



## **REMEMBERING THE GREAT VISIONARY: BJI CELEBRATES ITS PATRON'S DAY**

BJI family celebrated its Patron's Day 2023 on 27th February 2023, remembering the life and work of Bishop Jerome M. Fernandez, the first Indian bishop of the Catholic Diocese of Quilon. Rev Dr Baiju Julian, Episcopal Vicar of the Diocese of Quilon presided over the function. The event commenced with a prayer song followed by the welcome speech delivered by Dr D. Roshan Kumar, Principal of BJI. The presidential address was delivered by Rev. Fr. Dr Baiju Julian, Episcopal vicar and postulator of the Quilon dioceses. Rev. Fr. George Reibero, Manager of BJI, and Rev. Fr. Sajjan Walter, Bursar of BJI, performed the eulogy. Floral tributes were made by all dignitaries, HoDs, and students. Rev. Fr. Dr Romance Antony, parish priest of Kakkottumoola, stated during his Remembrance Day speech that his Lordship believed that education was a means to enlightenment, social change, and material prosperity. That was a glorious chapter in the Diocese's march towards long-term progress. Asst. Prof. Nevin Nelson proposed the vote of thanks.

Academic Excellence Awards were distributed to meritorious students who secured top positions in the even-semester university examinations of 2022. Afsal J (S6 ME), Sreeram S Kumar (S4 ME) and Emmanuel Samson (S2 ME) bagged the prestigious award from the Department of Mechanical Engineering. Prof Channu Lal (HoD, Department of Electrical and Electronics Engineering) and Prof Lekshmi M S (School of Management) were felicitated for securing a PhD.

The function also witnessed the trailer launch of the techno-cultural fest, SIDHANTHA '23. All four engineering departments made a presentation about their activities in the previous techno-cultural fests.

## FROM THE EDITORIAL TEAM,

As we gear up for the upcoming techno-cultural fest and educational tours in the month of March, it is important to emphasize the significance of co-curricular and extra-curricular activities in engineering education. These activities not only provide an opportunity to showcase our talents but also help in developing various life skills.

Team spirit is an essential aspect of any profession, especially in engineering. Participating in events and competitions in college helps us in developing a sense of teamwork and collaboration, which is vital for success in the professional world. These activities help you learn to work in a team and achieve common goals, which is an essential attribute for a successful engineering career.

Co-curricular and extra-curricular activities also provide a platform to develop organizational and leadership abilities. As a participant in these events, we learn how to organize and manage tasks, resources, and people. These skills come in handy in real-world situations, where leadership and organizational abilities are critical to success.

The upcoming techno-cultural fest and educational tours offer an opportunity for students to showcase their talents and develop these essential life skills. Participating in these events can help us learn new things, expand our horizons, and prepare us for a successful career.

We urge all BJlans to participate actively in the upcoming techno-cultural fest and educational tours, and make the most of these opportunities to develop team spirit, organizational, and leadership abilities.

The Engineering Edge wishes all the very best for your participation in these events and hope that you will have a great learning experience.

## POEM

### VOIDS

The heart buries many a void  
Deep and concealed,  
Vacant thoughts that you avoid  
Waiting to be unsealed.

Voids - the memories and pains of the past  
That pricks and hurts  
Having cherished at times  
And neglected a thousand times.

Thoughts unheard  
Silenced by the world  
Turn into voids;  
Having never dared to acknowledge,  
They wait for ages  
Like birds in cages.

Quiet many have I met along the way  
Some who betrayed  
Some who stayed  
None could ever fathom those deep voids;  
The world calls me by a name,  
I call myself by another name-  
I am but the summation of all voids.

Gadha Aravindh, E8

## QUOTES



"Engineering is the closest thing to magic that exists in the world."

*Elon Musk*

*CEO, Tesla and SpaceX, and a Mechanical Engineer*

## MEMORIAL FEATURE

Nevin Nelson



On September 8, 1901, Bishop Jerome M. Fernandez was born in Koyivila. In 1915, he entered St. Raphael's Minor Seminary, finished high school at St. Aloysius School, and was admitted to St. Teresa's Major Seminary, which was the western wing of what is now Fatima College.

On March 24, 1928, he was ordained priest after finishing his ecclesiastical studies. Pope John XXII appointed Fr. Jerome, 36, as the First Indian Bishop of Quilon in 1937. He was the world's youngest bishop. He was involved in education, humanitarian work, and charity.

