



Engineering A Better Tomorrow

An Autonomous Institution  
Affiliated to VTU, Belagavi,  
Approved by AICTE, New Delhi,  
Recognised by UGC with 2(f) & 12 ( B)

**III BOARD OF GOVERNORS MEETING  
11<sup>th</sup> Feb 2023**

**HEARTY WELCOME TO THE CHAIRMAN  
AND MEMBERS OF BOARD OF GOVERNORS**

**PROGRESS HIGHLIGHTS**



# Progress highlights since last BOG Meeting

Progress has been made in various activities since the last Board of Governors Meeting held on 2<sup>nd</sup> July 2022. Valuable suggestions and inputs provided during II BOG Meeting were considered carefully and implemented in the Institution for the overall development and growth. Major activities are listed below:

# Progress highlights since last BOG Meeting

## NBA Accreditation:

NBA accreditation was extended for three years to three UG programmes, Chemical, EEE and ISE from 2022-23 to 2024-25 (up to 30th June 2025) based on the NBA Expert team visit on 6th Aug 2022.

## Alumni Meet:

We have organized the Alumni Meet on 28th Aug 2022 to reconnect with the Alumni and celebrate their success and various achievements. We have invited the Chief Guest, Mr. Subhadip Sarkar, (Alumnus of Department of Mechanical Engineering, Class of 1999) Vice President, Cognizant Technology Solutions, Bangalore.

# Progress highlights since last BOG Meeting

## Induction and Graduation Day Programmes:

We have organized Student Induction Program for the First-year students of 2022-23 batch on 27th Nov 2022 for 11 days (Phase1). Chief Guest of the occasion was Dr. Girish Deodhare, Director General, ADA, DRDO, Bangalore.

MVJCE worked closely with the newly joined students in making them feel comfortable, allowed them to explore their academic interests and activities, promote bonding within them, build relations between teachers and students.

We have organized Graduation Day on 27th Nov 2022, graduation day is celebrated in receiving a degree when a student has been certified by the University as meeting all degree requirements. Chief Guest of the occasion was Dr. A S Kiran Kumar, Chairman (ISRO) during Jan 2015-18.

# Progress highlights since last BOG Meeting

## Lecture sessions:

### Department of Aeronautical and Aerospace Engineering:

- The Department of Aeronautical Engineering, has organized a Guest lecture on Composite Structures” held on 16th Nov 2022, Mr. Lakshminarasimha, DGM, HAL, Bangalore was the Resource Person.
- Organized a Guest Lecture-on “Aircrafts and Helicopters in Indian Scenario” held on 16th Dec 2022, Mr. Ashok, Vice Chairman, Aeronautical Society of India, Bengaluru was the Resource Person.
- Organized a Guest lecture on “Capability Enhancement” held on 7th Jan 2023, Mr Abhishek, from Airframe Engineering, AIRBUS, Bengaluru was the Resource Person.
- Organized a Guest lecture on “Design of Electric and Hybrid Transport Aircraft” held on 17th Jan 2023, Dr Rajkumar S Pant, Professor, Department of Aerospace Engineering, IIT Bombay was the Resource Person.

# Progress highlights since last BOG Meeting

## Lecture sessions:

- Organized a Guest Lecture on "Radio Astronomy" held on 20th Jan 2023, Dr. Das Mousumi, Indian Institute of Astrophysics, Bengaluru was the Resource Person.
- Organized a Guest Lecture on "Aircraft design" held on 24th Jan 2023, Mr. Badri Narayana, Subject Expert, Centre of Excellence in Aerospace and Défense, VTU Regional Center, Bengaluru was the Resource Person.

## Department of Chemical Engineering:

- Organized a National Commemorative Day on "Food-Energy-Water: Challenges and Recent Developments" held on 16th Nov 2022, Dr. Ganapathi Patil, Senior Scientist II at Novozymes Pvt. Ltd., was the Resource person.
- Organized a Guest Lecture on "Revolution of Industrial Chemistry to industrial Chemical Engineering" held on 27th July 2022, Dr.B.Nagappa, Former Senior Scientific Officer, Karnataka State, Pollution Control Board, was the resource person.



# Progress highlights since last BOG Meeting

## Lecture sessions:

### Department of Civil Engineering:

1. • Organized a Guest lecture on “Challenges in Metro Construction” held on 7th Dec 2022, Sri. G. C. Shivakumar, Chief Engineer, Planning and Design, BMRCL, Bangalore was the Resource Person.
2. • Organized a Guest lecture on “Challenges and Opportunities in Geotechnical Engineering” held on 7th Jan 2023, Dr. G. L. Shivakumar Babu, Professor, IISc., Bangalore was the Resource Person.



