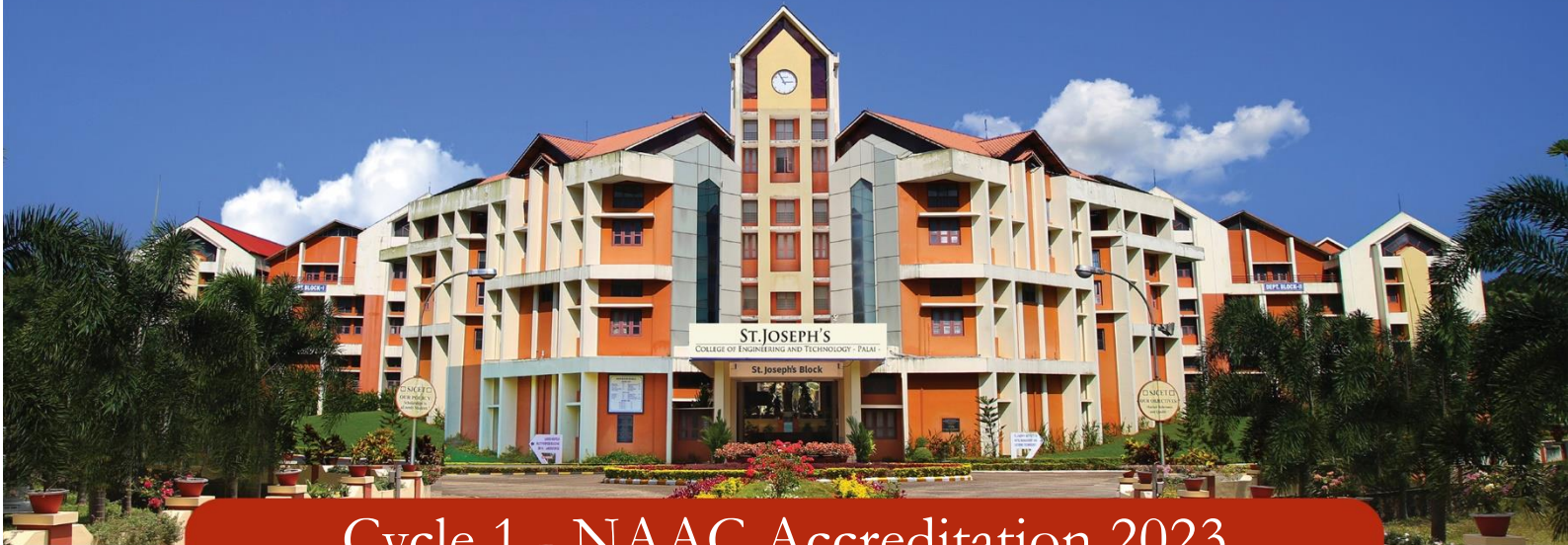




ST. JOSEPH'S

COLLEGE OF ENGINEERING
AND TECHNOLOGY,
- PALAI -

Choondacherry P.O., Palai, Kottayam Pin 686579, Kerala, India
Phone: +91 4822-239700, 239301, 239302
Email: info@sjcetpalai.ac.in • Website: www.sjcetpalai.ac.in



Cycle 1 - NAAC Accreditation 2023

Criterion - 3

Research, Innovations & Extension

Books Chapters Published

Submitted to:



National Assessment and Accreditation Council



ST. JOSEPH'S

COLLEGE OF ENGINEERING
AND TECHNOLOGY,
- PALAI -

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Book Chapter Details

2022-23

Sl. No.	Name of the Teacher	Title of the book published	Title of the Chapter with Institutional Website Link	Publisher Link
1	Dr. Joby P P	Blockchain, IoT, and AI Technologies for Supply Chain Management	Ensuring Provenance and Traceability in a Pharmaceutical Supply Chain Using Blockchain and Internet of Things	https://books.google.com.vn/books?id=fDaxEAAAQBAJ&printsec=frontcover&dq=Blockchain,+IoT,+and+AI+Technologies+for+Supply+Chain+Management&hl=en&sa=X&redir_esc=y#v=onepage&q=Blockchain%2C%20IoT%2C%20and%20AI%20Technologies%20for%20Supply%20Chain%20Management&f=false
2	Dr. Lijo Paul Mr. Abyson Scaria	Evolutionary Optimization of Material Removal Processes	Multi-Response Optimization During High-Speed Drilling of Composite Laminate Using Grey Entropy Fuzzy (GEF) and Entropy-Based Weight Integrated Multi-Variate Loss Function	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003258421-3/multi-response-optimization-high-speed-drilling-composite-laminate-using-grey-entropy-fuzzy-gef-entropy-based-weight-integrated-multi-variate-loss-function-jalumedibabu-khaleel-ahmed-lijo-paul-abyson-scaria-paulodavim
3	Mr. Justin Jose Dr. Rajesh Baby	Energy Storage Systems	Design and Development of a Water-Cooled Proton Exchange Membrane Fuel Cell Stack for Domestic Applications	https://doi.org/10.1007/978-981-19-4502-1_11



ST. JOSEPH'S

COLLEGE OF ENGINEERING
AND TECHNOLOGY,
- PALAI -

4	Mr. S. Babu Sanker Dr. Rajesh Baby	Energy Storage Systems	A Review on Phase Change Material-metal Foam Combinations for Li-Ion Battery Thermal Management Systems	https://doi.org/10.1007/978-981-19-4502-1_5
5	Dr. Rajesh Baby	Energy Storage Systems	Predicting the Performance Enhancement of Proton Exchange Membrane Fuel Cell at Various Operating Conditions by Artificial Neural Network	https://doi.org/10.1007/978-981-19-4502-1_14
6	Dr. Rajesh Baby	Energy Storage Systems	Review on Characteristic Features of Jet Impingement that Favours Its Application in Solar Air Heaters	https://doi.org/10.1007/978-981-19-4502-1_19
7	Mr. Bino Thomas	Carbon Nanotubes for Energy and Environmental Applications	Carbon Nanotubes for Energy Applications	https://www.appleacademicpress.com/carbon-nanotubes-for-energy-and-environmental-applications-/9781774637173

2021-22

Sl. No.	Name of the Teacher	Title of the book published	Title of the Chapter with Institutional Website Link	Link
1	Ms. Anna N Kurian	Machine Learning for Critical Internet of Medical Things	Artificial Intelligence of Things for Early Detection of Cardiac Diseases	https://link.springer.com/chapter/10.1007/978-3-030-80928-7_4
2	Ms. Anna N Kurian	Machine Learning for Critical Internet of Medical Things	Robotic Technology in the development of Prosthesis	https://link.springer.com/chapter/10.1007/978-3-030-80928-7_7
3	Dr. Lijo Paul, Mr. Abyson Scaria	Multi response optimisation during high speed drilling of composites	Multi response optimisation during high speed drilling of composites	https://www.mdpi.com/227-9717/10/9/1865/pdf



ST. JOSEPH'S

COLLEGE OF ENGINEERING
AND TECHNOLOGY,
- PALAI -

4	Dr. Bennet Kuriakose	Advances in Civil Engineering, Springer	Soil-Structure Interaction Analysis of Tall Steel Chimney Subjected to Wind Load	https://link.springer.com/chapter/10.1007/978-981-15-5644-9_74
5	Dr. Bennet Kuriakose	Advances in Civil Engineering, Springer	Nonlinear Finite Element Analysis of Plain Footing	https://link.springer.com/chapter/10.1007/978-981-15-5644-9_73

