



FRANCIS XAVIERTM
ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION

Accredited BY NBA | AICTE Sponsored Margdarshan Mentor Institution

DST-FIST Supported Institution | ISO 9001:2015 Certified

Recognized under Section 2(f) & 12(B) of the UGC Act, 1950



DEPARTMENT OF MECHANICAL ENGINEERING

MONTHLY NEWS – JUNE 2024

ABOUT DEPARTMENT OF MECHANICAL ENGINEERING

The department offers UG program in B.E Mechanical engineering from the year 2005. The department started a PG program M.E Industrial Safety Engineering from this academic year 2018- 2019. This course has wide range of job opportunity in the Industrial and Academic sector of India as well as abroad. The Department aims at providing the students with a perfect blend of intellectual and practical experiences with the support state-of-the-art laboratories and well-defined academic structure. The UG program is accredited by National Board of Accreditation (NBA). The special feature of the Department has established three applied laboratories, in addition to the regular labs to support students to master skills to make each one industry-ready, with a solid grounding in the principles and practice of Mechanical Engineering. We also have a strong academy for training students to appear for GATE exam.

VISION OF THE DEPARTMENT

To produce competent Mechanical Engineers of excellent technical and managerial skills with profound morality for global, national and confront societal development.

MISSION OF THE DEPARTMENT

1. To provide quality education in Mechanical Engineering with an interdisciplinary approach, encouraging innovation, research, and Entrepreneurship through world-class infrastructure and proficient teachers.
2. To make the department self-reliant through multiple programs with excellent curricula, best practices, and industry exposure.
3. To inculcate technical, professional, and leadership skills, moral ethics, and lifelong learning.

Programme Educational Outcomes

The Bachelor of Mechanical Engineering curriculum is designed to impart Knowledge, Skill, and Attitude to the graduates to

PEO 1: Have a successful professional career in Mechanical Engineering and allied industries, either by employment or through entrepreneurship.

PEO 2: Establish competency in Design, Thermal, Materials, and Manufacturing system with ethics and social responsibility.

PEO 3: Have a continual receptiveness for leadership and social challenges.

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Message from the Head of the Department

**Dear Colleagues,
Greetings!**

I have great pleasure and pride in announcing that the Department of Mechanical Engineering is publishing the newsletter for the month of June 2024. We are steadfast in our progress as it involved various activities that enabled the hidden talents of the department students and faculty members to be brought to light. Besides the lockdown, our faculty members are continuously attending various training programs, publishing research papers, and book chapters, and are also working on getting patents.

This newsletter is the reflection of department activities that showcase all the events held in the department, the contributions of faculty members, and students, and the best practices adopted. I would like to congratulate all the members of the editorial board for their sincere effort to realize this venture.

Dr. R. Samuel Hansen, M.E., Ph.D.
Professor & Head
samuel_hansen@rediffmail.com



ALUMNI ACHIEVEMENT



IIM Jammu has informed that Yokesh Sundar Kumar A has been provisionally selected for the MBA 2024-26 program, which will begin in July 2024. To confirm the offer, the candidate is required to pay an Offer Acceptance Amount of INR 50,000 by 20th May 2024. This payment will be deducted from the first-term fees. If the candidate wishes to withdraw before 20th June 2024, they will be refunded the acceptance amount, minus a processing fee of INR 1,000. However, no refund will be given after this date. The admission remains provisional and is subject to the verification of documents and fulfillment of eligibility conditions. False or incorrect information will lead to immediate cancellation of the admission.



Mr. Abraham Jebamani Raj Thomas Gnanasigamani
Hvy/78, Peravatty Nagar,
KTC Nagar,
Tirunelveli-627011
Contact No: 8754093523

Chengalpattu, 12 June 2024
Ref: HR/JOBREQ_50163111/2024-06

Dear Mr. Abraham Jebamani Raj Thomas Gnanasigamani

Congratulations!

We are pleased to offer you the position of **Engineer, GBS** with Renault Nissan Technology & Business Centre India Pvt. Ltd. Your location for reporting is RNTBCI Chennai, India and the scheduled date of joining is on or before **15 July 2024**. The offer stands withdrawn thereafter unless the date is extended or communicated to you in writing.

Your annual gross salary will be **INR: 500,000/- (Rupees Five Lakh only)** as detailed in Annexure 1. You will also be covered under the Company Group Insurance Scheme as per policy terms agreed by the company.

Your terms and conditions of employment are as mentioned in Annexure 3. You will be governed by the terms and conditions of the company and subject to any further amendments from time to time. You are advised to read the Annexures carefully and if the terms and conditions are acceptable to you, please sign the duplicate copy as a token of you having understood and accepted the same.

In case of further clarifications with reference to your joining, please get in touch with our Joining Cell on Email: hr.onboarding@rntbci.com and you are requested to submit the copies of self-attested document as per Annexure 2 at the time of joining.