## Progress highlights since last BOG Meeting

Lecture sessions:

Department of Computer Science & Engineering/Artificial Intelligence & Machine Learning/Computer Science & Design:

- Organized Guest Lecture on 'Insights of Mongo DB' held on 18th Nov 2022 in association with AI&ML. Mr. Purushottam Kumar, Corporate Trainer, Bangalore was the Resource Person.
- Organized Guest Lecture on 'Datafication' held on 20th Jan 2023 in association with AI&ML & CSD. Mr. Mohan H. M, Data Analyst, Digital Shark Technology pvt. Ltd., Bangalore was the Resource Person.
- Organized Guest Lecture on 'Analysis & Design of Algorithm' held on 21st Jan 2023 in association with AI & ML. Mr. Ranjan Sathish, Founder Director, Waylink solutions, Bangalore was the Resource Person.



# Progress highlights since last BOG Meeting

## Lecture sessions:

### Department of Electronics & Communication/Industrial IoT:

- Organized a Guest Lecture on “Space for all and its Opportunities” held on 23rd Dec 2022 in association with Industrial IOT, Ms. A. Vijaya Bhanu, Deputy Director, Indian National Space Promotion Centre was the Resource Person.
- Organized a Guest Lecture on “Human Vs Machine Intelligence” held on 10th Dec 2022 in association with Industrial IOT, Mr. Ajith Clarence, Senior Engineer, AMD, Bangalore was the Resource Person
- Organized Guest Lecture on “Motivational session by successful Innovator” held on 24th Dec 2022, in association with IIC, Mr. Arjun R ,Chairman and MD of Paryaavarneer Engineers and Consultants Pvt. Ltd., Bangalore was the resource person.

# Progress highlights since last BOG Meeting

## Lecture sessions:

### Department of Electrical & Electronics Engineering:

- Organized a Guest Lecture on 'Digital Signal Processing: Past, Present and Future' held on 5th Dec 2022. Dr. Ashok Rao, Director, NIE Mysore, Former Head, Network Project, IISc, Bangalore was the Resource Person.
- Organized a Guest Lecture on 'Effect of Green Energy on Indian Energy Sector' held on 13th Jan 2023. Mr. Ramesh Babu Darla, Sr S/W Engineer at CISCO was the Resource Person.
- Organized a Guest Lecture on 'Applications of Robotics in Electrical Industries' held on 21st Feb 2023. Mr. Jishnu R Krishnan, Robotics Engineer, was the Resource Person.

# Progress highlights since last BOG Meeting

## Lecture sessions:

### Department of Information Science & Engineering/Data Science:

- Organized Guest Lecture on 'Serverless computing' held on 19th Nov 2022 in association with Data Science. Mr. Rajat Agarwal, Principal Software Engineer, First American (India), Bangalore was the Resource Person.
- Organized Guest Lecture on 'Big data analytics' held on 14th Dec 2022 in association with Data Science. Mr. Darshan Viswanath, Senior Manager, Myntra, Bangalore was the Resource Person.

### Department of Chemistry:

- Organized a Guest Lecture on "Fundamentals and applications of XPS & XRD" held on 28th Jan 2023 Dr. Parathasarathi Bera , principal scientist NAL , Bengaluru was the Resource person

# Progress highlights since last BOG Meeting

## Lecture sessions:

### Department of Mechanical Engineering:

- Organized a Guest Lecture on “Material and Structural Test Solutions” held on 16th July 2022 in association with IIEC and IQAC-MVJCE. Dr. Ankur Kulkarni, General Manager, ITW India Pvt. Ltd., Bangalore was the Resource Person.
- Organized a Seminar on “Significance of Stress Analysis for Mechanical Engineers” held on 2nd Nov 2022 in association with IIEC and IQAC-MVJCE. Dr. Shashidhar S, Principal Engineer, Collins Aerospace Ltd., Bangalore was the Resource Person.
- Organized a Guest Lecture on “Battery Materials” held on 16th Dec 2022 in association with IIEC and IQAC-MVJCE. Mr. Robin George, Vice President, Log9 Materials, Bangalore was the Resource Person.



## Progress highlights since last BOG Meeting

### Lecture sessions: Department of Mathematics:

- Organized a Guest Lecture on 'Artificial Intelligence and Numerical Methods in Data Science' held on 2nd July 2022. Dr. G N Mohapatra, Principal Scientist, CSIR, NAL Bangalore was the Resource Person.
- Organized a Guest lecture on 'Applications to differential equations' held on 21st Jan 2023. Dr. Thirupathi Gudi, Professor, IISc Bangalore was the resource person.

