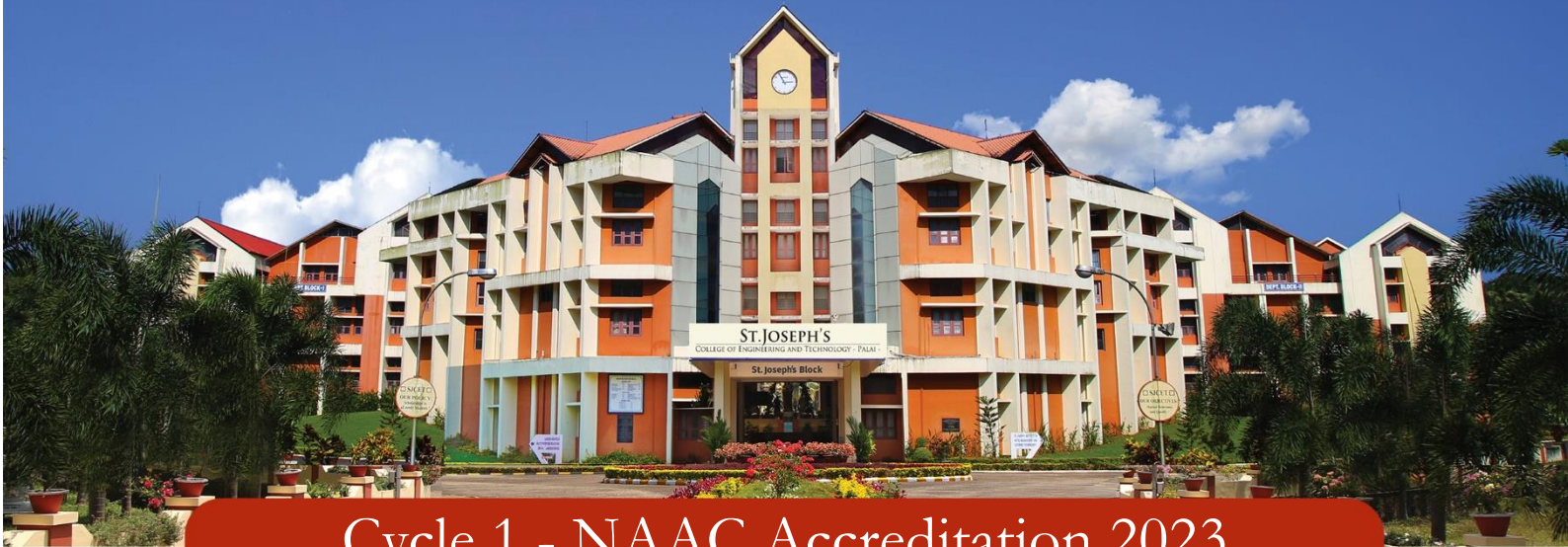




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Cycle 1 - NAAC Accreditation 2023

Criterion - 3

Research, Innovations & Extension

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the last five years (INR in Lakhs)

Submitted to:



National Assessment and Accreditation Council



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3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

3.1.1.1: Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Year	2022-23	2021-22	2020-21	2019-20	2018-19	Total
No of Projects	8	7	10	12	4	41
INR in Lakhs	24.914	27.28	21.164	27.295	9.2	109.85



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3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the academic year 2022-23

S.No	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Project Title	Amount Sanctioned/Utilization	Name of the Funding Agency
1	Dr. Jilse Sebastian (PI) Dr.Lijo Paul(Co-I)	ME	Synthesis of photo curable resin from cellulose nanocrystals	32,000	APJAKTU-Kerala
2	Dr. Rajesh Baby (PI) Dr. George Tom Varghese (Co-I)	ME	Smart Bed, A self-adjustable bed for bedridden patients to prevent bedsores	36,500	
3	Dr. Bennet Kuriakose	CE	Self-healing concrete using bacteria from cow dung	50,000	
4	Ms. Divya Sunny	CSE	SpecAssist - Live transcribing smart glasses	18,835	
5	Mr. Ivin Jose	ME	Tool design and fabrication of Hybrid Electro Discharge Grinding Machining	1,20,000	CERD -Research Seed Money
6	Dr. Tomson Davis	ECE	Design of Low Complexity Digital Hearing Aid using Non-uniform Filter Banks	1,65,000	APJAKTU-Kerala
7	Mr. Sreesh P R	ECE	Student Mentorship Programme	5,58,460 Utilization	IEEE Kerala Section
8	Dr.Rajesh Baby(PI), Mr.Babusanker S(Co-I)	ME	Design, fabrication and implementation of Phase Change Materials (PCMs) based passive cooling system for thermal management of Li-ion batteries used in Electric Vehicles	15,10,615	ANERT
Total Amount Sanctioned in Lakhs				24.9141	



