

MECHRITZ

Department Newsletter

ISSUE 1 : 2023 - 2024



Mechanical



RATHINAM
TECHNICAL CAMPUS
(AUTONOMOUS)



Engineering

Rathinam Technical Campus, Eachanari, Coimbatore - 641 012

NEWS LETTER

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VISION OF THE INSTITUTE

To be a leading and path-breaking Institution in multi-disciplinary education, research, and industry-related development for meeting the challenges of a New India.

MISSION OF THE INSTITUTE

M1. Provide quality Engineering Education, Foster Research and Development, inculcate innovation in Engineering and Technology through state-of-the-art infrastructure.

M2. Nurture young men and women capable of assuming leadership roles in society for the betterment of the country.

M3. Collaborate with industry, government organizations, and society for curriculum alignment and focused, relevant outreach activities.

★ EDITORIAL

Student Editors

Jeff Corwin J - III Year

Bharani Ram D - III Year

Faculty Editors

Mr. G. Vijayasekaran, AP

Mr. S. Tamilselvan, AP



VISION OF THE DEPARTMENT

To emerge as a leading influence in Mechanical Engineering education, research, and advancements driven by industry, making a substantial contribution to the transformative growth of the Nation

MISSION OF THE DEPARTMENT

M1 : Deliver top-tier Mechanical Engineering education, promote a culture of research and innovation, and leverage state-of-the-art infrastructure to stay at the forefront of Engineering and Technology.

M2 : Nurture future leaders in Mechanical Engineering, empowering them to take on pivotal roles in society and contribute significantly to the nation's advancement.

M3 : Foster dynamic collaborations with industry, government bodies, and society, ensuring curriculum alignment with evolving industry needs and engaging in targeted outreach activities to bridge the gap between academia and industry for mutual growth.

Program Specific Outcome (PSOs)

PSO NO.	PROGRAM SPECIFIC OUTCOMES (PSOs)
PSO 01	Application of Mechanical Engineering concepts to solve Engineering problems using modern tools and techniques.
PSO 02	Identify and recommend alternative Engineering methods and materials for sustainable development.

Program Educational Objectives (PEOs)

PEO NO.	PROGRAM EDUCATIONAL OBJECTIVES STATEMENTS
PEO 01	Graduates will have professional & technical career in mechanical and inter disciplinary domains providing innovative and sustainable solutions using modern tools.
PEO 02	Graduates will have effective communication, leadership, team building, problem solving, decision making and creative skills.
PEO 03	Graduates will practice ethical responsibilities towards their peers, employers, and society

ACADEMIC ACHIEVEMENTS

July' 23

Workshop / FDPs / Conference

S. Seenivasan ASP/Mechanical participated a five days Faculty Development Program on “CO PO MAPPING & CO PO ATTAINMENT” organized by GKCEM, Baruipur, during 10/07/23 to 14/07/23

G. Vijayasekaran AP Mechanical participated a five days Faculty Development Program on “CO PO MAPPING & CO PO ATTAINMENT” organized by GKCEM, Baruipur, during 10/07/23 to 14/07/23

S. Tamilselvan AP/ Mechanical participated a five days Faculty Development Program on “CO PO MAPPING & CO PO ATTAINMENT” organized by GKCEM, Baruipur, during 10/07/23 to 14/07/23

H. Mansoor Raja AP/ Mechanical participated a five days Faculty Development Program on “CO PO MAPPING & CO PO ATTAINMENT” organized by GKCEM, Baruipur, during 10/07/23 to 14/07/23

G. Kaviya AP/ Mechanical participated a five days Faculty Development Program on “CO PO MAPPING & CO PO ATTAINMENT” organized by GKCEM, Baruipur, during 10/07/23 to 14/07/23

Faculty Publication

T. Surulivel rajan, G. Vijayasekaran, M. Kamal, M. Gopi, S. Nanthakumar, R. Girimurugan, “Enhancement of natural fiber-reinforced plastics by polyester and seaweed waste fibers”, Published by Elsevier Materials Today: Proceedings, 2023, ISSN 2214 7853 on April 2023

