



ST. JOSEPH'S

COLLEGE OF ENGINEERING
AND TECHNOLOGY,
- PALAI -

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Cycle 1 - NAAC Accreditation 2023

Criterion – 6.3

Faculty Empowerment Strategies

Submitted to:



National Assessment and Accreditation Council



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6.3.3 Faculty Participation in FDPs

[2018-19 FDP Participation](#)

[2019-20 FDP Participation](#)

[2020-21 FDP Participation](#)

[2021-22 FDP Participation](#)

[2022-23 FDP Participation](#)



2018-19 FDP Participation

1. [Advanced Methods in Compressible Fluid Flow Analysis](#)
2. [Advances in wireless communication](#)
3. [Advances in UHV Transmission Distribution\(NPTEL\)](#)
4. [Advances in Industrial Automation Fluid Power Control Technologies](#)
5. [Artificial Intelligence Machine Learning](#)
6. [Artificial intelligence and Machine learning](#)
7. [Biomedical Signal Processing\(NPTEL\)](#)
8. [C programming and assembly language\(NPTEL\)](#)
9. [Compiler Design](#)
10. [Control Engineering\(NPTEL\)](#)
11. [Data Science](#)
12. [DC microgrids\(NPTEL\)](#)
13. [Deep learning](#)
14. [Deep Learning and PYNQ Framework](#)
15. [Deep Learning\(NPTEL\)](#)
16. [Descriptive Statistics with R Software\(NPTEL\)](#)
17. [Design and Analysis of Mechanical Systems \(DAMS\)](#)
18. [Design of Photovoltaic System\(NPTEL\)](#)
19. [Discrete Mathematics](#)
20. [From Idea to Implementation Exploring the potential of FPGA](#)
21. [Fundamentals of Electric Devices\(NPTEL\)](#)
22. [Induction Training for Young Teachers](#)
23. [Introduction to Internet of Things\(NPTEL\)](#)
24. [Introduction to Programming in C\(NPTEL\)](#)
25. [Introduction to smart grid-NPTEL](#)
26. [Machine Learning\(NPTEL\)](#)
27. [Plastic Waste Management\(NPTEL\)](#)
28. [Programming in Java-NPTEL](#)
29. [Python for Artificial Intelligence Machine Learning](#)



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30. [Recent Advancements in Manufacturing Engineering](#)
31. [Recent Advances in Fuel Cells](#)
32. [Recent Trends in Semiconductor Devices and MEMSNEMS](#)
33. [Regression Analysis\(NPTEL\)](#)
34. [Research trends in multimedia and multirate signal](#)
35. [Smart Nanomaterials Fundamentals to Applications](#)
36. [Solar photovoltaics, fundamentals and applications\(NPTEL\)](#)
37. [Speech and language processing](#)
38. [Summer School on Deep Learning](#)



2019-20 FDP Participation

1. [A Short Course on Random Vibrations](#)
2. [Accreditation and Outcome based learning](#)
3. [Advanced Styling with Responsive Design](#)
4. [Advances in Green Energy Technologies](#)
5. [AI and ML using python](#)
6. [AI for Everyone\(Coursera\)](#)
7. [Artificial Intelligence and Machine Learning for Biomedical](#)
8. [Applied Thermodynamics for Engineers](#)
9. [Block chain technology](#)
10. [Blockchain 2](#)
11. [Blockchain](#)
12. [Cloud computing](#)
13. [CAD Based Modeling of Optical Fibers](#)
14. [Computational Fluid Dynamics for Incompressible Flows](#)
15. [Digital System Design with Verilog and Vivado](#)
16. [Electric Power Systems](#)
17. [Empower creative Innovative Thinking in Engineers](#)
18. [Examination Reforms](#)
19. [Falling in Love with Linux](#)
20. [Fiber Optics](#)
21. [Fundamentals of FPGA based system design](#)
22. [Hardware in the Loop Simulation Technology for Rapid Product](#)
23. [IC Engines & Gas Turbines\(NPTEL\)](#)
24. [Industrial Revolution 4](#)
25. [Integration Of Biomechanics ,Control And Neurophysiology](#)
26. [Interaction of Coastal Development with Coastal Processes-Its](#)
27. [Introduction to abrasive machining and finishing Process](#)
28. [Introduction to C Programming](#)
29. [Introduction to Industry and Industrial Internet of Things](#)



