



# St. MICHAEL COLLEGE OF ENGG. & TECH.



Ln. Dr. V. Michael  
Founder



(An ISO 9001:2015 Certified Institution)  
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.)  
(Recognized under 2(f) of UGC Act 1956)

Kalayarkoil - 630 551, Sivagangai Dist. Cell : 9942796723  
Email : info@smcet.edu.in web : www.smcet.edu.in



Chairman : Ln. Dr. M. Stalin Arockiaraj B.E., M.S.,

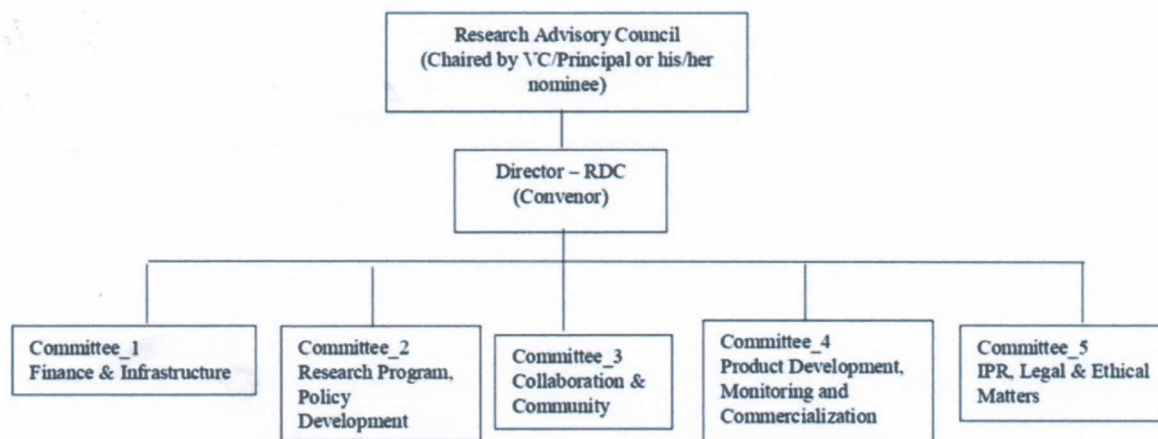
Ref: SM CET/AO/2024-25/04 2504

Date: 25.04.2025

## RESEARCH AND DEVELOPMENT CELL

St. Michael College of Engineering and Technology management encourages research and development in fields of science and technology. Students and faculty are constantly motivated for achieving the research outputs. The faculty is encouraged to pursue the research projects and they see that the students are involved. The industrial problems are collected from the local industry and allocated to the interested faculty as per their domain of expertise. This very significant mandate of the institute is to monitor the research activities. The college invites the experts in the various fields of technology. The following is the committee for the academic year 2025-26.

We Follow the Functionalities, Guidelines as proposed by UGC : [Click to View Guidelines](#)



### Research Advisory Council

S. No	Name	Designation	Position
1	Dr. S. Karpagam	Principal	Chairperson
2	Dr. J. Bridget Nirmala	Professor – CSE	Member
3	Dr. G. Sasi	Professor – ECE	Member





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Date: 25.04.2025

Director – RDC

Dr. S. Rajanarayanan,  
Head of the Department,  
Department of Biotechnology ( PG).

### Finance & Infrastructure Committee

S. No	Name	Designation	Position
1	Dr. Eswara Priya	Professor – Biotechnology	Coordinator
2	Mrs. L. Devi	Assistant Professor – CSE	Member
3	Mr. E. Rajasekaran	Assistant Professor – EEE	Member

### Research Program, Policy Development Committee

S. No	Name	Designation	Position
1	Dr. K. Mathan kumar	Professor – S & H	Coordinator
2	Dr. S. Sahaya Arockia Selvi	Professor – S & H	Member
3	Mr. C. Balakumar	Assistant Professor – ECE	Member

### Collaboration & Community Committee

S. No	Name	Designation	Position
1	Dr. A. C. Shagar	Professor – ECE	Coordinator
2	Mr. R. Chakkravarthy	Assistant Professor – S & H	Member
3	Ms. J. Jahana Barvin	Assistant Professor – Biomedical	Member





