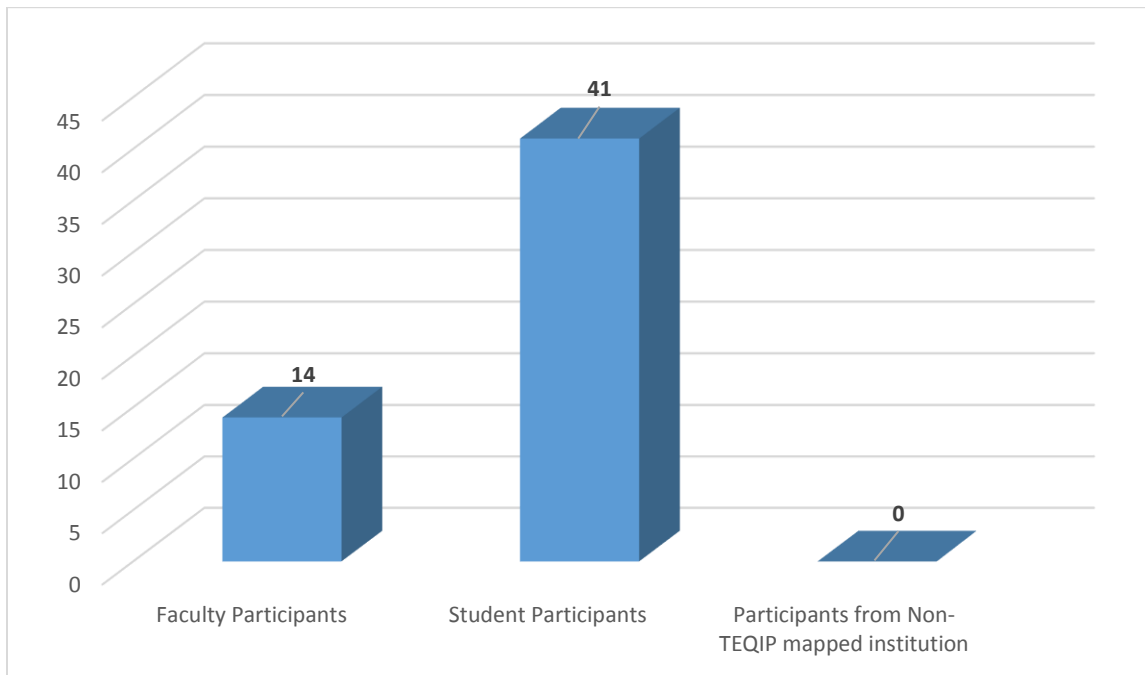
Prof. Rajib Kumar Bhattacharjya
Civil Engineering