G. Vijayasekaran, P. Selvaraju, A. Dominic, N. Krishnamurthy, A. Yasminebegum, S.k. Hasane Ahammad,”Mechanical properties evaluation of carbon nanotube/sisal fiber/marble dust reinforced polymer based composites”, Published by Elsevier Materials Today: Proceedings,2023, ISSN 2214-7853 on June 2023

M. Verapathran, S. Anbusezhian, Senthil Velmurugan Palanisamy, P. Prasath, C.R. Rajesh, S. Seenivasan, Evaluating the effects of steel and polypropylene fibers reinforced concrete using mechanical tests, Materials Today: Proceedings, ISSN 2214-7853 on July 2023

Events Organised

A Guest Lecture on “Achieving Value Proposition fit and Business fit” was given by Mr. P Sathish Kumar, Mechanical Design Engineer, Creative Synergies Group, Bangalore on 17/07/23 for the III & IV Year



ACADEMIC ACHIEVEMENTS

July' 23

Events Organised

WORKSHOP ON 'ACHIEVING "VALUE PROPOSITION FIT" & "BUSINESS FIT"'

ORGANIZED BY:
DEPARTMENT OF MECHANICAL ENGINEERING RATHINAM TECHNICAL CAMPUS, COIMBATORE

ELIGIBILITY:
B.E : Mechanical Engineering
B.E : Agriculture Engineering

17th JULY 2023
VENUE: A-202
TIME: 09:30 am

Resource Person
Mr. P. Sathish Kumar M.E., CAD/CAM,
Mechanical Design Engineer
CRATIVE SYNERGIES GROUP, Bangalore

Co-Coordinator
Mr. H. Mansoor Raja, AP/Mech
RTC, Coimbatore

Organizers
Mr. A. Thirunoorthy, AP/Mech
Ms. G. Kavya, AP/ Mech,
RTC, Coimbatore

Convener
Dr. S. Seenivasan HoD/Mech
RTC, Coimbatore

A Guest Lecture on “Critical Thinking in Leadership: making Sound Decisions in Complex Environments” was given by Mr. P Thangaraj, Quality Controller, Aquasub Engineering, Coimbatore on 19/07/23 for the III & IV Year Mechanical students in association with IIC

DEPARTMENT OF MECHANICAL ENGINEERING ORGANIZED

SEMINAR ON "CRITICAL THINKING IN LEADERSHIP: MAKING SOUND DECISIONS IN COMPLEX ENVIRONMENTS"

RESOURCE PERSON
Mr. P. Thangaraj
Quality Controller,
Aquasub Engineering, Coimbatore

Date : 19.07.2023
Time : 2.00 PM

CONVENOR
Dr. S. Seenivasan
HoD - Mechanical

COORDINATOR
G. Visvasakaran, AP/ Mech
Dr. M. Raja sanka, Prof/ Mech

A Guest Lecture on “Developing Culture of Innovation among Students” was given by Mr. Mr. Sivaram Kumar S, Senior Design Engineer, Jayem Automotives, Coimbatore on 22/07/23 for the III & IV Year Mechanical students in association with IIC

GPS Map Camera

Madukkarai, Tamil Nadu, India
WXMG+5WW, Madukkarai, Coimbatore, Tamil Nadu 641021, India
Lat 10.932875°
Long 76.977342°
21/07/23 02:01 PM GMT +05:30

GPS Map Camera

Madukkarai, Tamil Nadu, India
Rathinam Technical Campus WXMG+5WW, Madukkarai, Coimbatore,
Tamil Nadu 641021, India
Lat 10.932953°
Long 76.9773°
19/07/23 02:20 PM GMT +05:30

IIC AND DEPARTMENT OF MECHANICAL ENGINEERING ORGANIZES A SESSION ON DEVELOPING CULTURE OF INNOVATION AMONG STUDENTS

RESOURCE PERSON
SIVARAM KUMAR S
SENIOR DESIGN ENGINEER
JAYEM AUTOMOTIVES, COIMBATORE

Convener
Dr. S. Seenivasan HOD/MECH

Organisers
Mr. S. Tamil Selvan AP/Mech
Mr. H. Mansoor raja AP/Mech

Coordinator
Mr. H. Mansoor raja AP/Mech

DATE: 22.07.2023
TIME: 1.30PM

www.rathinamcollege.edu.in

INSTITUTION'S INNOVATION COUNCIL
Ministry of Education Initiatives

ACADEMIC ACHIEVEMENTS

A Workshop (Internal Event) on “Technical Quiz (Design) & Brainstorming” was organized on 21/07/23 for the IV Year Mechanical students in association with Mastron Club..



