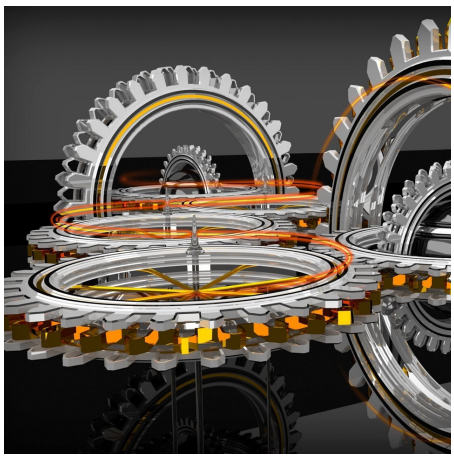
MECHASM

STELLA MARY'S
COLLEGE OF ENGINEERING

DEPARTMENTAL OF MECHANICAL ENGINEERING

MAGAZINE 2018 - 2019



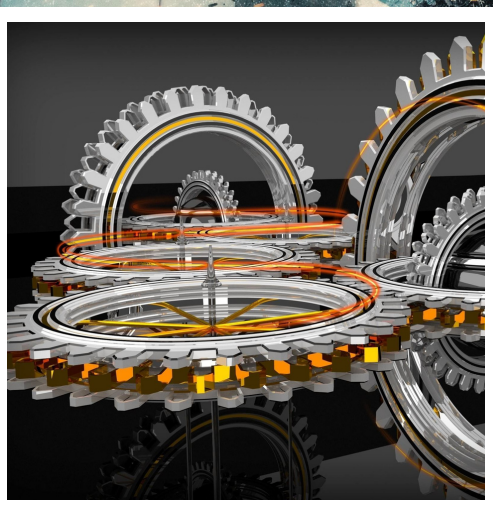
ABOUT

DEPARTMENT

The Department of Mechanical Engineering has been in existence since 2013 with the intake of 60 students. The department has excellent infrastructure by keeping on par with the latest trends. The Department is grown into a full-fledged one with well-equipped lab facilities, Infrastructure and faculty members of various specializations. The faculty members are not only committed to the teaching profession but also involve themselves in research and constantly, publish papers in conference proceedings, International and National Journals with respect to their field of specialization. The department has been producing excellent results with distinction in the university examinations consistently.

The Department provides high quality education along with discipline. The faculty members make it possible to give individual attention to the learners and to motivate them to achieve their professional goals. The curriculum structure of the department is designed to meet the present-day requirement of Industries and corporate sectors. The interaction between the staff and students is excellent and all the laboratories are well equipped as per the requirements of the curriculum.

The department also organizes frequent industrial visits, subject related seminars, guest lectures, workshops, symposia etc. to enhance the depth of the subject. Department of Mechanical Engineering offers a pavement for students to do innovative project work, by providing a separate lab, known as Design and Fabrication Laboratory". The Department is headed by Mr. S. A. Edward Dhas and architected with 11 faculty members.



ABOUT

MECHASM

“MECHASM” The student association of Department of Mechanical Engineering has been formed during the academic year 2015-2016. The Association is named after the abbreviation of "MECHANICAL Association of Stella Mary's College of Engineering". The association is solely governed by the students; One president, Secretary from final year, vice president and treasurer from pre-final year, Joint Secretary from second year and steering committee members for various portfolios was formed in every academic year. Various activities like Workshop, Guest Lecture, Student Competitions, and Seminars are conducted every academic year by MECHASM. Especially Department symposium are completely planned, organized and conducted by the association.

INSTITUTION VISION AND MISSION

Vision

To emerge as a premiere institution, acknowledged as a center for excellence imparting technical education, creating technocrats who can address the needs of the society through exploration and experimentation and uplift mankind.

Mission

To provide an education that transforms students, through rigorous course – work and by providing an understanding of the needs of the society and the industry.

DEPARTMENT VISION AND MISSION

Vision

To impart nationally and internationally recognized education on Mechanical Engineering, leading to well qualified engineers who are innovative contributors to the profession and successful in advanced studies and research.

Mission

- To provide an international class of education enabling the students to have the ability to design, plan, engineer, administer and manage the latest technologies in the field of Mechanical Engineering.
- To train students to face the future challenges of industries and society.
- To equip the students to take leading positions in industry, academia, and PSUs both in India and abroad.