Type of the course: STC Duration: 22.03.21 to 26.03.21

Total nos. of Faculty Participants: 14

Total nos. of Student Participants: 41

Total nos. of Participants from Non-TEQIP mapped institution: 0





Recent Advances in RF and Photonics

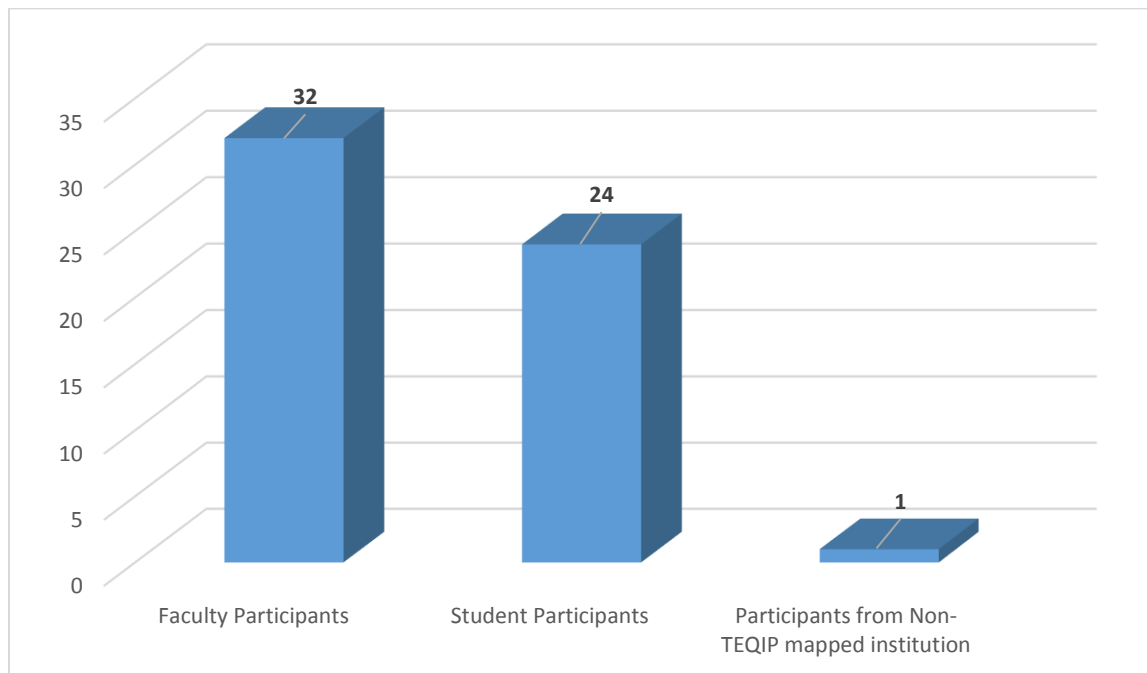
Dr. Ramesh Kumar Sonkar
Electronics & Electrical
Engineering

Type of the course: STC Duration: 22.03.21 to 26.03.21

Total nos. of Faculty Participants: 32

Total nos. of Student Participants: 24

Total nos. of Participants from Non-TEQIP mapped institution: 1





Intellectual Property Rights for Academic & Research Institutions

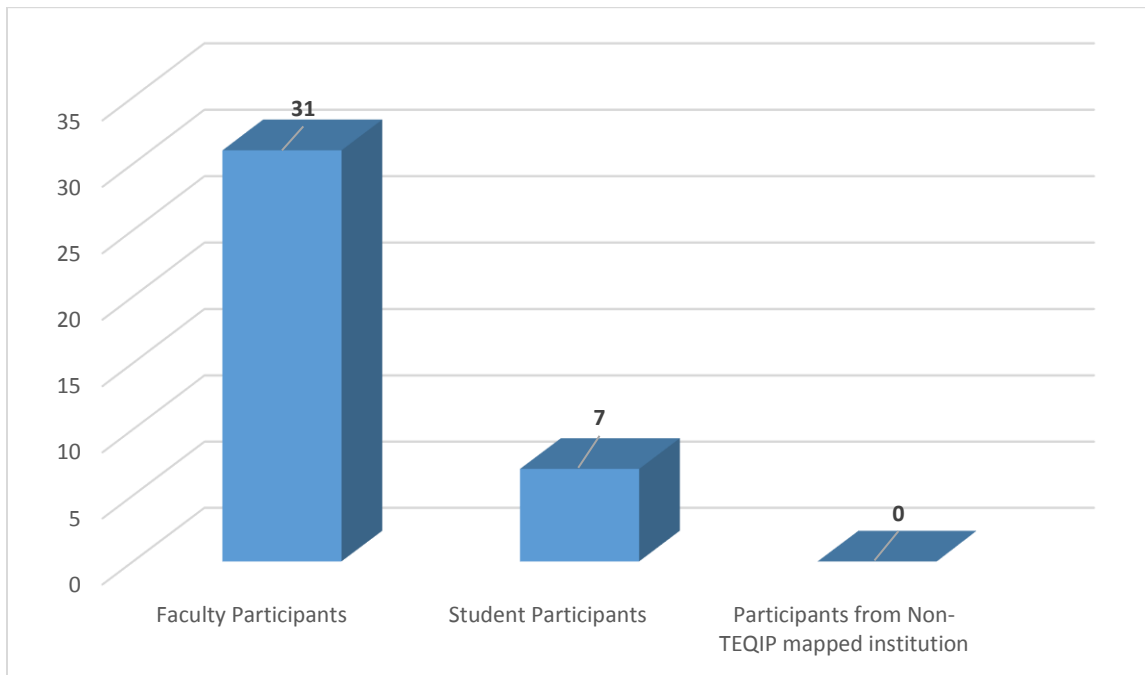
Dr. Karuna Kalita
Mechanical Engineering