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30. [Introduction to IoT](#)
31. [Introduction to Internet of things](#)
32. [Introduction to stochastic process](#)
33. [Introduction to Virtual Reality](#)
34. [Know Everything Related to Research](#)
35. [Mathematical Analysis](#)
36. [MOODLE Learning Management System](#)
37. [Online learning and Content Development](#)
38. [Positive Psychology\(Coursera\)](#)
39. [Principles of modern CDMA,MIMO and OFDM wireless](#)
40. [Programming for Everybody\(Coursera\)](#)
41. [Prototyping and Design](#)
42. [Python Data Structures](#)
43. [Quantum computing](#)
44. [Refresher Course on Teacher and Teaching in Higher Education](#)
45. [Robotics and Automation](#)
46. [RPA Design and Development v1](#)
47. [Simulation Modeling of Electronic Systems](#)
48. [Smart Civil Engineering Practices to meet the Contemporary Issues](#)
49. [Statistics For Researchers Understanding Mediation, Moderation and](#)
50. [Steam and Gas Power Systems](#)
51. [Summer Internship on Artificial Intelligence and Deep Learning](#)
52. [Wind Energy](#)



2020-21 FDP Participation

1. [3D printing Design](#)
2. [Advanced Certificate Programme in Academic Research and Data Analysis](#)
3. [Advancements in Signal Processing & AI](#)
4. [Advances in Machining, Manufacturing and Computing Process](#)
5. [Advancements in 3D Printing](#)
6. [Advancements in Antenna Engineering using Artificial Intelligence](#)
7. [Applied Machine Learning __ Datascience](#)
8. [Blockchain Fundamentals](#)
9. [Business Analytics and Data Science](#)
10. [Big Data Computing\(NPTEL\)](#)
11. [Computer Science __ Biology](#)
12. [Constitution of India](#)
13. [Cyber Security oversight for Information Protection](#)
14. [Data Analytics and Machine Learning](#)
15. [Data Analytics Machine Learning Tools- Phase-II](#)
16. [Deep Learning for Signal Processing - Basics to Implementation](#)
17. [Digital Circuits](#)
18. [Electric Vehicles](#)
19. [Exploring Image Processing and Computer Vision using Python](#)
20. [Financial Modelling](#)
21. [Forensic in structural and Geotechnical Engineering](#)
22. [Frontier of 3D printing](#)
23. [Fundamentals of Compressible Flow](#)
24. [Green Technology Sustainability Engineering](#)
25. [Guidance Counseling Phase 2](#)
26. [Guidance Counseling Series 1](#)
27. [Guidance Counseling Series 3](#)
28. [Hardware in the Loop Simulation Learning and Teaching Tool from Typhoon](#)
29. [Incorporating techniques of Blockchain __ AI](#)
30. [Industrial Internet of Things](#)



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31. [Industry 4](#)
32. [Internet of Things \(IoT\)](#)
33. [Introduction to Machine Learning](#)
34. [Introduction to Virtual Reality](#)
35. [IoT Data Science](#)
36. [Leadership Excellence for Academic Development\(LEAD\)-Elementary](#)
37. [Learning Analytic Tools](#)
38. [Learning Management System](#)
39. [Life skills management- ROAD-Leadership and Excellence](#)
40. [Machine Learning with its Mathematical Foundations](#)
41. [Mathematics for Engineering Research](#)
42. [NLP, Web Scraping, Recommendation System using Deep Learning](#)
43. [Outcome Based Education and Quality Assurance in Teaching- Phase 1](#)
44. [Outcome Based Education And Quality Assurance In Teaching](#)
45. [Outcome Based Education with Assessment and Evaluation](#)
46. [Paradigm shift in Assessment and Evaluation Practices for Engineering](#)
47. [Pattern Analysis for Speech Signal Processing](#)
48. [Performance Improvement in smart grid using AI techniques](#)
49. [Photonics](#)
50. [Practical Data Science](#)
51. [Product Design](#)
52. [Professional Ethics](#)
53. [Python for Machine Learning](#)
54. [Rapid Prototyping](#)
55. [Recent Advances in Communication and Networking](#)
56. [Recent Advances in seismic and wind load analysis of structures](#)
57. [Recent Research Advances in Geotechnical and Geological Engineering](#)
58. [Recent research trends in industrial drives and power systems](#)
59. [Renewable Energy and Power Electronics for Electric Vehicle Applications](#)
60. [Renewable Energy and Power Electronics for Industrial Drives Application –](#)
61. [Robust Scalable Web Application Development Using Python](#)
62. [Scientific Computing with Python](#)