A Workshop (Internal Event) on “Technical Competencies” was organized on 25/07/23 for the IV Year Mechanical students in association with IPE.



August' 23

Workshop / FDPs / Conference

G. Vijayasekaran AP/Mechanical participated a Five Days Faculty Development Programme on “CE3392-Fluid Mechanics and Machinery” organized by JCT College Of Engineering, Coimbatore, during 07/08/23 to 11/08/23

S Tamilselvan AP/Mechanical participated a Five Days Faculty Development Programme on “CE3392-Fluid Mechanics and Machinery” organized by JCT College Of Engineering, Coimbatore, during 07/08/23 to 11/08/23

H Mansoor Raja AP/Mechanical participated a Five Days Faculty Development Programme on “CE3392-Fluid Mechanics and Machinery” organized by JCT College Of Engineering, Coimbatore, during 07/08/23 to 11/08/23

Dr. S Seenivasan ASP/Mechanical participated a seven days International Short term Training Programme on “Environmental Pollution: A threat to life in the air” organized by RAJRISHI GOVT. AUTONOMOUS COLLEGE, ALWAR, during 15/08/23 to 21/08/23

Mr. A Thirumorthy ASP/Mechanical participated a seven days International Short term Training Programme on “Environmental Pollution: A threat to life in the air” organized by RAJRISHI GOVT. AOTONOMOUS COLLEGE, ALWAR, during 15/08/23 to 21/08/23

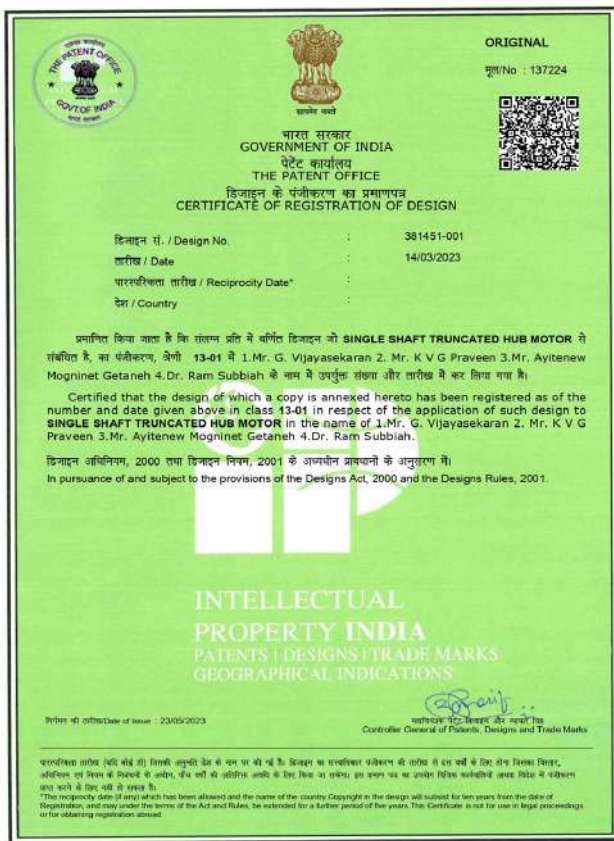
S. Tamilselvan AP/Mechanical participated a seven days International Short term Training Programme on “Environmental Pollution: A threat to life in the air” organized by RAJRISHI GOVT. AOTONOMOUS COLLEGE, ALWAR, during 15/08/23 to 21/08/23