Type of the course: STC Duration: 22.03.21 to 26.03.21

Total nos. of Faculty Participants: 31

Total nos. of Student Participants: 7

Total nos. of Participants from Non-TEQIP mapped institution: 0





Recent Advances in Manufacturing Science & Technologies

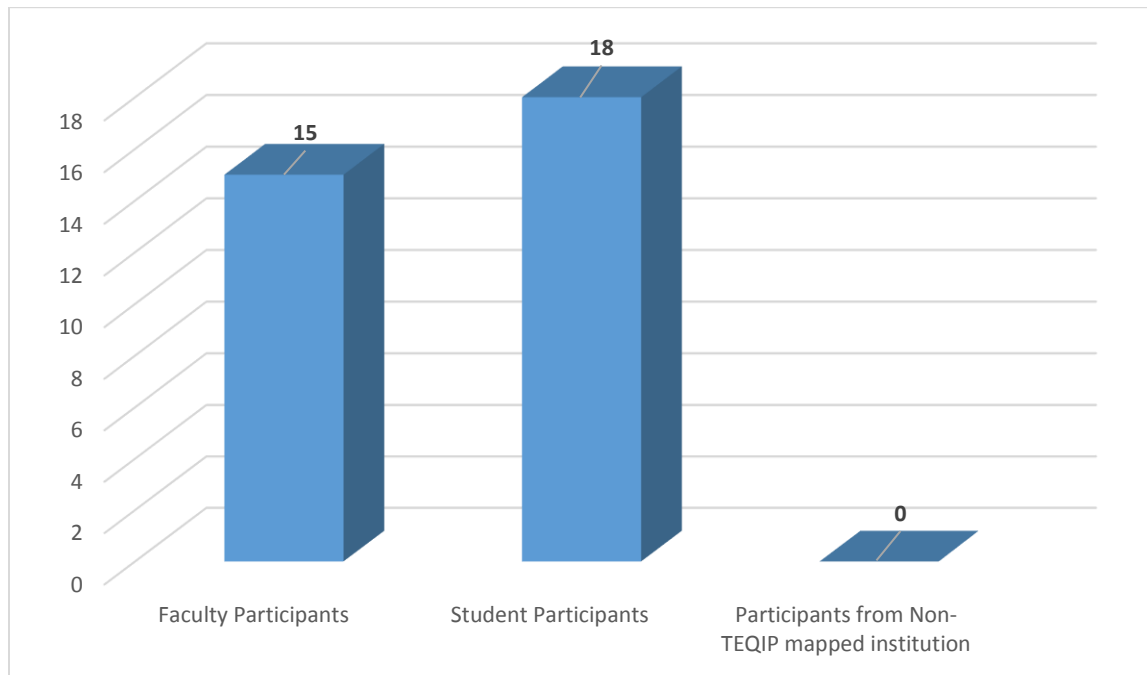
Prof. Swarup Bag
Mechanical Engineering

Type of the course: STC Duration: 22.03.21 to 26.03.21

Total nos. of Faculty Participants: 15

Total nos. of Student Participants: 18

Total nos. of Participants from Non-TEQIP mapped institution: 0