PROGRAM OUTCOMES (POS)

PO1/Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2/Problem Analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO3/Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4/Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions for complex problems

PO5/Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6/The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7/Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

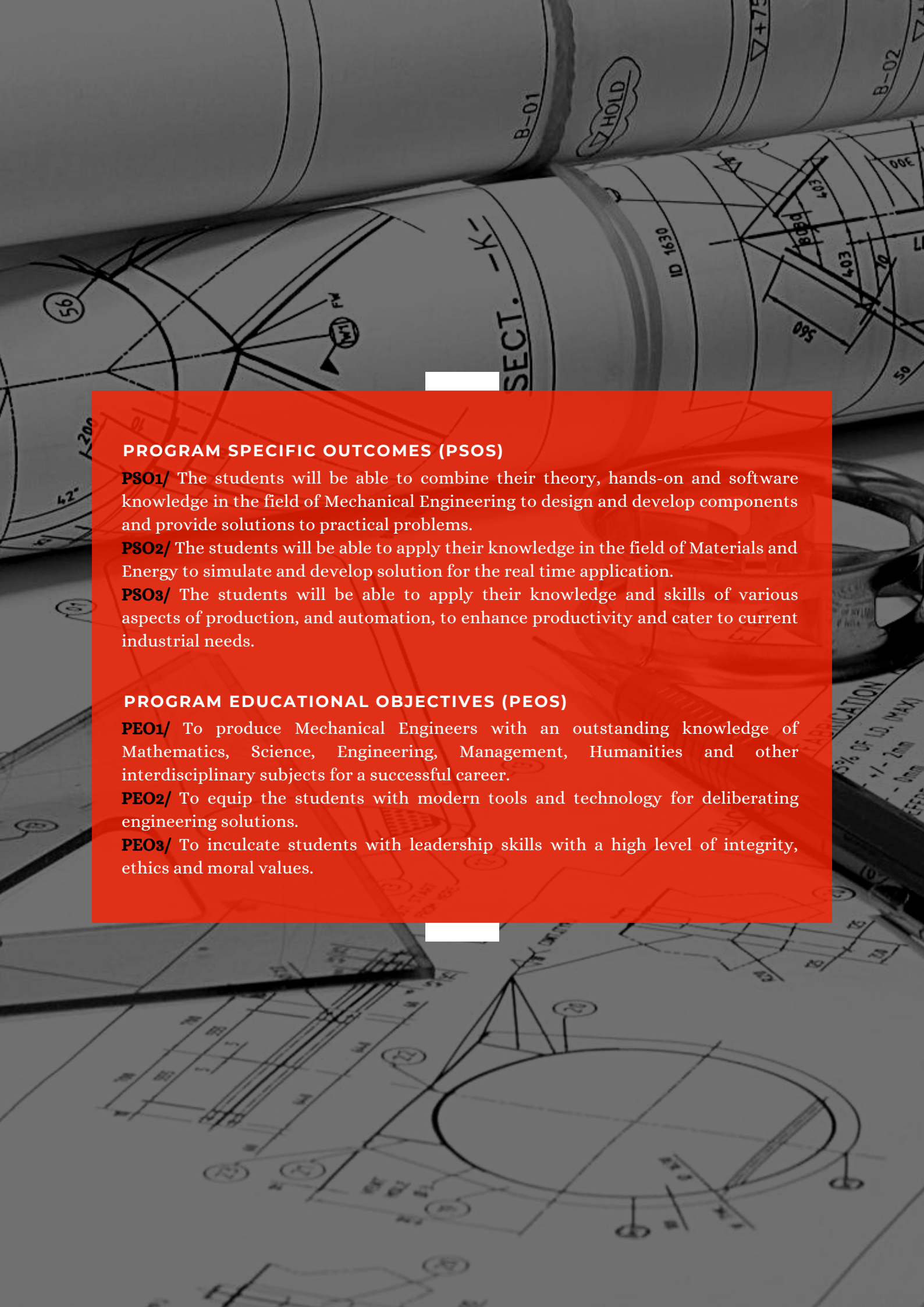
PO8/Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9/Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10/Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11/Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12/Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.



PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO1/ The students will be able to combine their theory, hands-on and software knowledge in the field of Mechanical Engineering to design and develop components and provide solutions to practical problems.

PSO2/ The students will be able to apply their knowledge in the field of Materials and Energy to simulate and develop solution for the real time application.