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- 63. [Sensor Technology](#)
- 64. [Solar Energy Technologies and applications](#)
- 65. [Technology Management](#)
- 66. [Trends and Challenges in Digital Business Innovation](#)
- 67. [VLSI Architectures for Digital Signal Processing Systems](#)
- 68. [Waste Valorization towards a Sustainable Environment](#)



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2021-22 FDP Participation

1. [Advanced Soil Reclamation Techniques](#)
2. [Advanced Techniques of Material Characterization for Research](#)
3. [Advancements in Geotechnical Engineering](#)
4. [Advances in Bridge Engineering](#)
5. [Advances in Natural Language Processing using AI](#)
6. [Advances in Signal Processing](#)
7. [AI and Data science pedagogical approach](#)
8. [AI Enabled IoT Networks](#)
9. [Azure Devops\(Coursera\)](#)
10. [Biomedical Signal Processing](#)
11. [Certified specialist in MERN Full Stack development](#)
12. [DC Community Level Grid Challenges in Protection Control](#)
13. [Decision Modeling](#)
14. [Green Energy Technologies for sustainable development](#)
15. [High-Performance Computing And Deep Learning For Image And Text Analysis](#)
16. [Introduction To Internet Of Things](#)
17. [Machine Learning](#)
18. [Mathematical Foundation of ML](#)
19. [Modern Web Application Development With MEAN STACK](#)
20. [Novel Materials](#)
21. [Outcome based education in professional education](#)
22. [Pedagogy and Learning Mapping New Approaches](#)
23. [Potential areas in renewable technologies and Grid Integration](#)
24. [Power Electronics for Power Systems](#)
25. [Recent Advances In Biomedical Signal And Image Processing](#)
26. [Recent Trends in Future Generation Wireless Networks](#)
27. [Resources for research ,Journal selection Research Productivity](#)
28. [Smart Tools and Methodologies for Academic](#)
29. [Social Entrepreneurship](#)
30. [Total Surveying](#)
31. [Wearable Devices](#)



2022-23 FDP Participation

1. [A framework for Interoperable Blockchain to Streamline Supply chain](#)
2. [Accreditation and Outcome Based Learning](#)
3. [Addressing Open Problems in Medical Domain through Artificial Intelligence](#)
4. [Advanced Optimisation Techniques](#)
5. [Advanced Pedagogical Techniques](#)
6. [Advanced research and quality publications](#)
7. [Advancements in Computational Forensic](#)
8. [Big Data Computing](#)
9. [Biomedical Signal and Image Processing](#)
10. [Blockchain Technology and its Applications](#)
11. [Computer Integrated Manufacturing](#)
12. [Cryptography and Network Security\(NPTEL\)](#)
13. [Current strategies in Civil Engineering](#)
14. [Deep Learning](#)
15. [Deep Learning for Beginners](#)
16. [Demystifying Machine learning algorithms](#)
17. [Digital Image Processing](#)
18. [Electrical System Design and Estimation](#)
19. [Emerging trends and advances in food processing technology](#)
20. [Emerging Trends and Technical Developments in Automated Machines](#)
21. [Emerging trends in power electronics and control for electric vehicle and smart](#)
22. [Emerging Trends in Power, Energy and Control](#)
23. [Fundamentals of Scientific Computing,Signal Processing and Embedded](#)
24. [Gender Justice and workplace security](#)
25. [Graphical system Design using Labview](#)
26. [ICT for Teaching and learning](#)
27. [Machine Learning for Interdisciplinary Engineering Applications](#)
28. [Mentor training programme](#)
29. [Methods for Creating a Quality Research Article](#)
30. [Nano materials Developments, applications and future outlook](#)



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31. [National level FDP on Recent Technologies](#)
32. [Python for Data Science\(NPTEL\)](#)
33. [Social Applications of Machine Learning](#)
34. [Teachers induction Training Program](#)
35. [Statistical & Machine Learning Techniques with Applications](#)
36. [Toyota Production Systems](#)
37. [Trends in High Frequency Communications](#)
38. [Trends in 3D printing _ Manufacturing](#)
39. [Trends in Grids](#)
40. [Trends in Mechatronics and Manufacturing](#)
41. [Universal Human value II](#)