Modern Analytical tools for bio-medical research and teaching

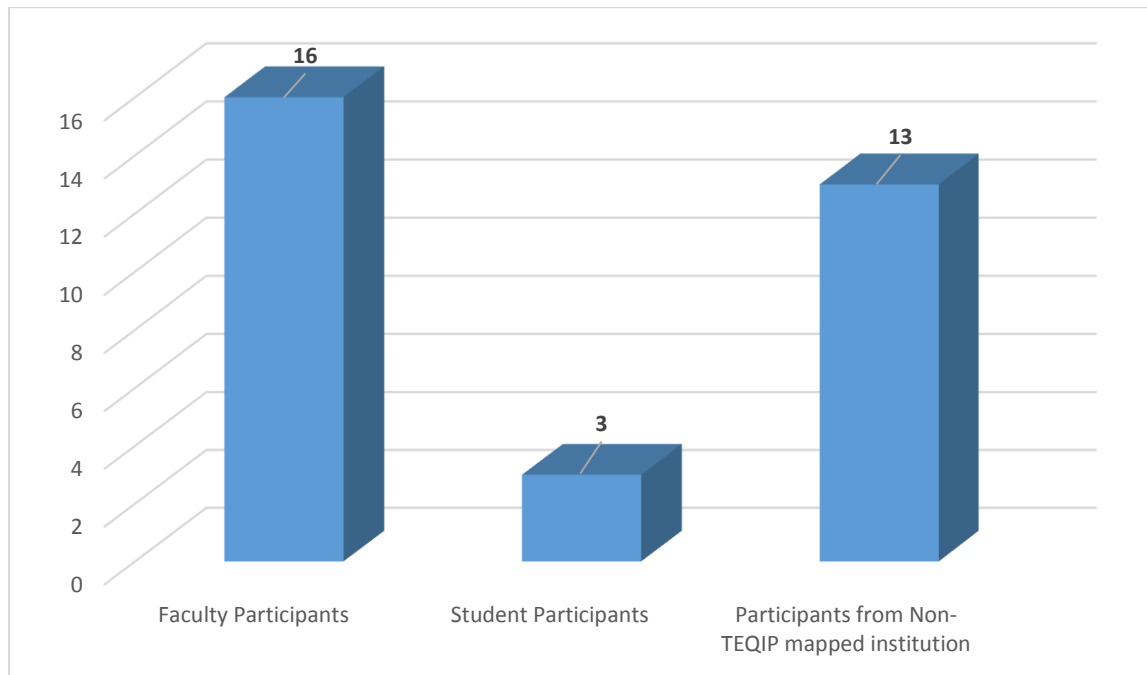
Dr. Vishal Trivedi
Bio Science & Bio Engineering

Type of the course: STC Duration: 22.03.21 to 26.03.21

Total nos. of Faculty Participants: 16

Total nos. of Student Participants: 3

Total nos. of Participants from Non-TEQIP mapped institution: 13





Environmental Genomics and Genome Editing

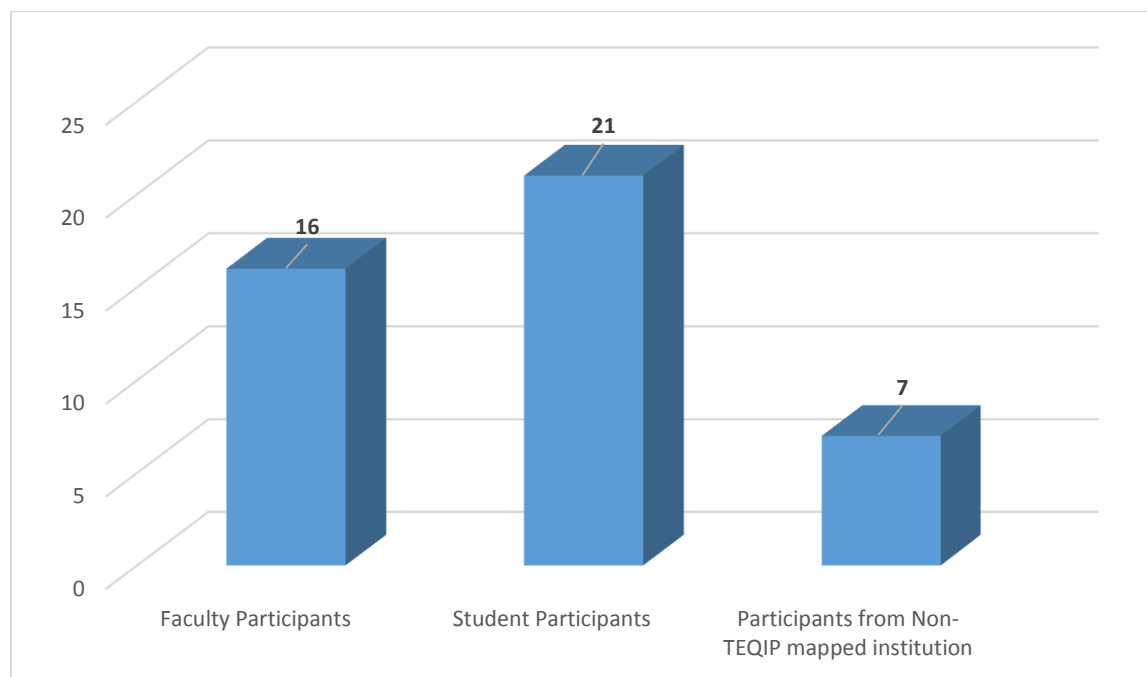
Prof. Utpal Bora
Bio Science & Bio Engineering