Renault Nissan Technology & Business Centre India (RNTBCI) family welcomes and wishes you for a rewarding career.

In line with Government of India regulations, you need to possess Aadhaar or an Aadhaar enrollment number in order to complete your joining formalities. In case your Aadhaar card contains only year of birth, please use the Self-service update portal (SSUP) or approach an enrollment center to update your date of birth. We require the Aadhaar or Aadhaar enrollment number with your date of birth included.

Sincerely

Bhargavi Gopalakrishna
Head – Talent Acquisition
RNTBCI

Acceptance of Offer
Abraham Jebamani Raj Thomas Gnanasigamani

Renault Nissan Technology & Business Centre India Pvt. Ltd. (RNTBCI) has officially offered Mr. Abraham Jebamani Raj Thomas Gnanasigamani the position of Engineer, GBS at its Chennai location. The offer stipulates a joining date on or before 15th July 2024, with the position being withdrawn if not accepted by this deadline unless extended in writing. The position offers an annual gross salary of INR 500,000 (Five Lakh Rupees) along with coverage under the company's Group Insurance Scheme. The terms and conditions of employment are outlined in the accompanying annexures, which Mr. Gnanasigamani is advised to carefully review and accept. In addition, the company requires Mr. Gnanasigamani to provide self-attested documents as per Annexure 2 and ensures that he meets the necessary government requirements. A valid Aadhaar card or Aadhaar enrollment number with updated date of birth is mandatory for completing the joining formalities.

ACHIEVEMENT/ ACADEMIC

ANNA UNIVERSITY::CHENNAI - 25
Department of Mechanical Engineering
PSR Engineering College
Virudhunagar - 626140

Printed Date : 20-05-2024 07:15:34-am
Notification for Ph.D. Public Viva-Voce Examination
DH : AR4

Name of the Scholar : Sheik Sulaiman S
Registration Number : 17182897380
Degree / Category : Ph.D. / Part-Time
Faculty : Mechanical Engineering
Title of the Thesis : EVOLUTIONARY COMPUTATION TECHNIQUES FOR GREEN LAYOUT DESIGN APPROACH IN MANUFACTURING INDUSTRIES
Date and Time of Viva-Voce Examination : 10.06.2024 & 10:35-am
Venue : Seminar Hall
Department of Mech.
P S R Engineering College, Sivakasi, Virudhunagar
Tamilnadu - 626140
Name and Address of the Supervisor : Dr.A.Muthiah
Associate Professor
Department of Mechanical Engineering
PSR Engineering College
Virudhunagar - 626140
Name and Address of the Joint Supervisor/Additional Supervisor/Research Co-ordinator/Supervisor In-charge : Dr. Janakiraman.V
Professor
Department of Mechanical Engineering
Vaigai College of Engineering
Madurai - 625122

All are cordially invited to attend the Ph.D. Public Viva-Voce Examination
Date : 14-05-2024
Place : P S R Engineering College, Sivakasi, Virudhunagar, Tamilnadu - 626140
Signature of the Supervisor : Dr. A. MUTHIAH
(Name, date and seal)
Signature of the Head/Director of the Centre of the Supervisor : Dr. H. KANAGASARAPATHY
(Name, date and seal)
Head of the Institution at the Supervisor : Dr. H. KANAGASARAPATHY
(Name, date and seal)
Copy to :
Personal Secretary to Vice Chancellor, Anna University, Chennai - 25.
Personal Assistant to Registrar, Anna University, Chennai - 25.
The Controller of Examinations, Anna University, Chennai - 25.
The Additional Controller of Examinations, Anna University, Chennai - 25.
The Director, Centre for Research, Anna University, Chennai - 25.
The Director, Ramanujan Computing Centre, Anna University, Chennai - 25.
Dean / Director Principal of Government, Government Aided and Affiliated Engineering Colleges.

The Ph.D. Public Viva-Voce Examination for Dr. Sheik Sulaiman S, a Ph.D. scholar in Mechanical Engineering at PSR Engineering College, Virudhunagar. His thesis, titled "*Evolutionary Computation Techniques for Green Layout Design Approach in Manufacturing Industries,*" will be examined during the public viva-voce on 10th June 2024 at 10:35 AM. The event will take place at the Seminar Hall, Department of Mechanical Engineering at PSR Engineering College. The public is invited to attend this important academic milestone.

11TH Broad of Meeting



The 11th Board of Study meeting is an important academic event where members of the academic committee and faculty gather to discuss key matters related to curriculum development, research advancements, and other educational policies. During such meetings, various aspects of academic programs are evaluated, including course content, teaching methodologies, faculty development, and student performance.

This meeting serves as a platform for reviewing the progress of ongoing projects, introducing new subjects, making modifications to existing courses, and ensuring that the academic programs align with the current trends and industry requirements. It typically involves presentations from different departments, discussions on feedback from students and faculty, and decisions on the future direction of the academic programs.