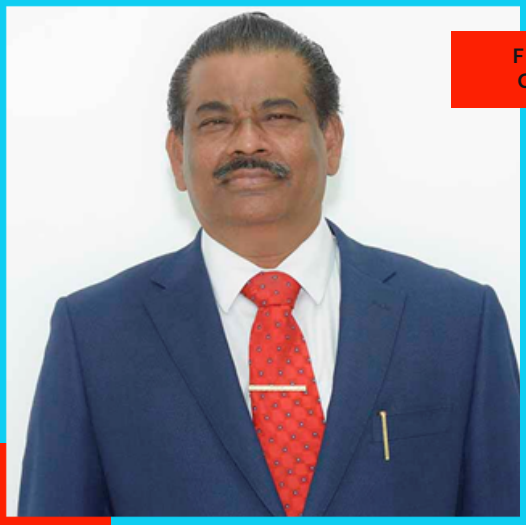
PSO3/ The students will be able to apply their knowledge and skills of various aspects of production, and automation, to enhance productivity and cater to current industrial needs.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1/ To produce Mechanical Engineers with an outstanding knowledge of Mathematics, Science, Engineering, Management, Humanities and other interdisciplinary subjects for a successful career.

PEO2/ To equip the students with modern tools and technology for deliberating engineering solutions.

PEO3/ To inculcate students with leadership skills with a high level of integrity, ethics and moral values.



FOUNDER & CHAIRMAN

DR. NAZERATH CHARLES

CHAIRMAN MESSAGE

I am delighted to present another issue of our annual day magazine MECHASM 2018-2019. In a country where education is held in very high esteem and the teacher is equated to God, we at Stella Mary's College of Engineering have dedicated ourselves to impart education and develop the student to be a responsible engineer and individual.

Students of Stella Mary's are groomed carefully and the virtues of hard work, discipline and ethical practices in profession are imbibed in them constantly during their campus life.

Campus life here stresses the importance of extra academic activities apart from academic learning, leading them to many new avenues. All these go a long way in making our student a thoroughbred professional, eminently suited to contribute in his chosen career with an ever-open mind for new thoughts and ideas in industrial and technological advancements.

We are hence confident that our students equipped with such capabilities will emerge as valuable contributory assets to the development of the organizations they serve as well as to the nation.

CHIEF EXECUTIVE OFFICER

MR. CAROL JUDESON

CEO'S DESK

I am pleased to learn that the department of Mechanical Engineering will publish the current academic year's issue of their technical magazine "MECHASM" (2018-2019). This is a useful technical material and secondary skill development tool for students. I wish the “Mechanical Association of Stella Mary's” every success in all of their endeavours. I also commend the team's coordination and efforts in bringing this issue to light. I wish them all the best.

DIRECTOR

MR.
P. RENGITHAM

DIRECTOR'S DESK

Only because good things are always scarce do they remain good. I'm delighted to contribute to this wonderful publication in recognition of the team's commendable efforts in launching it successfully. It is commendable that efforts have been made to create innovative content. Content about various opportunities in the corporate world, as well as alerts about various student level competitions, will be included in the future. Wishing you all a successful year.

PRINCIPAL

DR. R. SURESH PREMIL KUMAR

PRINCIPAL MESSAGE

Oral and written expressions of inherent and nurtured qualities are both possible. Human communications are always conducted through these channels, but they may occasionally transcend these verbal or sensory channels and occur in an intuitive and unspoken manner. The kind of world we live in necessitates a focus on these expressions, whether through speech or written material.

The desire to provide a platform for these expressions for engineering college students is a very natural need. The launch of an e-magazine on the institute's website is a positive step in the right direction.

I would like to extend my warmest greetings to all participants, authors, report writers, faculty staff, and students involved in this endeavour. I also urge everyone to prepare for the upcoming new dimensions of the E-World by doing extensive reading on the internet and encouraging self-learning. I also express my sincere hope that the wonderful, beautiful, and creative expressions of some people will promote better human values, culture, and affection among all.

HOD / MECH

MR. S.A. EDWARD DHAS

HOD MESSAGE

I am pleased to know that our students succeeded in bringing this magazine for this academic year 2018-19. “MECHASM”, the departmental magazine has the prime objective of providing aspiring engineers a wide platform to showcase their technical knowledge and to pen down innovative ideas. This great effort of the students of MECHASM shall definitely act as a milestone in honing their curricular and co-curricular skills.

This magazine is intended to bring out the hidden literary talents in the students and teachers to inculcate strong technical skills among them. I congratulate and thank all the students and faculty coordinators who have made untiring efforts to bring out this magazine. I wish the students success in this adventure and hope that the students will contribute original, innovative, thought provoking and motivating articles and raise their bar of commitment and integrity. I wish them all the very best for releasing more such magazines in the future.

ASSISTANT PROFESSOR

MR. P. VIJAYAN

EDITOR'S PAGE

I feel honored to be a part of the issue of magazine of the Department of Mechanical Engineering. Students have shown tremendous potential not only in academics but also in co-curricular and extra-curricular activities. For the overall personality development of students, apart from academics, participation in co-curricular and extra-curricular activities is the need of the hour. Students are encouraged to participate in inter-college and intra-college competitions.