Type of the course: STC Duration: 23.02.21 to 27.02.21

Total nos. of Faculty Participants: 16

Total nos. of Student Participants: 21

Total nos. of Participants from Non-TEQIP mapped institution: 7





Dr. Biranchi Panda
Mechanical Engineering



Prof. U.S. Dixit
Mechanical Engineering

C-based VLSI Designs: Synthesis, Optimization and Verification

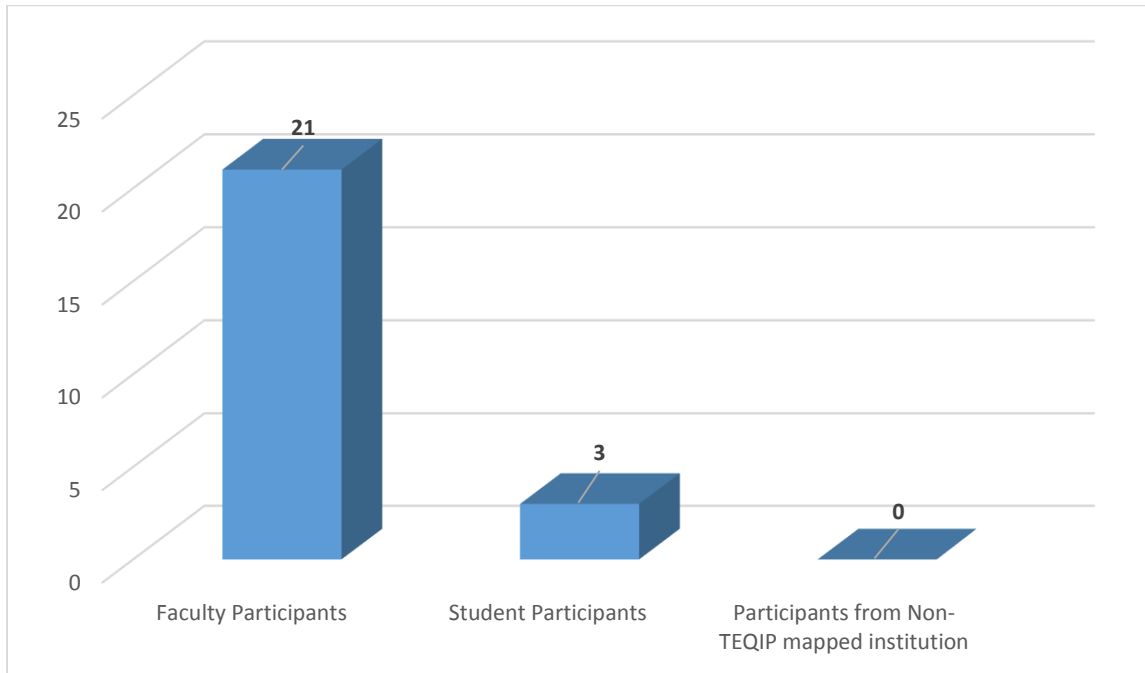
Type of the course: STC Duration: 27.02.21 to 28.02.21
&