### Department of Physics:

- Organized a Guest lecture on 'Applications of nanomaterials in Engineering' by Dr. K.Sakthipandi, Professor, SRM University Trichy, held on 4th July 2022.
- Organized a Guest lecture on 'Nano Electronics' by Dr. Bhagaban Behera, Senior Scientist, NAL Bangalore, held on 24th Jan 2023.

# Progress highlights since last BOG Meeting

## Industrial visits organized:

### Department of Aeronautical and Aerospace Engineering:

- Organized an Industrial visit on 26<sup>th</sup> Nov 2022 to HAL Engine Division, for VII sem students of Aeronautical Engineering.
- Organized an Industrial visit on 24<sup>th</sup> Dec 2022 to HAL Engine Division, for VII sem students of Aerospace Engineering.

### Department of Civil Engineering:

- Organized an Industrial Visit on 30<sup>th</sup> Nov 2022 to Bangalore Metro Rail Construction (BMRCL), Bangalore for VII semester students of Civil Engineering.
- Organized an Industrial Visit on 30<sup>th</sup> Nov 2022 to National Institute of Rock Mechanics (NIRM), Bangalore for III & V semester students of Civil Engineering.

# Progress highlights since last BOG Meeting

## Industrial visits organized:

### Department of Electronics & Communication/Industrial IoT:

- Organized an Industrial visit on 9th Dec 2022 to ISRO, Bangalore for V sem students of Electronics and Communication Engineering.

### Department of Electrical & Electronics Engineering:

- Organized an Industrial visit on 24th Nov 2022 'Vijaya Transformers' for V semester students of Electrical and Electronics Engineering.
- Organized an Industrial visit on 28th Nov 2022 to 'Yelesandra Solar Power Plant' for VII semester students of Electrical and Electronics Engineering.
- Organized an Industrial visit on 4th Jan 2023 'Hoodi Substation' for III semester students of Electrical and Electronics Engineering.

# Progress highlights since last BOG Meeting

## Industrial visits organized:

### Department of Information Science & Engineering/Data Science:

- Organized an Industrial visit on 28th Dec 2022 to CDAC, Bangalore for VII sem students of Information Science and Engineering.

### Department of Mechanical Engineering:

- Organized an Industrial visit on 9th July 2022 to BEML Bangalore for VI sem students of Mechanical Engineering.
- Organized an Industrial visit on 9th Dec 2022 to MOOG India Technology Centre Pvt. Ltd. for V sem students of Mechanical Engineering.





# Progress highlights since last BOG Meeting

## Workshops/STTPs organized:

### Department of Aeronautical and Aerospace Engineering:

- Organized Two-day Workshop on 'UAV Construction' held on 13th and 14th Jan 2023 by the UAV Club, MVJCE for III sem students.

### Department of Civil Engineering:

- Organized a three-days Value Added Course on "Rebar Scheduling and Detailing" from 8th to 10th Dec 2022. Mr. Nagendra Kumar, Director at Sterling Engineering, and Mr. Yogananda CAD-Manager-Structures-trained the students.



# Progress highlights since last BOG Meeting

## Workshops/STTPs organized:

### Department of Computer Science & Engineering/Artificial Intelligence & Machine Learning/Computer Science & Design:

- Organized a one-day Workshop on “IPR & IP Management for Start -ups” in association with ECE Department on 6th Jan 2023, Dr.Rama krishna Murthy, Founder, Inbha IP Solutions Pvt. Ltd. Bangalore trained students on IPR and start-ups.
- Organized a one-day Workshop on “Cyber Security” in association with CSD Department on 6th Jan 2023, Mr.Pushpas V, Web App Security, Bangalore trained students.

# Progress highlights since last BOG Meeting

## Workshops/STTPs organized:

### Department of Electronics & Communication/Industrial IoT:

- Organized a one-day Workshop on “Raspberry PI- IOT” in association with Industrial IoT Department, on 26th Nov 2022, Dr Vivek Yoganand Senior Technical Support Engineer, Red Hat, Bangalore trained students.
- Organized a two-day Workshop on Robotics under CoE in Robotics and Industrial Automation in association with Department of Industrial IoT on 5th and 6th Jan 2023, Dr. P. Murali Krishna, Scientist DRDO, Bangalore and Dr. Koushik Das Scientist, TCS Research Innovation Lab and his team trained the students.