All these activities help them in getting jobs in reputed companies. It also helps them to get admitted in institutions of high repute for higher studies in India and abroad. I commend all faculties, students and staff members for their hard work in publishing the "Mechasm", which represents the insights of the Mechanical Engineering Department. I wish everyone loads of success and a bright future.

MOVE FORWARD. GOOD THINGS ARE UP AHEAD.

– Dr. Nazerath Charles

ARTICLE 1

INTERNET OF THINGS (IOT)

The Internet of Things (IoT) is a system of interrelated computing devices or machines which have been provided with unique identifiers (UIDs) and have the ability to transfer data over a network without needing human-to-human or human-to-computer interaction.

A 'thing' in the IoT can be a person, animal or object, for example; a human with a heart monitor implant, an animal with a biochip transponder, or even an automobile which has built in sensors to alert the driver of any changes to the vehicle, such as low tyre pressure. These 'things' become part of the IoT when they have been assigned an IP address that can transfer data over a network.

The Internet of Things (IoT) describes the network of physical objects — "things"— that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet. These devices range from ordinary household objects to sophisticated industrial tools.

IoT for short, provides a unique opportunity for designers to build more functionality between things such as:

- Heart monitors
- Automotive sensors
- Thermostats
- Household appliances
- Lighting
- Automobiles
- Utilities
- Manufacturing equipment

or anything with an Internet Protocol (IP) address that can transfer data over a network.

M BALA WILLIAMS
Final year/Mechanical

ARTICLE 2

AQUA DRONE REMOTE CONTROLLED UNMANNED RIVER CLEANING BOT

Lakes are an important feature of the Earth's landscape. They are extremely valuable ecosystems and provide a range of goods and services to humankind. They are not only a significant source of precious water, but extend valuable habitats to plants and animals, moderate the hydrological extreme events (drought and floods), influence microclimate, enhance the aesthetic beauty of the landscape and offer many recreational opportunities. Lakes have a very special significance in India.

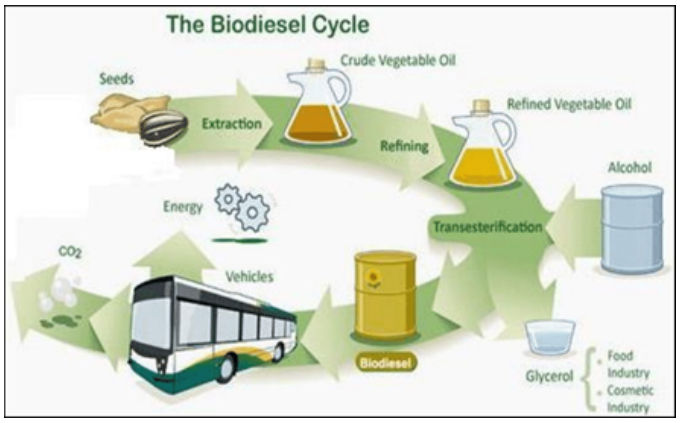
Pollution: For the last two decades, there has been an explosive increase in the urban population without corresponding expansion of civic facilities such as adequate infrastructure for the disposal of waste. Hence, as more and more people are migrating to cities the urban civic services are becoming less adequate. As a result, almost all urban water bodies in India are suffering because of pollution and are used for disposing untreated local sewage and solid waste, and in many cases the water bodies have been ultimately turned into landfills.

The product right now is remote controlled but through automation techniques such as sensor technology, it can be made self-automated. The product can be used for many other purposes in the future. It can be modified to throw life jackets during rescue operations. This can be achieved by fixing appropriate propellers with higher motor rpms. We can also replace battery with solar panels and make it completely work on solar energy.

D ANISH
Final year/Mechanical

ARTICLE 3

BIODIESEL



Biodiesel refers to a vegetable oil — or animal fat-based diesel fuel consisting of long-chain alkyl (methyl, ethyl, or propyl) esters. Biodiesel can be used as a pure fuel or blended with petroleum in any percentage. Much of the world uses a system known as the "b" factor to state the amount of biodiesel in any fuel mix:

a) 100% biodiesel is referred to as B100
b) 20% biodiesel, 80% Petro diesel is labeled B20
c) 9'% biodiesel, 95'% Petro diesel is labeled Bo
d) 2'% biodiesel, 98'% Petro diesel is labeled B2

Blends of 20% biodiesel and lower can be used in diesel equipment with no, or only minor modifications