06.03.21 to 08.03.21

Total nos. of Faculty Participants: 21

Total nos. of Student Participants: 3

Total nos. of Participants from Non-TEQIP mapped institution: 0





Fracture Mechanics and its Application in Laminated Composites

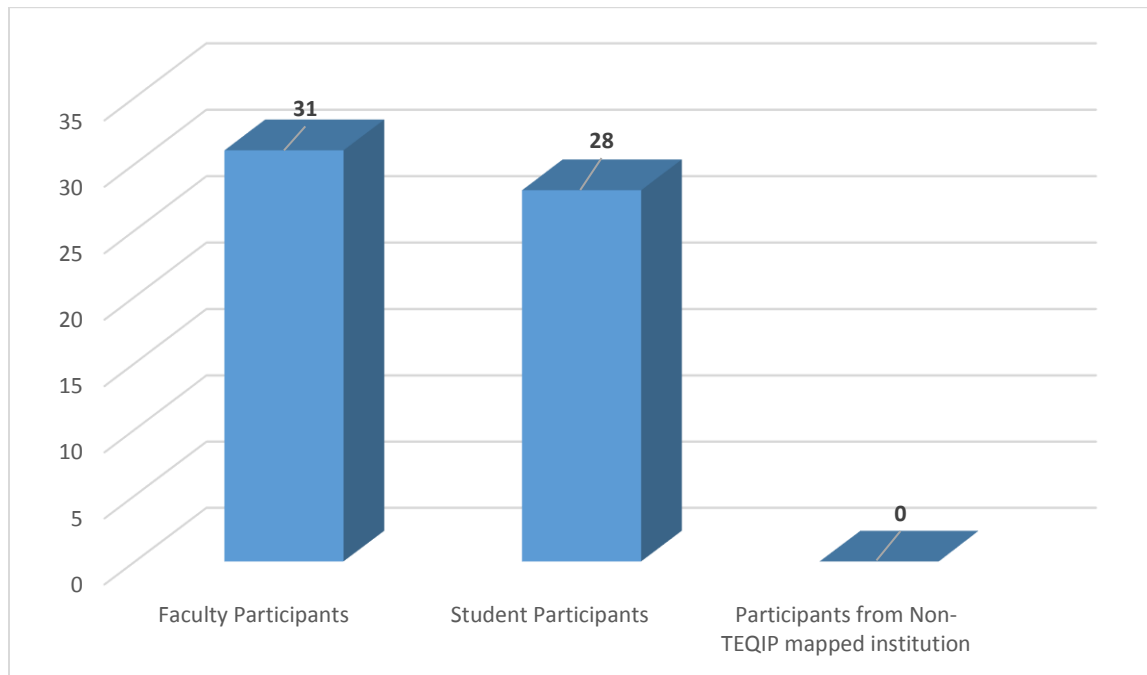
Dr. Nelson Muthu
Mechanical Engineering

Type of the course: STC Duration: 01.03.21 to 05.03.21

Total nos. of Faculty Participants: 31

Total nos. of Student Participants: 28

Total nos. of Participants from Non-TEQIP mapped institution: 0





Prof. Niranjan Sahoo
Mechanical Engineering



Prof. Pankaj Kalita
Centre for Energy

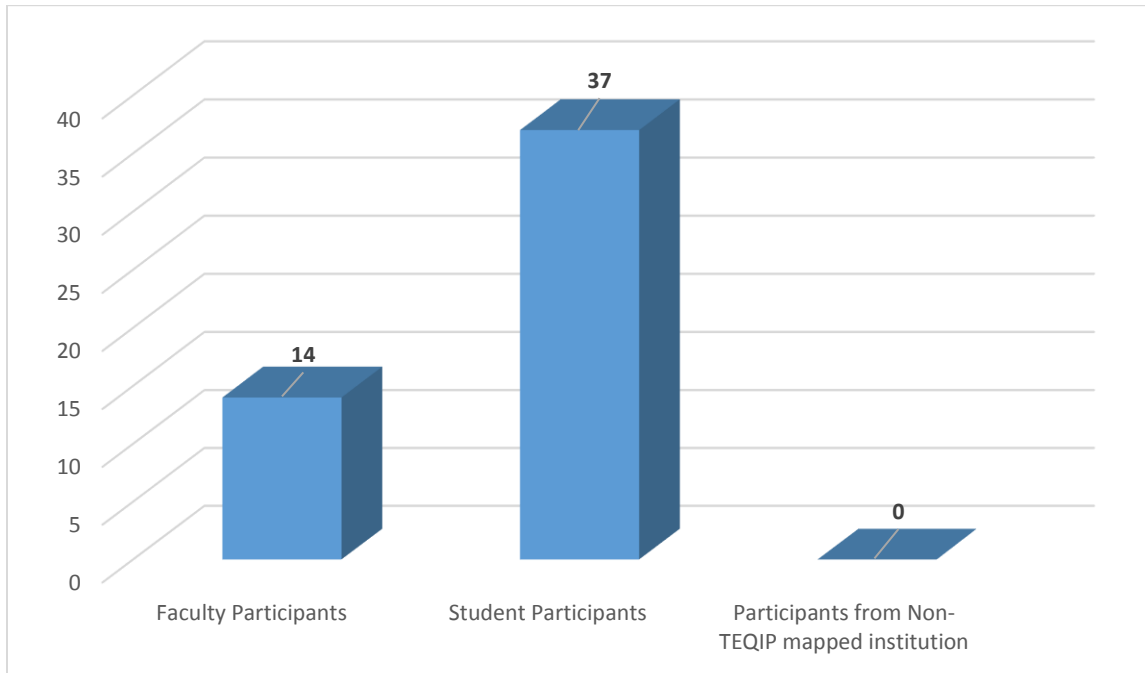
Combustion, Emission and Power Technology