During his reign of 41 long and fruitful years - from 1937 to 1978 - Bishop Jerome proved himself a man of indomitable courage and tremendous faith in God. The visionary in him built a chain of schools, colleges and other educational institutions. The special interest the Bishop took in the growth and development of Fatima College is worth mentioning. This college is, undoubtedly, the fruit of this dedicated and far-sighted prelate's selfless labour.

Karmela Rani Training College at Kollam, Bharatha Matha I.T.I at Kottiyam and the Jyoti Nikethan Women's College at Kollam, sister institutions of Fatima, were founded in 1960, 1962 and 1973 respectively. The Benziger Hospital and the Nursing School are the other outstanding gifts of the Bishop to his flock.

Bishop Jerome was a great defender of the rights of minorities, especially in the field of education. When efforts were made to nationalise educational institutions in the late 1940s by the Dewan of Travancore, Sir. C.P. Ramaswamy Iyer, and in the late 1950s by the Government in Kerala, he was very much in the forefront of the battle against this move. In the socio-economic field, he established the Quilon Social Service Society, which has been helping improve the lives of the people of this area since 1960.

In order to spread the Good News in the context of social reformation to the common folk lives in vast region of the Diocese of Quilon, He established Catholic Press in the year 1942 and started publishing a magazine named "Catholica Prevarthanam." In 1956, to protect and propagate faith in and around diocese, he established "Viswadharmam" weekly. He formed a 'Commission for the protection of Faith' and they were responsible for the "Viswadharmam".

On May 14, 1978, he resigned as Bishop and lived in priest home like a saintly Indian hermit which shows his simplicity. He wore simple saffron cloths, used ordinary means of transport and showed mercy to all people with no discrimination. He had spent his time in prayer and ascetic life. To spread the spirituality to all community he became the proponent of Charismatic movement in India. He attained heavenly abode on February 26, 1992, and his mortal remains are buried in the Infant Jesus Cathedral, Thangasseri, Kollam. He remains, a holy man in the minds of the faithful.

**FEBRUARY NEWS****PROF BEJOY S TAKES CHARGE AS THE HEAD OF MECHANICAL DEPARTMENT**

Assistant Professor Bejoy S, experienced faculty of the department of Mechanical Engineering took charge as the HoD with effect from 1st February 2023. He graduated from CUSAT in Mechanical Engineering and successfully completed PG from TKM College of Engineering in Industrial Refrigeration and Cryogenics Engineering. He has a teaching experience of more than 14 years to his strength.

**UPCOMING EVENTS****SIDHANTHA'23****TECHNO CULTURAL FEST**

The college technical and cultural fest is decided to be conducted on the 4th week of March 2023. The programme is planned for 3 days - March 23 will be Arts Day - Dakshatha 2023, followed by Tech Fest on March 24 and 25.

The logo reveal event for the fest is planned for March 10, 2023. The following committees are headed by convenors from the Department of Mechanical Engineering.

General Convenor: Asst. Prof. Dhaneesh R I

Department Coordinator: Asst. Prof. Lajju Thankachan T

Staff Treasurer: Asst. Prof. Arunima Krishnan

Exhibition Committee: Asst. Prof. Rony Mohan

Sponsorship Committee: Asst. Prof. Tony John

Discipline Committee: Asst. Prof. Nevin Nelson

**BJI FELICITATES TOPPERS OF EVEN SEMESTER UNIVERSITY EXAMS**

Academic Excellence Awards were distributed to the toppers of 2021-'22 even semester university exams. Afsal J (left) of the 2019-23 Batch secured an SGPA of 8.46 in the sixth-semester exam. Sreeram S Kumar (centre), with an SGPA of 8.23 topped the fourth semester and Emmanuel Samson (right) bagged an SGPA of 8.5. The awards were given during the patron's day celebrations by Rev Fr Sajan Walter, Bursar, BJI.

### TECHNOLOGY ROUND UP

#### FUTURE OF MECHANICAL ENGINEERING IN INDIA

Mechanical engineering is an evergreen field in India, and it will continue to be relevant in the future. With the growth of the manufacturing sector and the need for advanced technologies in industries like aerospace, automobile, and robotics, there will be a high demand for mechanical engineers. Additionally, the increasing focus on renewable energy sources and sustainable manufacturing practices is creating new opportunities for mechanical engineers to work on innovative projects. Therefore, the future of mechanical engineering in India looks promising.