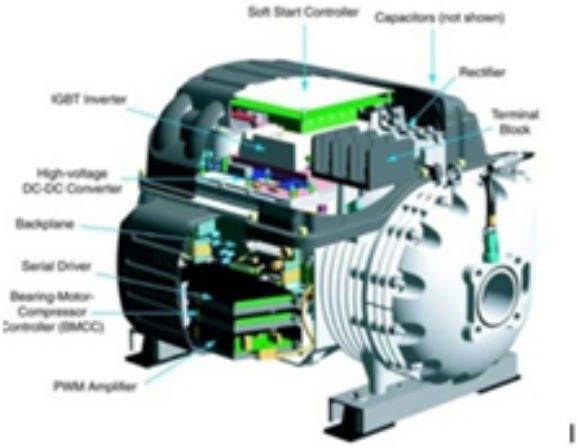
Benefits of Biodiesel

a) Produced from Renewable Resources.
b) b) Can be Used in existing Diesel Engines.
c) c) Grown, Produced and Distributed Locally.
d) d) Biodegradable and Non-Toxic.

M ARUN VIBEES
3rd year/Mechanical

ARTICLE 4

FRICTIONLESS COMPRESSOR TECHNOLOGY



Traditional centrifugal compressors use roller bearings and hydrodynamic bearings, both of which consume power and require oil and lubrication system. This can be overcome by the introduction of new compressor technology called frictionless compressor technology.

The frictionless compressor technology is compressor with the application of magnetic bearings and permanent magnet synchronous motor. In frictionless compressor instead of roller bearings and hydrodynamic bearings, magnetic bearings are used. Magnetic bearings consume less power and there is no need for oil and lubrication systems. Permanent magnet brushless synchronous motor has permanent magnet instead of copper windings.

After 10 years of development, magnetic bearing compressors offer economic, energy, and environmental benefits. Chief among them is increased energy efficiency, the elimination of oil and oil management and considerably less weight, noise, and vibration. This is initial mid-range package offers centrifugal compression efficiencies previously reserved for large tonnage systems only.

This compressor has high reliability, efficiency, less maintenance cost and staff. With the help of digital control system, the controlling and monitoring of work is very easy. The frictionless compressor technology makes new revolutions in the field of air conditioning, refrigeration etc. Frictionless Compressor Technology is one of the fast-growing Technology in the engineering field.

HOW THEY DIFFER?

Magnetic bearings
No friction. This can improve energy efficiency by
2-4'%. Run at high speeds (up to 48,000 RPM) and give
Sood speed control. Magnetic-bearing compressors offer
economic, energy and environmental benefits.

OIL FREE DESIGN

The biggest benefit to eliminating oil from the system is
that it eliminates the need for a lubrication system. It
reduces the maintenance cost of compressor by 50 percent.

ARTICLE 4

VFD CONTROL

Variable Frequency Drive provides good speed control, allowing the system to run up to 48,000 RPM.

SMALLER AND LIGHTER

Using permanent magnets will reduce the weight and size. They are one-fifth of the weight and half the size of an equivalent conventional compressor.

ADVANTAGES

- Easier and quicker installation
- Sound level less than 70 decibel (dB).

DISADVANTAGE

- Price is 50-70% more than normal Compressor.
- Power of permanent magnet will decrease.

CONCLUSION

Magnetic-bearing compressors offer economic, energy, and environmental benefits. Chief among them are increased energy efficiency, the elimination of oil and oil management, and considerably less weight, noise, and vibration.

J JOHN JERLN
3rd year/Mechanical

ARTICLE 5

A TO Z IN COMPUTER ABBREVIATIONS

A -Arithmetic and Logic Unit-ALU
B -Beginners All Purpose Symbolic Instruction Code-BASIC
C -Common Business Oriented Language-COBAL
D -Direct Memory Access-DMA
E -Electronic Numerical Integer Calculator-ENIAC
F -Formula Transaction-FORTRAN
G -Gray Code-GC
H -High Level Data Link Control-HDLC
I -International Field Effect Transistor-IFET
J -Junction Field Effect Transistor-JFET
K -Knowledge Information Processing System-KIPS
L -Local Area Network-LAN
M -Microprocessor Unit-MPU
N -Negative Acknowledge-NAK
O -Optical Read Only Memory-OROM
P -Printed Circuit Board-PCB
Q -Quantization Error-QE
R -Read Only Memory-ROM
S -SynchroNet's Data Link Control-SDLC
T -Transistor Transistor Logic-TTC
U -Universal Automatic Computer-UAC
V -Visual Display Unit-VDU
W -While Wend Loop-WWL
X -Exclusive or Memory with Accumulator-XRA
Y -Yellow Ray Display-YRT
Z -Zero Address Institution-ZAI

S JENISH RAHUL
1st Year/ Mechanicl

ARTICLE 6

OLYMPICS

The five interlocking colour rings of the Olympic Flag represent the continents of Asia , Africa , Europe , America and Australia.