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## Product Development, Monitoring and Commercialization Committee

S. No	Name	Designation	Position
1	Dr.M. B. Geetha	Professor – Chemical	Coordinator
2	Mr. V. Krishnamoorthy	Associate Professor – ECE	Member
3	Mr. G. Sabari Narayanan	Assistant Professor – MECH	Member

## IPR, Legal & Ethical Matters Committee

S. No	Name	Designation	Position
1	Dr. A. Arputha Pragasam	Professor – S & H	Coordinator
2	Dr. R. Prasanna Lakshmi	Associate Professor – MECH	Member
3	Mrs. A. Thamarai Muthumani	Associate Professor – CSE	Member



  
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## Research & Book Publications: 2023-2024

### 1. Research Publications

S.No	Title of Paper	Name of Authors	Department	Journal Name	Year of Publication
1.	Enhanced Generalization Performance in Deep Learning for Monitoring Driver Distraction: A Systematic Review.	Joel John M, Dinakaran K, Kavin F, Anitha P, Gurupandi D, & Pradeepa K.	Computer Science and Engineering	Journal of Advanced Research in Applied Sciences and Engineering Technology	2024
2.	Analysing the impact of 3d printing process Parameters on the mechanical properties of Onyx and their relationship with material Hardness	N. Raja rajeswari, S. Sellakumar, K. Pradeepa, N. Bharathiraja	Computer Science and Engineering	Journal of Environmental Protection and Ecology	2024
3.	Ultra-low latency communication technology for AR application in mobile periphery computing	Nagu, B., Arjunan, T., Bangare, M. L., Karuppaiah, Pradeepa., Kaur, G., & Bhatt, M. W.	Computer Science and Engineering	Paladin Journal of behavioral Robotics,	2023
4.	Emerging Trends in Cyber security Challenges with Reference to Pen Testing Tools in Society 5.0	Kaur, G, Bharathiraja, N. Singh, K.D. Rodriguez, C.R. Pradeepa, K.	Computer Science and Engineering	Artificial Intelligence and Society 5.0: Issues, Opportunities, and Challenges	2024
5.	IOT based face mirror	Mr. C. Balakumar, Mr. A. Britto	Electronics and Communication Engineering	International Research Journal of Modernization in Engineering Technology and Science	2023
6.	Design and Fabrication of Moving Robotic arm control using Android Application	Mr. S. Murugan Mr. S Prem	Mechanical Engineering	International Journal of Creative Research Thoughts	03-03-2024
7.	An Eco-Friendly Approach For The Synthesis And Characterization Of Copper Nanoparticles Using Amaranthus Spinousus Leaves	Dr. B. Eswarapriya and Dr. A. Shiny Guruce	Biotechnology	International Journal of Progressive Research In Engineering Management & Science	2023
8.	Enhancing Automated Security: Biometric Authentication for Vehicle Access Control	Mr. G. Karthikeyaraj	ECE	International Journal for Mutidisciplinary Research (IJFMR)	OCT 2023
9.	Enhancing Automated Security: Biometric Authentication for Vehicle Access Control	Mr. G. Karthikeyaraj	ECE	International Journal for Mutidisciplinary Research (IJFMR)	OCT 2023
10.	Implementing an RSSI-Based Localization Algorithm for Alzheimer's Disease in Smart Home Systems Using Wireless Sensor Networks	Mr.V. Krishnamoorthi	ECE	Computer Research and Development	2024
11.	Review on Phytochemical Activity of Sida Acuta	Dr. B. Eswarapriya	Biotechnology	International Journal of Research Publication And Reviews	2023
12.	Review Concerning The Therapeutic Applications of	Dr. B. Eswarapriya	Biotechnology	International Research	2023