Type of the course: STC Duration: 22.03.21 to 26.03.21

Total nos. of Faculty Participants: 14

Total nos. of Student Participants: 37

Total nos. of Participants from Non-TEQIP mapped institution: 0



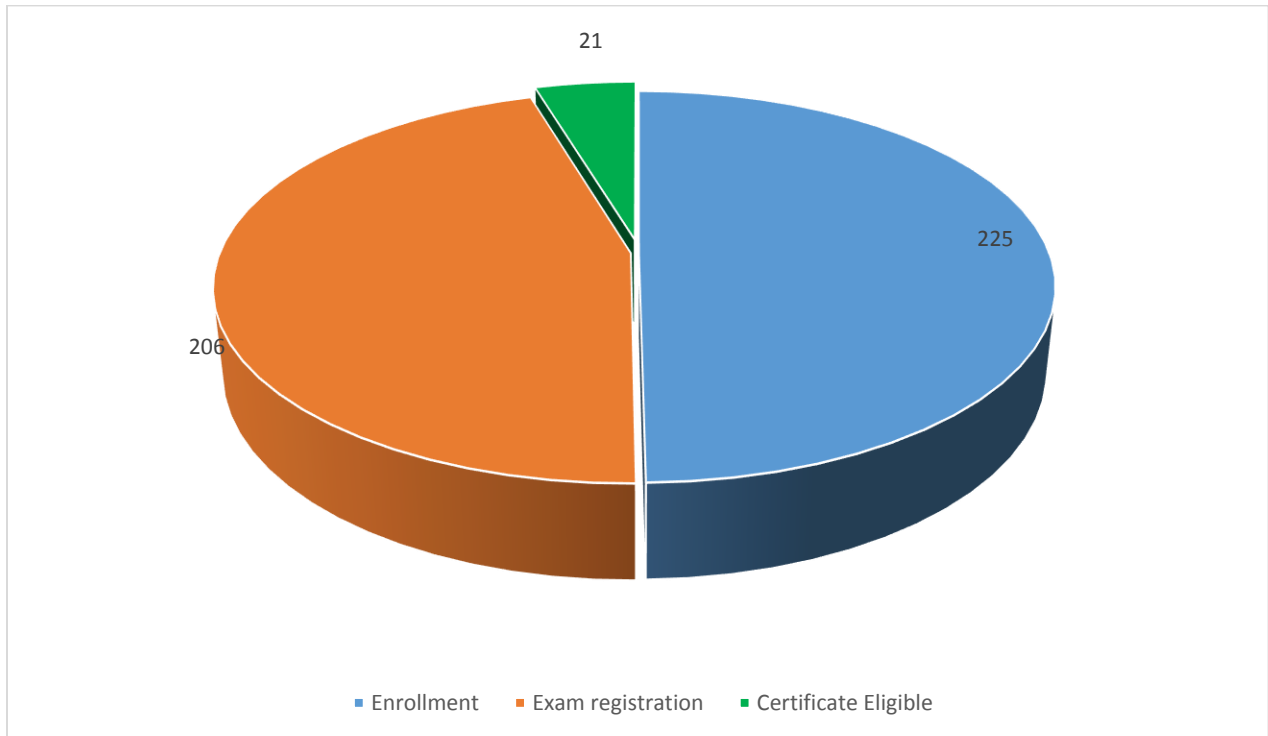
Cumulative Data of TEQIP III STC of 2021