YEAR	VENUE
1896	Athens, Greece
1900	Paris, France
1904	St Louis, USA
1908	London, UK
1912	Stockholm, Sweden
1920	Antwerp, Belgium
1924	Paris, France
1928	Amsterdam, Holland
1932	Los Angeles, USA
1936	Berlin, Germany
1948	London, UK
1952	Helsinki, Finland
1956	Melbourne, Australia
1960	Rome, Italy
1964	Tokyo, Japan
1968	Mexico City, Mexico
1972	Munich, Germany
1976	Montreal, Canada
1980	Moscow, USSR
1984	Los Angeles, USA
1988	Seoul, South Korea
1992	Barcelona, Spain
1996	Atlanta, USA
2000	Sydney, Australia
2004	Athens, Greece
2008	Beijing, China
2012	London, UK
2016	Rio De Janeiro, Brazil
2020	Tokyo, Japan
2024	Parris, France

S ABISHEK
1st Year/ Mechanicl

ARTICLE 7

SEVEN WONDERS OF ASIA

1.Ha Long Bay area	Vietnam
2. Cambodia Wat	Angkor
3. The Mouth of Hell	Turkmenistan
4. Desert forts of Rajasthan	India
5. Luang Prabang	Laos
6. The Himalayas	
7. The Kingdom of Bhutan	

SEVEN WONDERS OF INDIA

1.Gomateshwara	Parna taka
2.Harmandir sahib	Punjab
3.Taj mahal	Agra
4.Hampi	Karnataka
5.Konark sun temple	Orissa
6.Nalanda	Bihar
7.Khajuraho	Madhya Pradesh

SEVEN WONDERS OF INDIA

- Madurai Meenakshi Temple
- Brihadisvara Temple Tanjore
- Rameswaram Temple
- Rock Fort Temple Trichy
- Mahabalipuram Sculptures
- The Senate House Chennai
- Kanadukathan Chettinad Palace

GODFREY MOHAN
2nd Year/ Mechanical

Ch

ARTICLE 8

THE SWEET OF FRIENDS

The sweet of friends , can change the gale into snow drizzle
When you want to rain
The sweet of friends, can change the small pin into big ladder
When you want to climb
The sweet of friends , can change the summer into spring
When you want to walk
The sweet of friends , can change the oasis into blossoms
When you want to stay
The sweet of friends, can change the sound of cannon into
The sound of humming bird when you want to hear.....

S K SANTHIYA
2nd Year/ Mechanical

1. EVENTS ORGANIZED

Mr. M. Sajeev	***Manager, CAD Centre, Nagercoil***	***13/07/2018***	***Seminar on Automotive Design***
Mr. Raffic	***Chief Training Officer, Sunrise Academy, Nagercoil***	***20/08/2018***	***Technical Review on Mechanical Industries.***
Mr. R. S. Akshay	***Engineer-Business Support, CADD Centre, Thrissur.***	***28/09/2018***	***Seminar on Job Oriented Technical Discussion and Training.***

2. STUDENT ACHIEVEMENT

SL. NO.	NAME OF THE STUDENT	ORGANISED / CONDUCTEDBY	DATE	ACHIEVEMENT
1	J John Benjamin R Reslin	Technical Symposium Mechanize 18 Bethlehem Institute of Engineering	28-09-2018	Second Prize in Water Rocketry
2	A Edwin Jacob	Technical Symposium Mechanize 18 Bethlehem Institute of Engineering	28-09-2018	Second prize in Best Engineer

STUDENTS PARTICIPATION

SL. NO.	NAME	EVENT TITLE	HELD AT	DATE
1	M. Manoj	Advances in IC Engines and Robotics	Vins Christian College of Engineering	20.09.2018
2	A. R. Revanth Malto	Advances in IC Engines and Robotics	Vins Christian College of Engineering	20.09.2018
3	M. Aravith Raj	Advances in IC Engines and Robotics	Vins Christian College of Engineering	20.09.2018
4	M. Anto Jerin	Advances in IC Engines and Robotics	Vins Christian College of Engineering	20.09.2018
5	K. Udhayan	Advances in IC Engines and Robotics	Vins Christian College of Engineering	20.09.2018
6	E. Jefrin	Advances in IC Engines and Robotics	Vins Christian College of Engineering	20.09.2018
7	M. Jesus Wedland	Advances in IC Engines and Robotics	Vins Christian College of Engineering	20.09.2018
8	M. Danial	Advances in IC Engines and Robotics	Vins Christian College of Engineering	20.09.2018