ACADEMIC ACHIEVEMENTS

August' 23

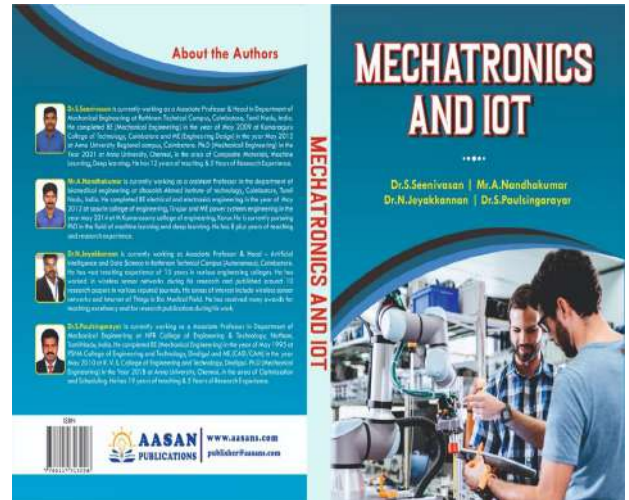
Patent Publication

A Design Patent Published by Mr.G. Vijayasekaran, AP/Mech on “Single Shaft Truncated Hub Motor” vide Design number 38145-001 on 14-03-2023 by The Patent Office, Govt. of India.



Book Publication

A Book Published by Dr. S Seenivasan HoD/ Mechanical on “Mechatronics and IOT” vide ISBN number 978-81-19313-22-8 on August 2023 Published by Aasan Publications.



Events Organised

A Guest Lecture on “Emphasizing the significance of strong values and ethics is crucial for entrepreneurs” delivered by Mr. Karthik rengarajan, Bluestone overseas consultant, Coimbatore was organized on 03/08/23 for the III & IV Year Mechanical students in association with IIC.



ACADEMIC ACHIEVEMENTS

A Guest Lecture on “Mindful Innovators: Fostering Design thinking and Critical Analysis” delivered by Mr. R.Jawahar Prasanth, Design Engineer, Solavia Labs Private Ltd , Coimbatore was organized on 11/08/23 for the III & IV Year Mechanical students in association with IIC.



A Guest Lecture on “Copyright Matters: Empowering Creators, respecting Rights” delivered by Mr. VS Kannan, Proprietor Fluid Power Machines Pvt. Ltd, Coimbatore was organized on 23/08/23 for the III & IV Year Mechanical students in association with IIC



Department of Mechanical Engineering (Mastron Club) organized an event on 15 August 2023 77th Independence Day Celebrations at Government Welfare Primary School, Kalimangalam, Alandurai.



ACADEMIC ACHIEVEMENTS

August' 23

Student Achievement

III Year Mechanical Student J Jeff Corwin participated and won 2nd prize in Puducherry Weight Lifting Championship-2023 Event on 27 August 2023.



MoU Signed

Department of Mechanical Engineering signed an MoU with Mr. VS Kannan, Proprietor Fluid Power Machines Pvt. Limited on 23/08/23 at Inspiration Station.



ACADEMIC ACHIEVEMENTS

September' 23

Workshop / FDPs / Conference

Mrs. G Vijayasekaran, AP/Mechanical participated a Six Days Faculty Development Programme on “Emerging Innovations in Chemistry and Chemical Technology (EICCT_2023)” organized by Arasu Engineering College, Kumbakonam, during 11/09/23 to 16/09/23

Mrs. G Kaviya, AP/Mechanical participated a

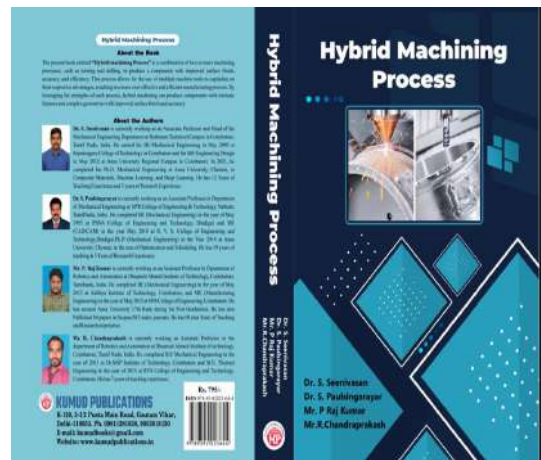


Six Days Faculty Development Programme on “Emerging Innovations in Chemistry and Chemical Technology(EICCT_2023)” organized by Arasu Engineering College, Kumbakonam, during 11/09/23 to 16/09/23