Mechanical engineering is a vast field that encompasses a wide range of industries. Some of the sectors that are likely to be predominant in the future of mechanical engineering in India are:

**Automotive Industry:** The automotive sector is one of the largest consumers of mechanical engineers in India. With the growing demand for electric and hybrid vehicles, mechanical engineers will play a crucial role in the design and development of these vehicles.

**Aerospace Industry:** The aerospace sector is another industry that requires the skills of mechanical engineers. India has been investing heavily in the development of its aerospace sector, which is expected to create significant opportunities for mechanical engineers.

**Robotics and Automation:** With the increasing emphasis on automation and robotics in manufacturing and other industries, mechanical engineers with knowledge of robotics and automation will be in high demand.

**Energy Sector:** The energy sector is another industry that will require mechanical engineers in the future. With the growing demand for clean energy,

mechanical engineers will be needed to design and develop renewable energy technologies such as wind turbines, solar panels, and hydropower plants.

**Healthcare Industry:** The healthcare industry is a relatively new sector for mechanical engineers in India. However, with the development of medical devices and technologies, mechanical engineers will play a crucial role in the design and development of these devices.

The future of mechanical engineering in India looks promising, with opportunities in a diverse range of industries.

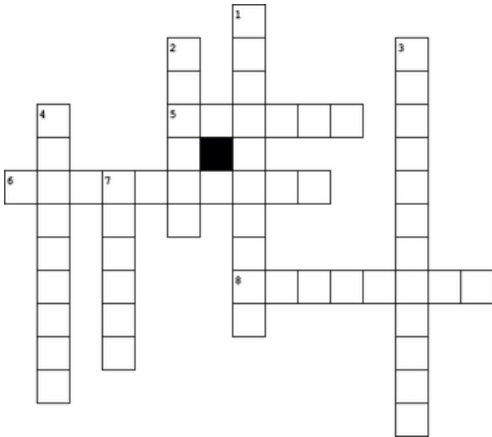
Nelson Nelson

#### ENGINEERING EDGE IS ON THE NEWS!

The initiative of Engineering Edge to publish the January issue exclusively using AI generated articles were well received by the media. The news was featured on two leading newspapers of Kerala - Malayala Manorama and Deshabimani.



**CROSSWORD**



**ACROSS**

- 5. A machine that converts rotational motion into linear motion
- 6. The study of the motion of objects without consideration of the forces that cause the motion
- 8. A device that transmits rotational motion between two shaft

**DOWN**

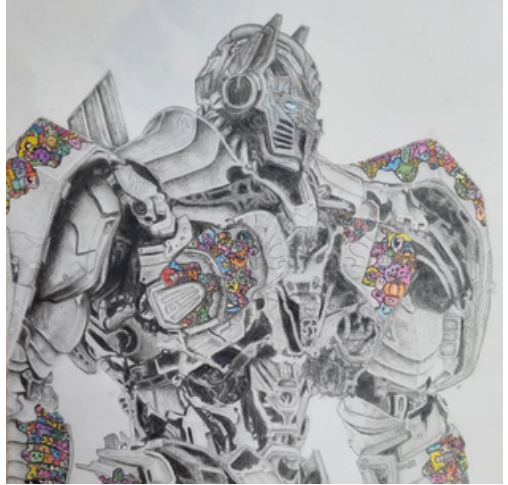
- 1. ratio of the force exerted by a machine to the force applied to it
- 2. A unit of pressure equal to one newton per square meter
- 3. A measure of a material's ability to conduct heat
- 4. A material's ability to resist deformation under load
- 7. A device used to convert heat energy into mechanical energy



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[engineering.edge@bjgi.in](mailto:engineering.edge@bjgi.in)

**PAINTING**



"We can be heroes in our own lives, Every one of us. If we only have the courage to try" - Optimus Prime

JOSE ROSAN, S4 MBA

**IMPORTANT DATES IN MARCH**



- 1st March : Zero Discrimination Day
- 4th March : National Safety Day
- 8th March : International Women's Day
- 14th March : Pi Day
- 18th March : World Sleep Day
- 20th March : International Day of Happiness
- 21th March : World Poetry Day
- 22nd March : World Water Day
- 27th March : World Theatre Day