SPORTS ACHIEVEMENT

S. Karthikeyan	Ball Badminton	Zonal Tournament- Stella Mary's College of Engineering	14.09.2018 to 15.09.2018	WINNER
F Akash	Ball Badminton	Zonal Tournament- Stella Mary's College of Engineering	14.09.2018 to 15.09.2018	WINNER
S Udaya Guru	Table Tennis	Zonal Tournament- Stella Mary's College of Engineering	14.09.2018 to 15.09.2018	WINNER
P Pavithran	Athletics	Zonal Tournament- Stella Mary's College of Engineering	15.10.2018 to 16.10.2018	THIRD POSITION
J. Jeshwin Arul	Shuttle Badminton	Tamil Nadu Rural Games – Gnanodaya International School (CBSC)	31.08.2018 to 02.09.2018	WINNER

3.STUDENT ACADEMIC TOPPERS

SL. NO.	NAME OF THE TOPPER	Year	SEMESTER	CGPA
1	C. L. Dinesh	FINAL	VII	7.699
2	J. John Jerlin	THIRD	V	8.278
3	G. Gogul	SECOND	III	8.170

4.FACULTY ACTIVITIES

SL. NO.	NAME OF THE FACULTY	PROGRAMME	ORGANISED BY	DURATION
1	Dr. M. Siva Prakash	FDP on "CAE"	Stella Mary's College Of Engineering	2/6/2018 [1day]
2	Dr. F. Micheal Raj	FDP on "CAE"	Stella Mary's College Of Engineering	2/6/2018 [1day]
		FDP on "STRENGTH OF MATERIALS"	University College of Engineering Nagercoil	26/11/2018 to 9/12/2018 [14days]
3	Mr. S. R. Rajkumar	FDP on "CAE"	Stella Mary's College Of Engineering	2/6/2018 [1day]
4	Mr. S. Ajithkumar	FDP on "DYNAMICS OF MACHINES"	Bethlehem Institute of Engineering, Karungal	12/6/2018 to 18/6/2018 [7days]
5	Mr. C. Dhayananth Jegan	FDP on "STRENGTH OF MATERIALS"	University College Of Engineering Nagercoil	26/11/2018 to 9/12/2018 [14days]
		FDP on "CAE"	Stella Mary's College Of Engineering	2/6/2018 [1day]
		FDP on "DYNAMICS OF MACHINES"	Bethlahem Institute Of Engineering, Karungal	12/6/2018 to 18/6/2018 [7days]

6	Mr. H. Mahesh	FDP on "STRENGTH OF MATERIALS"	University College Of Engineering Nagercoil	26/11/2018 to 9/12/2018 [14days]
7	Mr. S. A. Edward Dhas	FDP on "STRENGTH OF MATERIALS"	University College Of Engineering Nagercoil	26/11/2018 to 9/12/2018 [14days]
8	Mr. D. Dinesh Kumar	FDP on "DYNAMICS OF MACHINES"	Bethlehem Institute Of Engineering, Karungal	12/6/2018 to 18/6/2018 [7days]
9	Mr. F. Gnana Prakash	FDP on "DYNAMICS OF MACHINES"	Bethlehem Institute of Engineering, Karungal	12/6/2018 to 18/6/2018 [7days]
10	Mr. Aswin Inbaraj Jaison	FDP on "DYNAMICS OF MACHINES"	Bethlehem Institute of Engineering, Karungal	12/6/2018 to 18/6/2018 [7days]
11	Dr. R. Subash Chandra Bose	FDP on "STRENGTH OF MATERIALS"	University College Of Engineering Nagercoil	26/11/2018 to 9/12/2018 [14days]

5.FACULTY ACHIEVEMENTS

SL. NO.	AUTHORS	PUBLICATION DETAILS	JOURNAL	ISBN/ISSN NUMBER	IMPACT FACTOR
1	Dr. M. Siva Prakash	Machining and tribology characteristic of LM20/GR/Alumina hybrid metal matrix composite.	International Journal of printing packing and allied sciences	-	0.762
2	Dr. F. Michael Raj	"Mechanical Characterization of Discarded Monofilament Fishnet/Glass Fiber and Polyester Hybrid Composites", 44(2): 402-409	Indian Ecological Society, Indian Journal of Ecology	03045250	0.13
3	Mr. S. R. Rajkumar	Experimental Comparison of Yield of Bio oil in Fixed Bed Pyrolyzer	International Journal of Trend in Scientific Research and Development (IJTSRD) ISSN No: 2456 - 6470 Volume II Issue 2	2456-6470	2.118