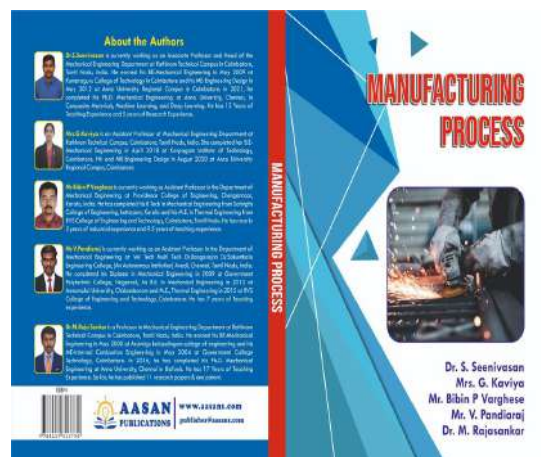


Book Publication

A Book Published by Dr. S Seenivasan HoD / Mechanical on “Hybrid Machining Process” vide ISBN number 978-93-92023-64-4 on September 2023 Published by Kumud Publications



A Book Published by Dr. S Seenivasan, HoD/ Mechanical, Mrs. G Kaviya and Dr. M Rajasankar on “Manufacturing Process” vide ISBN number 978-81-19313-73-0 on September 2023 Published by Aasan Publications



ACADEMIC ACHIEVEMENTS

September' 23

Events Organised

A Guest Lecture on “Idea to Impact: Nurturing Innovation” delivered by Mr. Hari Balakrishnan B, Motivational Speaker, Coimbatore was organized on 05/09/23 for the III & IV Year Mechanical students in association with IIC.



October' 23

Workshop / FDPs / Conference

Dr. M Rajasankar, Prof/Mechanical participated a 12 Weeks Online Course on “Engineering Metrology” (NPTEL_2023)” organized by NPTEL-AICTE during July 2023 - October 2023



A Guest Lecture on “How to become a successful entrepreneur” delivered by Mr. Syed Thasin Rifay, Motivational speaker, Dubai was organized on 22/09/23 for the III & IV Year Mechanical students in association with IIC



ACADEMIC ACHIEVEMENTS

Mr. A Thirumoorthy, ASP/Mechanical participated a 12 Weeks Online Course on “Engineering Metrology” (NPTEL_2023)” organized by NPTEL-AICTE during July 2023 - October 2023



Mr. G Vijayasekaran, AP/Mechanical participated a 12 Weeks Online Course on “Advanced Machining Process” (NPTEL_2023)” organized by NPTEL-AICTE during July 2023 - October 2023.



Faculty Publication

A Design Patent Published by Dr. S Seenivasan, HoD / Mechanical, on “Industrial Robot” IPR Design number 394225-001 in the month of October 2023 Published by The Patent Office, Government of India.

Events Organised

A Workshop organized by Mechanical Department on “Recent Technology in Refrigeration and Air conditioning Systems” on 5-10-2023 and 6-10-2023. Resource person Dr. M Rajasankar Professor/Mechanical, Rathinam Technical Campus.



Sl.	Faculty name	Course Title	Certificate category
1	Dr. M. Rajasankae	Engineering Metrology	Elite
2	Mr. A. Thirumoorthy	Engineering Metrology	Elite + Slver
3	Mr. G. Vijayasekaran	Advanced Machining Process	Elite

ACADEMIC ACHIEVEMENTS

October' 23

Student Achievement

III Year Mechanical Student **A. Ajay** participated and won **Gold Medal** in Anna University Interzonal TAEKWONDO Championship on 21



III Year Mechanical Students G. K. Paranidharan & R. Srikanth participated and won the Champions in Pollachi Premier league Football Tournament. October 2023.



Faculty Achievement

Dr. S. Seenivasan, Asso.Prof, Dean and Head of Mechanical Department got appreciation from Dr. B. Nagaraj, principal for Best Performer in KPI (Key Performance Indicator) for the month of October 2023.