Total nos. of STC Conducted: 11

Total nos. of Faculty Participants: 225

Total nos. of Student Participants: 206

Total nos. of Participants from Non-TEQIP mapped institution: 21



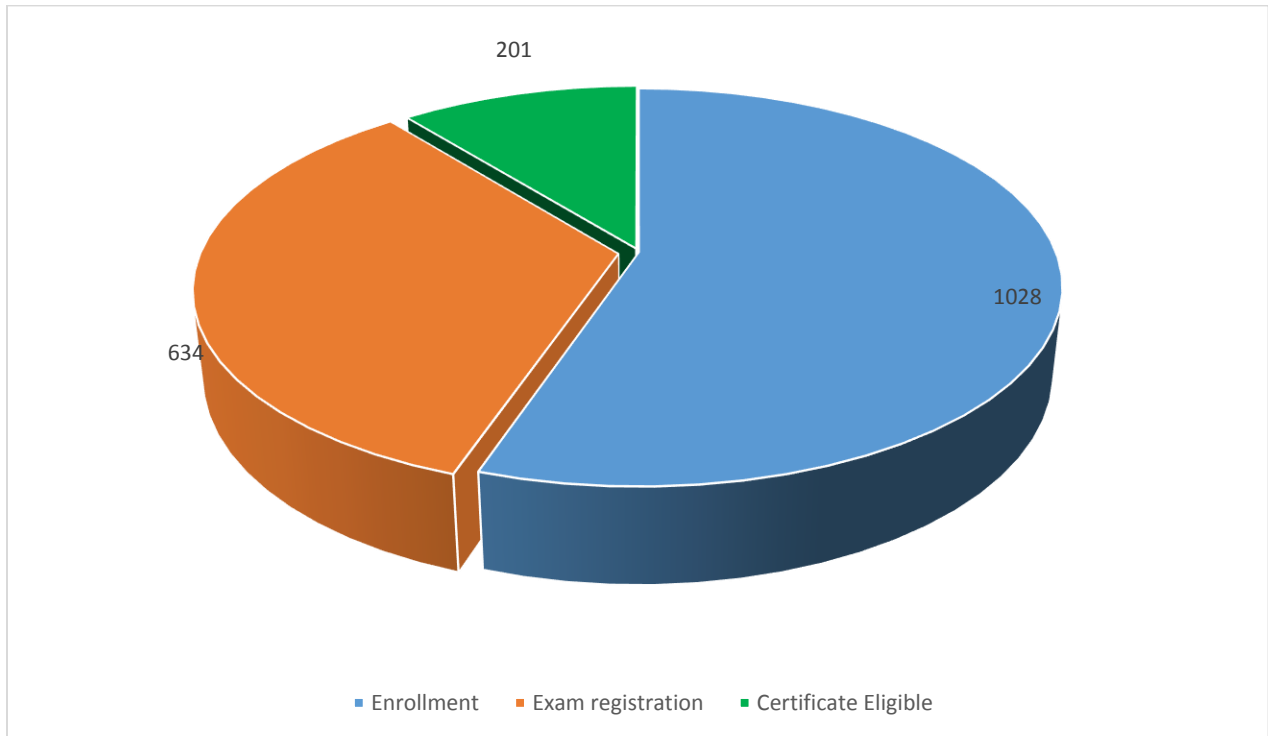
IIT Guwahati contribution in TEQIP III STC Cumulative Data

Total nos. of STC Conducted: (44+11=55)

Total nos. of Faculty Participants: 1028

Total nos. of Student Participants: 634

Total nos. of Participants from Non-TEQIP mapped institution: 201



IIT Guwahati contribution in overall TEQIP events Cumulative Data

Total nos. of Event Conducted: (98+11= 109)

Total nos. of STC: 55

Total nos. of Symposium: 3

Total nos. of Workshop: 4

Total nos. of Summer Internship: 50

Total nos. of Winter Internship: 3

Total nos. of National Conference: 1