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TO WHOMSOEVER IT MAY CONCERN

26.06.23

I certify that projects with S.No. 1-6 and 8 were sanctioned in the year 2023. Utilization certificates for these projects have not been submitted as they have not yet completed one year.


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3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the academic year 2021-22

S.No	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Project Title	Amount Sanctioned/Utilization	Name of the Funding Agency
1	Dr. Rajesh Baby/ Dr. George Tom Varghese	ME/EIE	Development of an automatic height adjusting pillow to relieve chronic neck pain (cervicalgia)	45,000 Utilization	APJAKTU-Kerala
2	Mr. Ivin Jose	ME	Tool design and fabrication of hybrid electro discharge grinding set up for micro channels	50,000	
3	Dr. Madhukumar S	ECE	Borewell rescue robot	21,500	
4	Mr. Anto Manuel	ECE	An Intelligent Device to Predict Cloud Burst	21,500 Utilization	
5	Dr. Praseetha V M	CSE	Gesture based Device Controlling System	16,300	
6	Mr. Sabarinath. G	ECE	Identification and classification of disease/pest infestations/nutritional deficiency in the south Indian agricultural belt using AI	12,35,085 Utilization	AI for Earth Microsoft Azure Compute Grant
7	Dr. Lijo Paul (PI) Dr. Jilse Sebastian (Co-I)	ME	Design and development of patient specific biomedical devices using SLA additive manufacturing with bio plastics	14,00,000 Utilization	AICTE-RPS
Total Amount Sanctioned in Lakhs				27.28	



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3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the academic year 2021-22

S.No	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Project Title	Amount Sanctioned/Utilization	Name of the Funding Agency
1	Dr. Rajesh Baby/ Dr. George Tom Varghese	ME/EIE	Development of an automatic height adjusting pillow to relieve chronic neck pain (cervicalgia)	45,000 Utilization	APJAKTU-Kerala
2	Mr. Ivin Jose	ME	Tool design and fabrication of hybrid electro discharge grinding set up for micro channels	50,000	
3	Dr. Madhukumar S	ECE	Borewell rescue robot	21,500	
4	Mr. Anto Manuel	ECE	An Intelligent Device to Predict Cloud Burst	21,500 Utilization	
5	Dr. Praseetha V M	CSE	Gesture based Device Controlling System	16,300	
6	Mr. Sabarinath. G	ECE	Identification and classification of disease/pest infestations/nutritional deficiency in the south Indian agricultural belt using AI	12,35,085 Utilization	AI for Earth Microsoft Azure Compute Grant
7	Dr. Lijo Paul (PI) Dr. Jilse Sebastian (Co-I)	ME	Design and development of patient specific biomedical devices using SLA additive manufacturing with bio plastics	14,00,000 Utilization	AICTE-RPS
Total Amount Sanctioned in Lakhs				27.28	



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3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the academic year 2020-21