6.AWARDS BY COLLEGE

BEST TEACHER: Mr. C. Dhayananth Jegan (98% in GE8152-Engineering Graphics)
BEST RESEARCHER: Mr. S. R. Rajkumar
BEST OUTGOING STUDENT: C L Dinesh

2018-2019 BATCH

OUT GOING STUDENTS

MECHONS

CLUB ACTIVITIES

BLOOD DONATION CAMP

Date of Programme : 17/10/2018

Time of Programme : 10.00 AM

No. of Days : 1/2 DAY

Venue : Exam Hall

Session : FN

A blood donation camp was organized by STELLA MARY'S COLLEGE OF ENGINEERING, ARUTHENGANVILAI, AZHIKAL, on 17th October 2018. A team of 11 doctors and nurses of Blood Bank, Kanyakumari Medical College, Asaripallam, Nagercoil, came for collection of blood. The event started with 'Tamil Thai Valthu' by Volunteers of NSS and YRC, welcome Address followed by Dr. Suresh Premil Kumar (Principal, Stella Mary's college of Engineering). Dr. Caroline Geetha (Blood Bank Medical Officer, Kanyakumari Medical College) enlightened the students about the importance of donating blood.

CLUB ACTIVITIES

NATIONAL SERVICE SCHEME

Date of Programme : 12/10/2018

Time of Programme : 9.30 AM

No. of Days : ½ Day

Venue : COLLEGE

Session : FN

A dengue awareness rally was organized by STELLA MARY'S COLLEGE OF ENGINEERING, ARUTHENGANVILAI, AZHIKAL, on 12th October 2018. Mr. Thiruselvam (Public Health Inspector, Public Health Department) came for rally. The event started with 'Tamil Thai Valthu' by Volunteers of NSS and YRC, welcome Address followed by Dr. Suresh Premil Kumar (Principal, Stella Mary's college of Engineering)

2018-2019 BATCH

DEPARTMENT OF MECHANICAL ENGINEERING

MECHONS

2018-2019 BATCH

MINI PROJECTS OF MECHANICAL DEPARTMENT

1. Tilting fixture

2. Four way saw cutter

3. Solar powered wood cutter

4. Power operated lifting table

MECHONS

2018-2019 BATCH

MINI PROJECTS OF MECHANICAL DEPARTMENT

5. Solar power drilling machine

MECHONS

2018-2019 BATCH

DURING INDUSTRIAL VISIT

MECHONS

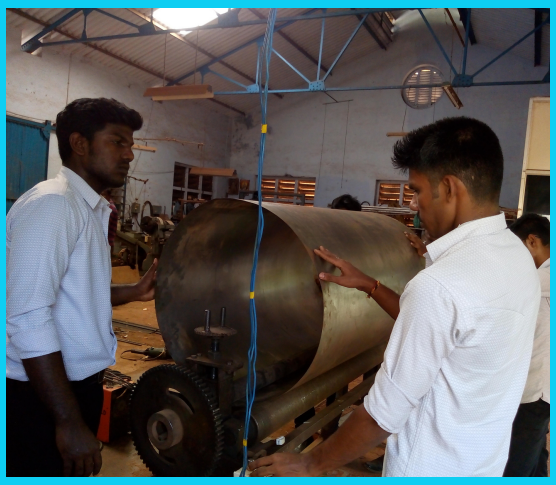
2018-2019 BATCH

WORKSHOP ON FUSSION 360

MECHONS

2018-2019 BATCH

PROJECTS DONE BY STUDENTS



MECHONS

EDITORIAL BOARD

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Faculty Editor	Mr. P. Vijayan
Faculty Coordinators	Mr. S.A. Edward Dhas Dr. F. Michael Raj

INSTITUTION VISION AND MISSION

Vision

To emerge as a premiere institution, acknowledged as a centre for excellence imparting technical education, creating technocrats who can address the needs of the society through exploration and experimentation and uplift mankind.

Mission

To provide an education that transforms students, through rigorous course – work and by providing an understanding of the needs of the society and the industry.

DEPARTMENT VISION AND MISSION

Vision

To impart nationally and internationally recognized education on Mechanical Engineering, leading to well qualified engineers who are innovative contributors to the profession and successful in advanced studies and research.

Mission

To provide an international class of education enabling the students to have the ability to design, plan, engineer, administer and manage the latest technologies in the field of Mechanical Engineering.

To train students to face the future challenges of industries and society.

To equip the students to take leading positions in industry, academia, and PUS both in India and abroad.