	Clitoria Ternatea			Journal of Modernization In Engineering Technology and Science	
13.	Investigating the effects of Urea-Zinc sulphate –L- Phenylalanine” on the corrosion of mild Steel Exposed to pH-4 sulphuric acid	Dr. Geetha Manoharan. M (1 <sup>st</sup> Author ) & S.Jenish (3 <sup>rd</sup> author)	Chemistry & Chemical Engineering	Current Analytical Chemistry	2024
14.	Hydrogenic Impurity states in ZnSe low dimensional semiconductor nanostructures	Dr.B.Karpagam	S&H	Nano next	Accepted under publication
15.	A Study on Exploring the Intersection of Sustainability and Industry 5.0: Towards Human-Centric and Eco-Friendly Manufacturing	Dr. S. Saranya	MBA	Navigating the future: Unveiling the dynamics of Industry 5.0	2024
16.	A Study on Implementation and Upgradation of Strategic Cost Management for Industry 5.0	Mr. J. Kenmaiselvam	MBA	Navigating the future: Unveiling the dynamics of Industry 5.0	2024
17.	A Study on Sustainable Innovation Framework of Lean Six Sigma in Industry 5.0	Mrs. A. Sahayastella	MBA	Navigating the future: Unveiling the dynamics of Industry 5.0	2024
18.	A Study on Revolution of Industry 5.0 And Development of Fintech in India	Mrs. P. Banupriya	MBA	Navigating the future: Unveiling the dynamics of Industry 5.0	2024
19.	A Study on Unravelling Human Challenges and Its Solutions in The Workplace Evolution of Industry 5.0	Ms. J. Rubiserlin	MBA	Navigating the future: Unveiling the dynamics of Industry 5.0	2024

## 2. Books Publication

S.No	Name of Faculty member	Department	Title of the Book	Publisher Name	ISBN Number
1	Mrs. K. Pradeepa	Computer Science and Engineering	Crafting Expressive Art with Hand Gestures in Python	Shineeks Deeper Knowledge Publishers	979-8-89496-009-8
2	Mrs. K. Pradeepa	Computer Science and Engineering	Insights into Algorithms and Data Structures through Dynamic Visualizations	Shineeks Deeper Knowledge Publishers	979-8-89496-009-8
3	Dr. Geetha Manoharan. .M	S&H	Environmental Chemistry	Infinite Research	978-81-965712-0-6
4	Dr. B.Karpagam	S&H	Biopolymers in Pharmaceutical and Food applications, Volume 2 (Chapter: Dextran)	Wiley, Germany	978-3-527-35413-9
5	Dr. B.Karpagam	S&H	Environmental Acts	Notion Press	9798895885826



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## Project Grants: 2023-2024

S.No	Name of Faculty members	Department	Capacity as	Title of the Project work	Name of Project fund agencies	Sanctioned grant (in Lakhs)	Duration of the grant
1	Mrs. K. Pradeepa	Computer Science and Engineering	Students' Project Supervisor	Oil & Gas Industrial Safety Smart Alarm	TN Naan Mudhalvan	10000	Three months



  
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## Research Publications : 2022-2023

### 1. Research Publications

S. No	Name of the faculty members	Department	Title of paper	Journal name	Year of Publication
1	Mr. C. Balakumar, Mr. A. Britto	Electronics and Communication Engineering	IOT based face mirror	International Research Journal of Modernization in Engineering Technology and Science	2023
2	Mrs. I. Jeya Sheela , Mrs. K Pradeepa	Computer Science Engineering	A look at cryptography and cyber security	International Research Journal of Modernization in Engineering Technology and Science	2023
3	Mrs. K Pradeepa	Computer Science Engineering	Artificial Intelligence-Based Secured Power Grid Protocol for Smart City	Sensors	2023
4	Mrs. K Pradeepa	Computer Science Engineering	Ultra-low latency communication technology for Augmented Reality application in mobile periphery computing	Paladyn, Journal of Behavioral Robotics	2023
5	Dr. B. Karpagam	Chemistry	Nanotechnology in Cancer Diagnosis: Current Trends and Future Prospects	International Journal for Scientific Research & Development]	2023
6	Dr. B. Karpagam	Chemistry	Transition metal complex derivatives of thiosemicarbazone as multi target drugs	International journal for innovative research in multidisciplinary field	2023
7	Mrs. K Pradeepa	Computer Science Engineering	Machine Learning Approach Based on Fluid Dynamics to Study on Porosity Structure	Journal Of Environmental Protection and Ecology	2023
8	Mrs. K Pradeepa	Computer Science Engineering	Recent Development of Carbon Nanotubes for Solar Cells and Photovoltaics	International Journal of Nanomaterials and Molecular Nanotechnology	2023