Dr. M Rajasankar, Prof / Mechanical, got appreciation from Dr. B. Nagaraj, principal for achieving Elite certificate of NPTEL online course for the month of October 2023.



Mr. A. Thirumoorthy, Assoc.Prof / Mechanical, got appreciation from Dr. B. Nagaraj, principal for achieving Elite + Silver certificate of NPTEL online course for the month of October 2023.



Mr. S. Tamilselvan, Ass..Prof /Mechanical, got appreciation from Dr. B. Nagaraj, Principal for achieving Elite certificate of NPTEL online course for the month of October 2023.

ACADEMIC ACHIEVEMENTS



Mr. G. Vijayasekaran Ass.Prof /Mechanical, got appreciation from Dr. B. Nagaraj, principal for achieving Elite certificate of NPTEL online course for the month of October 2023.

Mr. G. Vijayasekaran Ass.Prof /Mechanical, got appreciation from Dr. B. Nagaraj, principal for Best Performer in KPI (Key Performance Indicator) for the month of October 2023.



Mrs. G. Kaviya, Ass.Prof /Mechanical, got appreciation from Dr. B. Nagaraj, principal for Best Performer in KPI (Key Performance Indicator) for the month of October 2023.



November' 23

Workshop / FDPs / Conference

Dr. M Rajasankar, Prof / Mechanical Successfully completed a 12 Weeks Faculty Development Programme on “Engineering Metrology” (NPTEL_2023)” organized by NPTEL-AICTE during October 2023.

Mr. A. Thirumoorthy, Assoc. Prof / Mechanical Successfully completed a 12 Weeks Faculty Development Programme on “Engineering Metrology” (NPTEL_2023)” organized by NPTEL-AICTE during October 2023.

Mr. G. Vijayasekaran, Asst. Prof / Mechanical Successfully completed a 12 Weeks Faculty Development Programme on “Advanced Machining Process” (NPTEL_2023)” organized by NPTEL-AICTE during October 2023.

Faculty Publication

A Journal Paper Published by Dr. S Seenivasan, HoD / Mechanical, on “Evaluating Physical and Mechanical Properties of Coco Peat/Nano Clay/Nano Titanium Carbide Nano composite” vide DOI number <https://doi.org/10.1051/e3sconf/202345502004> in the month of November 2023 Published by Nano World Journal Volume 9, Supplement 3, 2023

ACADEMIC ACHIEVEMENTS

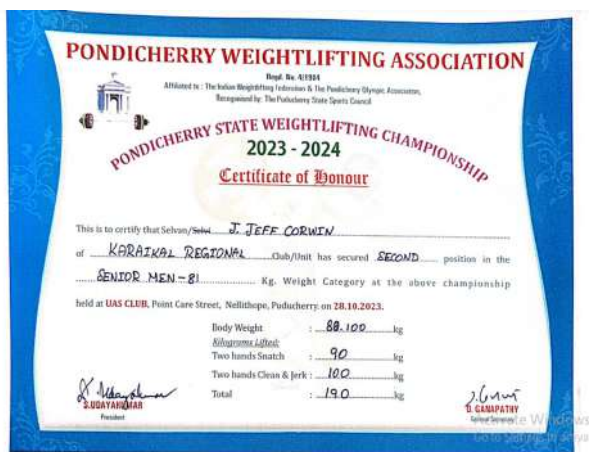
November' 23

Patent Publication

A Patent Published by Dr. S Seenivasan, HoD / Mechanical, on "Influence Of Al Co Cr Cu Fe High Entropy Alloy Particles On Copper Surface Composite Made Through Friction Stir Processing" IPR Design number 202341059327 in the month of November 2023 Published by The Patent Office, Government of India.

Student Achievement

III Year Mechanical Student J Jeff corwin participated in Weight Lifting Competition organized by Puducherry Weight Lifting Association on 04-11-2023 and won Gold medal in Junior 89 Kg category and Silver Medal in Senior 89 Kg category.