INTERNSHIP/ PLACEMENT

Placement

*** Private & Confidential ***

Mr. Abubacker Ashik
158 G1 Annanagar north, pettai, tirunelveli - 627001

Your ref/date: _____

Our Ref: **RBIN/HRL2**

Date: **24.06.2024**

 **BOSCH**

Bosch Limited - (PAN AAACM)
9840 P1 - (CIN)
L85110KA1951PLC000761)
Post Box No-3095
Hosur Road, Adugodi
Bengaluru-560030
Karnataka, India
Tel: +91 80 6752-2363
Fax: +91 80 222-72728
www.bosch.in

Graduate (Engineering) Apprenticeship Program - 2024

Dear Abubacker Ashik,

We are pleased to offer you apprenticeship training as Graduate Apprentice at Bosch Limited, Gangaikondan 'Company', under the provisions of Apprentices Act 1961, as amended from time to time. Your training will start from **17.07.2024** and shall be for a fixed period of one year, ending on **16.07.2025**.

This offer letter is provisional, subject to you being declared medically fit by the Company's Medical Officer.

1. During the training period, your stipend will be as follows:

Particulars	INR Per annum
Consolidated Stipend	INR 449342
*Group Personal Accident Insurance	658/-
Total	INR 450000

*is paid by the Company directly

Apart from the consolidated stipend as mentioned aforesaid, you shall not be entitled for any other amounts, allowances, perks or benefits.

2. Your engagement as Graduate Apprentice with the Company is subject to you passing the graduate examination with a minimum of 60% marks and producing the Pass Certificate within 2 months of your joining. In case, you fail to pass the graduate examinations or fail to obtain a minimum of 60% marks as the overall score, your engagement shall be terminated immediately without any financial obligation on the Company.

Bosch Limited Offers Graduate Apprenticeship Training to Abu backer Ashik Gangaikondan, India – 16th May 2024

Bosch Limited has extended an offer to Abu backer Ashik for an Apprenticeship Training as a Graduate Apprentice under the Apprentices Act 1961. The training is scheduled to commence on 17th July 2024 and will run for a fixed duration of one year, ending on 16th July 2025. This offer is provisional and contingent on Abu backer Ashik being declared medically fit by the company's Medical Officer. The stipend for the training period is as follows: Consolidated Stipend: INR 449,342 per annum; Group Personal Accident Insurance: INR 658 (paid directly by the company). The total stipend for the apprenticeship training is INR 450,000. Apart from the stipend, no additional allowances, perks, or benefits are provided. Bosch Limited is excited to welcome Abu backer Ashik to the apprenticeship program and wishes him success during the training period.

Internship

We are excited to announce that 9 final-year students from the Mechanical Engineering department have been selected by Berht Robotics. This remarkable achievement reflects their dedication and technical expertise in the field of robotics and automation. Congratulations to the students for securing these promising opportunities, and best of luck in their future endeavors.

APPLIED LAB

ELECTRIC SCOOTER



The invention, developed by students from the Applied Research and Development Lab at Francis Xavier Engineering College's Department of Mechanical Engineering, includes Nitish Kumar, Palakumaran, Balasurya, Mohammed Abdul Raheem, Venkatesh, and Krupa Selvakumar. This innovative electric scooter is designed to be smooth, quiet, and usable in all environments, making it ideal for quiet, pollution-free

Edited & Designed by Dr. K. Vinukumar, AP/Mech, FXEC SOCIAL MEDIA  /FXEC Mechanical

transportation. Additionally, the scooter features a reverse switch that, when activated, makes the front wheel automatically rotate backward, enabling reverse movement. This three-wheeled electric standing scooter offers a unique combination of simplicity, maneuverability, and stability. Compared to regular two-wheeled scooters, the third wheel provides added stability, making it easier to balance. This makes it particularly beneficial for people with no riding experience or those facing balance issues. The three-wheeled scooter has been designed for easy handling, making it perfect for tight or crowded spaces. It can be used in shopping malls, parks, transportation hubs, farmer's markets, university campuses, closed parking garages, and security guard stations, among other locations. The scooter is equipped with a 10-inch, 350-watt hub motor, capable of carrying up to 150 kg. It can travel at an average speed of 35 km/h, covering a distance of up to 50 kilometers. The custom-designed lithium ferro phosphate 48-volt, 18-kg battery offers high efficiency, long-lasting power, and fast charging capabilities. Compared to other available vehicles, this electric scooter is simpler, easier to maintain, and more affordable, priced below ₹60,000, including additional parts. This vehicle provides urban dwellers with the opportunity to take responsibility for their own transportation needs. It reduces the environmental impact of travel and promotes faster mobility. The project's encouragement and support came from General Managers Jayakumar and Krishnakumar, Principal Velmurugan, Applied Lab In-charge Lakshmi Narayanan, Assistant Professor Sulaiman from the Department of Mechanical Engineering, as well as Skat Educational Group founder Kittaspabu and Coordinator Darshini Arunbabu.