### 2. Book Publication

S.No	Name of Faculty member	Department	Title of the Book	Publisher Name	ISBN Number
1	Dr. B. Karpagam	S&H	Tamilar Marabu	Aelay Publish, Tirunelveli	978-93-5533-537-1



*[Signature]*  
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## Project Grants : 2022-2023

S. No	Name of Faculty members	Department	Capacity as	Title of the Project work	Name of Project fund agencies	Sanctioned grant (in Lakhs)	Duration of the grant
1	Dr. M.B. Geetha	Chemical Engineering	Students' Project Supervisor	Synthesis of porous activated carbon spheres (PACS) from soya chunk as an adsorbent media for the removal of synthetic dyes	Tamilnadu State Council for Science and Technology, Chennai	0.075	Three months
2	Mr. V. Vijay Akash Varma	Biotechnology	Students' Project Supervisor	Ethanobotanical plant Hygrophila auriculata used for neonatal eczema	Tamilnadu State Council for Science and Technology, Chennai	0.075	Three months



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## Research Publications : 2021-2022

### 1. Research Publications

S. No	Title of Paper	Name of Authors	Department	Journal Name	Year of Publication
1.	A survey on mathematical application in engineering	Dr. S. Geetha	Mathematics	International Research journal of education and Technology	2021
2.	A Survey on character Recognition based on Deep Learning techniques	Mr. V. Kumaresan	Electronics and Communication Engineering	Journal of Emerging Technologies and Innovative Research	2021
3.	Image Retrieval using Support Vector Machine method in Remote sensing Application	Mr. V. Kumaresan	Electronics and Communication Engineering	International Journal of Advances in Engineering and Management (IJAEM)	2021
4.	Effective removal of methylene blue from aqueous solution using charcoal.	Dr. M.B.Geetha	Chemical Engineering	International Journal of Innovative Research in Technology	2021
5.	Zigbee Based Touch Screen Menu Ordering System	Mrs. R. Umadevi Dr. A.C. Shagar	Electronics and Communication Engineering	International Journal of Scientific Research and Engineering Development	2021
6.	Vibration response of multiple rotor systems with crack and misalignment	Mr. C. Rajesh Mr. M. Nagarajan	Mechanical Engineering	International Journal of Research in Engineering and Science (IJRES)	2021
7.	A Survey of Various Converters	Mrs. P. Mathumathi	Electrical and Electronics Engineering	International Journal of Research in Computer Applications and Robotics	2021
8.	Synthesis, spectroscopic and crystal structure of nickel(II) complex of thiosemicarbazone based Schiff base: antimicrobial, anticancer and molecular docking studies	Mr. Balasubramanian Dr. B. Karpagam	Chemistry	Inorganic Chemistry Communications Elsevier	2021

### 2. Books Publications

S.No	Name of Faculty member	Department	Title of the Book	Publisher Name	ISBN Number
1	Dr. B.Karpagam	S&H	Environmental Science and Engineering	Aelay Publish, Tirunelveli	978-93-5533-587-6
2	Dr. B.Karpagam	S&H	Renewable and Sustainable Energy	Aelay Publish Tirunelveli	978-93-5533-587-6



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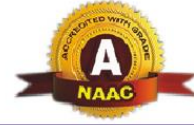
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S.No	Name of Faculty members	Department	Capacity as	Title of the Project work	Name of Project fund agencies	Sanctioned grant (in Lakhs)	Duration of the grant
1	Dr. M.B. Geetha	Chemical Engineering	Students' Project Supervisor	Production of biodegradable garbage bags from polyvinyl alcohol and pomegranate peel powder	Tamilnadu State Council for Science and Technology, Chennai	0.075	Three months
2	Prof. K. Petchiappan	Computer Science Engineering	Principal Investigator	Exploration of the Advanced Techniques and Trends in Android Game Development	Jofinity Soft Solutions Private Limited, Madurai	2.5	One year
3	Dr. S. Rajanarayanan	Biotechnology	Principal Investigator	Analysis of shelf life and keeping quality of organic inputs of BCX BIO ORGANICS for agriculture	BCX-Bioorganics	7.1	Two years



  
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