2020-21

Sl. No.	Name of the Teacher	Title of the book published	Title of the Chapter with Institutional Website Link	Link
1	Dr. Shancy Augustine, Dr. Lijo Paul	Advanced Machining and Finishing	Relevance of micromachine in microfluidics and biomedical devices	https://www.sciencedirect.com/science/article/pii/B9780128174524000099#:~:text=Micromachining%20has%20contributed%20extensively%20in,for%20maintaining%20accuracy%20in%20diagnosis.
2	Dr. Tomson Thomas, Mr. Anoopraj M. R., Dr. Ginu Ann George	Advanced Aspects of Engineering Research	An Introduction to Wind Energy Conversion System with Low Voltage Ride-Through Capability	https://stm.bookpi.org/AAPER-V9/article/view/1014
3	Dr. Ginu Ann George, Dr. Tomson Thomas	Advanced Aspects of Engineering Research	Charge Equalization of Battery System Considering State of Charge Variations in Electric Vehicle Application	https://stm.bookpi.org/AAPER-V10/article/view/752
4	Dr. Lijo Paul Dr. Jilse Sebastian	Evaluation of reliability of empirical models for estimating global solar radiation	Plastic recycling and regeneration	https://www.sciencedirect.com/science/article/pii/B978012818115700016X
5	Dr. Lijo Paul	High speed machining	High speed machining of composite materials	https://www.sciencedirect.com/science/article/pii/B9780128150207000035



ST. JOSEPH'S

COLLEGE OF ENGINEERING
AND TECHNOLOGY,
- PALAI -

6	Dr. Bennet Kuriakose, Dr. Rajesh Baby	Green Buildings and Sustainable Engineering, Springer	Recent Trends in Use of Phase Change Materials for Sustainable Thermal Management of Buildings: A Review	https://link.springer.com/chapter/10.1007/978-981-15-1063-2_13
7	Dr. Rajesh Baby	Green Buildings and Sustainable Engineering, Springer	Soil Organic Carbon Estimation Using Remote Sensing Technique	https://link.springer.com/chapter/10.1007/978-981-15-1063-2_33
8	Dr. Rajesh Baby	Green Buildings and Sustainable Engineering, Springer	Thermal Performance of Loop Heat Pipes Using Nanofluids	https://link.springer.com/chapter/10.1007/978-981-15-1063-2_21
9	Mr. Alex Chollackal	Green Buildings and Sustainable Engineering, Springer	Numerical Simulation and Performance Analysis of MLI During Reentry of Hypersonic Vehicles	https://link.springer.com/chapter/10.1007/978-981-15-1063-2_38
10	Dr. Gemini George	Advances in Computing and Network Communications	Deploy-Web Hosting using Docker Container	https://link.springer.com/chapter/10.1007/978-981-33-6977-1_26
11	Dr. Gemini George	Advances in Computing and Network Communications	An Android Based Smart Home Automation System in Native Language	https://link.springer.com/chapter/10.1007/978-981-33-6987-0_7

2019-20

Sl. No.	Name of the Teacher	Title of the book published	Title of the Chapter with Institutional Website Link	Link
1	Dr. Lijo Paul	Materials Forming, Machining and Post Processing	Non-conventional Micro-machining Processes	https://link.springer.com/chapter/10.1007/978-3-030-18854-2_5
2	Dr. K J George	Engineer's Day Souvenir	Flood and Landslide Mitigation by Improving the Midlands of Kerala	Flood and Landslide Mitigation by Improving the Midlands of Kerala



ST. JOSEPH'S

COLLEGE OF ENGINEERING
AND TECHNOLOGY,
- PALAI -

3	Mr. Jenson Jose	Lecture Notes in Civil Engineering, Springer	Environmental and Economic Impact Assessment of Flooring Materials	https://link.springer.com/chapter/10.1007/978-3-030-26365-2_8
4	Ms. Ance Mathew	Lecture Notes in Civil Engineering, Springer	Analysis and Comparative Study of Seismically Detailed Column Under Blast Loading	https://link.springer.com/chapter/10.1007/978-3-030-26365-2_58
5	Ms. Mariamol Kuriakose	Lecture Notes in Civil Engineering, Springer	Effect of Mid-Storey Isolation in Regular and Stiffness Irregular Buildings	https://link.springer.com/chapter/10.1007/978-3-030-26365-2_56

2018-19

Sl. No.	Name of the Teacher	Title of the book published	Title of the Chapter with Institutional Website Link	Link
1	Dr. Lijo Paul	Drilling Technology	Drilling of composite materials: methods and tools	https://www.degruyter.com/document/doi/10.1515/9783110481204-004/html?lang=en