S.No	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Project Title	Amount Sanctioned/Utilization	Name of the Funding Agency
1	Mr. Dinu George	ME	Experimental Investigation of a Photo-Voltaic Thermal (PVT) collector integrated mixed mode solar dryer for drying cassava	1,10,000 Utilization	CERD - Research Seed Money APJAKTU-Kerala
2	Dr. Arun P	ECE	COVBOT- An IoT based intelligent wall mount multi-functional screening system	40,000 Utilization	
3	Dr. Rajesh Baby	ME	Design and development of an Origami inspired Gripper for picking objects of variable geometry	32,000 Utilization	APJAKTU-Kerala
4	Dr. Giby Jose	ECE	Automatic Breaking system in Handicapped Scooter	10,000 Utilization	
5	Mr. Anto Manuel	ECE	MEDIGLOVE	5000	
6	Dr. Joby P P	CSE	Ride Sharing Platform	10,000 Utilization	KSCSTE
7	Dr. Madhukumar S	ECE	Medical Assistive Technology Robot (MAT Robo)	39,000 Utilization	IEEE HAC R10 HTA
8	Dr. Arun. P	ECE	PREVENTIA	28,400 Utilization	IEEE HAC R10 HTA
9	Dr. Arun. P	ECE	AILE	12,000 Utilization	IEEE HAC
10	Dr. Rajesh Baby	ME	Experimental Investigations on Nano enhanced Phase Change Materials for latent heat storage applications	18,30,000 Utilization	(SERB) TARE Fellowship
Total Amount Sanctioned in Lakhs				21.164	



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3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the academic year 2019-20

S.No	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Project Title	Amount Sanctioned/Utilization	Name of the Funding Agency
1	Dr. Jilse Sebastian	ME	Performance and emission analysis of Diesel engine fuelled with blend of biodiesel from waste cooking oil, pyrolysis plastic oil and diesel	44,783 Utilization	APJAKTU-Kerala
2	Dr. Rajesh Baby	ME	Design and fabrication of Gasifier Stove	50,000 Utilization	
3	Mr. Kishore Sebastian	CSE	Text to speech Conversion for visually impaired	10,000 Utilization	KSCSTE
4	Ms. Ashly Thomas	CSE	IoT based drowsy Driver warning System	97,00 Utilization	KSCSTE
5	Ms. Smitha Jacob	CSE	MyGarageZone	50,000 Utilization	Kerala Startup Mission (IDEA GRANT)
6	Ms. Ginu Ann George	EEE	ECO-BIN	10,000	KSCSTE
7	Ms. Alphonsa Johny	CSE	Efficient Big Data Processing using Neo4j GraphDB	20,00,000 Utilization	UGC
8	Dr. Bennet Kuriakose (PI) Dr. Rajesh Baby (Co-I)	CE & ME	Experimental Investigations on Energy Efficient Buildings using Phase Change Materials in Tropical Climate	1,00,000 Utilization	ANERT, Thiruvananthapuram



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S.No	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Project Title	Amount Sanctioned/Utilization	Name of the Funding Agency
9	Ms. Alphonsa Johny	CSE	Efficient Big Data Processing Technique	60,000 Utilization	CERD Research Seed Money Scheme - APJAKTU-Kerala
10	Mr. Shiblemon K V	ME	Investigations on Heat transfer Enhancement in Micro channel Heat sinks	1,35,000 Utilization	
11	Mr. Anooplal B	ME	Phase change material (PCM) based thermal management of Li ion Battery: An experimental investigation	1,20,000 Utilization	
12	Mr. Pradeep PV	ME	Additive manufacturing of bio-degradable and photocurable elastomer and polymer-based composites	1,40,000 Utilization	
Total Amount Sanctioned in Lakhs				27.29483	



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3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the academic year 2018-19

S.No	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Project Title	Amount Sanctioned/Utilization	Name of the Funding Agency
1	Dr. Lijo Paul	ME	Experimental Investigation and performance optimization of micro AJM process	1,30,000 Utilization	CERD - Research Seed Money Scheme - APJAKTU-Kerala
2	Dr. Jilse Sebastian	ME	Experimental investigations on performance and emission characteristics of CI engine fuelled by plastic oil derived from polyethylene waste plastic	1,40,000 Utilization	CERD - Research Seed Money Scheme - APJAKTU-Kerala
3	Dr. Rajesh Baby/ Mr. Justin Jose	ME	Development of PEMFC stack for domestic applications	6,00,000 Utilization	ANERT
4	Dr. Lijo Paul	ME	3D printer filament from waste plastic	50,000 Utilization	APJAKTU-Kerala
Total Amount Sanctioned in Lakhs				9.2	