December' 23

Faculty Publication

A Journal Paper Published by Dr. S Seenivasan, HoD / Mechanical, on "Evaluating the influence of coir fibres on solar still efficiency and economic viability" vide DOI number <https://doi.org/10.1051/e3sconf/202345502004> in the month of December 2023 Published by E3S Web of Conferences ICGEST 2023, Volume 455 (2023).

Patent Publication

A Design Patent Published by Dr. S Seenivasan, HoD / Mechanical, on "Wireless Laptop Charger cum Cooling pad vide IPR Design number 395484-001 in the month of December 2023 Published by the Patent Office, Government of India.



News Letter Cover Page

NON TECHNICAL ACTIVITIES

Honouring the Toppers - Internal Examinations



Campus Parenting

NON TECHNICAL ACTIVITIES

Beard O Band Club



NON TECHNICAL ACTIVITIES

RATHINOM TECHNICAL CAMPUS (AUTONOMOUS)

NAAC A+ CCPE Score - 3.48

NBA NATIONAL BOARD OF ACCREDITATION

Beard O' BAND

DEPARTMENT OF MECHANICAL ENGINEERING
JOINTLY WITH MASTRON CLUB

MR. BEARD
THE CELEBRATION
OF NO SHAVE

12.10.2023
TIME: 3.00 PM TO 4.30 PM
VENUE: C 202

CONVENER
Dr. S. Seenivasan
HoD - Mechanical

COORDINATOR
Mr. G. Vijayasekaran
Mr. S. Tamilselvan
Mrs. G. Kaviya

www.rathinamtechnicalcampus.com



Ramp walk conducted and finalised the 1st – 3 prizes based on appearance and manliness

FACULTY REFRESHMENT PARTY



STUDENTS'S BIRTHDAY WISHES

BIRTHDAY WISHES *for* Engineer



NON TECHNICAL ACTIVITIES

The poster features the RATHINAM logo at the top left, followed by 'RATHINAM TECHNICAL CAMPUS (AUTONOMOUS)'. To the right are accreditation logos for NAAC (A+ CGPA Score - 3.45) and NBA (National Board of Accreditation for CSE, IT & ECE Departments). The main title 'Team Building & Stress Relief Activities' is prominently displayed in a colorful, stylized font. Below the title is a QR code and the text 'For Registration'. At the bottom left, it says 'Date: 11.10.2023 @ 3 PM'. A word cloud on the right side of the poster includes terms like 'MEDITATION', 'HEALTHY', 'FITNESS', 'RELAXATION', 'SPIRITUALITY', 'WELLNESS', 'ENERGY', 'EXERCISE', 'BODY', 'RELAXATION', 'ENERGY', 'HEALTHY', 'FITNESS', 'RELAXATION', 'SPIRITUALITY', 'WELLNESS', 'ENERGY', 'EXERCISE', 'BODY', 'RELAXATION', 'ENERGY'.



Internal Event on “Team building & Stress Relief Activities” was organized on 11/10/23 for our registered college faculty as a part of administrative training programme.

FESTIVAL GALLERY



RATHINOM TECHNICAL CAMPUS (AUTONOMOUS) NAAC CCRA Score - 3.42 NEA

Department of
AGRI, MECH, BIOTECH, BME, ECE

Organizes
**ENGINEER'S
GOLU**

18 OCTOBER | DAY 02

04:00 PM

@rathinamcollege www.rathinamtechnicalcampus.com

The Department of Mechanical Engineering successfully organized Engineer's Golu along with neighbor department Agri, Biotech, BME & ECE. Our beloved Principal, Vice Principal, Director are given guest appearance and made this event as a great divine function.

Distributed Pongal, Sundal and Pori to faculties and students.

FESTIVAL GALLERY



The Department of Mechanical Engineering participated and won 3rd place in cook with colleague during Diwali celebration along with neighbor department Agri, Biotech, Our beloved Principal, Vice Principal, Director and Food Reviewers from Rathinam Group Institution are given guest appearance and made this event as a great divine function.



MUSIC & FESTIVAL GALLERY



Department of Mechanical Engineering
Rathinam Technical Campus,
Pollachi Main Road, Eachanari, Coimbatore - 641021