# Progress highlights since last BOG Meeting

## Workshops/STTPs organized:

### Department of Electronics & Communication/Industrial IoT:

- Organized a two-day Workshop on “3D Printing and PCB Designing” under CoE in Robotics and Industrial Automation in association with Department of IoT on 19th and 20th Dec 2022, Dr. V. S. Gangwar, Scientist, DRDO trained students.
- Organized a two-day Workshop on “Introduction to smart IOT devices” in association with Department of IoT on 14th and 15th Dec 2022, Dr.T. Rajesh, Technical lead Engineer, IEP Solutions, Bangalore trained students about key concepts on Introduction of IOT technology.

# Progress highlights since last BOG Meeting

## Workshops/STTPs organized:

### Department of Electrical & Electronics Engineering:

- Organized a 3-Days Value Added Course on 'Insights to Lab-View' from 10th to 12th Oct 2022, Dr. Thilagaraj, Associate Professor, ECE Department, MVJCE trained students on tools used in NI Lab View.
- Organized a 3-Days Short-Term Training Program on 'Circuit Simulation using NI-Multisim' from 19th to 21st Dec 2022 Nagarajan G, Lead Engineer and Manimaran A, Assistant Manager of VI solutions, Bangalore trained students on fundamentals of circuit building in NI Multisim.
- Organized a 3-Days Workshop on 'Artificial Intelligence and Machine learning in the field of Electrical and Electronics Engineering' from 22nd to 24th Dec 2022, Mr. Apoorva Ankad, Co-Founder Deevia Software Pvt. Ltd, and Mr. Sandeep Kumar E, Asst. Manager, Robert Bosch trained the students.



# Progress highlights since last BOG Meeting

**Workshops/STTPs organized:**

**Department of Mechanical Engineering:**

Organized a three-day Workshop on “ANSYS” from 8th to 11th July 2022, Mr. Manu Ravindra, Lead Engineer – Design Division, Polymer Products of India Ltd, Bangalore, and Mr. Saurabh Prasad, LANDING GEAR Principal Engineer, trained students on tools used in ANSYS Workbench.

# Progress highlights since last BOG Meeting

## Department Technical club Activities organized:

### Department of Aeronautical and Aerospace Engineering:

- Organized a Club activity, Astronomy on 20th Dec 2022. The Chief Guest: Mr Sajeesh Director-Principal Engineer, Cap Gemini, Bengaluru. 250 students participated in the interactive session and learned about the building Telescope and its applications.

### Department of Civil Engineering:

- Organized a Club activity, "Model making of Campus Layout for LEED Certification "on 6th Dec 2022. The Chief Guest: Mr.C.R.Manjunath, Environmental Officer, Regional Head Bangalore.

# Progress highlights since last BOG Meeting

## Department Technical club Activities organized:

- Organized a Club activity, on "Air Quality Modelling for the given location" held on 7th Jan 2023. The Chief Guest: Dr. G.L.Shivakumar Babu Professor, IISc., Bangalore.
- Organized a Club activity, on "CAD Plot" held on 9th Jan 2023. The Chief Guest: Mr.Vikas Chandra, Executive Engineer, Bangalore Metro Rail Corporation Limited (BMRCL), Bangalore.
- Organized a Club activity, on "Civil Coding" held on 21st Jan 2023. The Chief Guest: Mrs. Praveena Das Jennifer, Scientist III, National Institute of Rock Mechanics Bangalore.



# Progress highlights since last BOG Meeting

Department Technical club Activities organized:

Department of Computer Science & Engineering/Artificial Intelligence & Machine Learning/Computer Science & Design:

- Organized a Club Activity, on “Algorithm Unlock” on 19th Nov 2022. Mr.Naveen.N, Technical Lead, Singapore Infotech Pvt. Ltd. Bangalore was the Chief Guest.
- Organized a Club Activity, on “App Architecture Development” on 21st Jan 2023. Mr.Ranjan Satheesh, Founder & Director, Waylink Solutions, Bangalore was the Chief Guest.
- Organized a Club Activity on “Networking Standards” on 20th Jan 2023. Mr.Mohan.H.M, Data Analyst, Digital Shark Technology pvt. Ltd., Bangalore was the Chief Guest.



# Progress highlights since last BOG Meeting

## Department Technical club Activities organized:

### Department of Electronics & Communication/Industrial IoT:

- Organized a Club activity, "Robo Challenge" under CoE in Robotics and Industrial Automation on 7th Jan 2023, Mr. Gowrish Banavathi Viswanath, Robert Bosch Bangalore was the Chief Guest.
- Organized a Club activity on "Smart Applications Development Using Electronic Waste" on 17th Dec 2022, Mr. Venkatesh Murthy Principal Engineer Qualcomm was the Chief Guest.

# Progress highlights since last BOG Meeting

## Department Technical club Activities organized:

### Department of Electrical & Electronics Engineering:

- Organized a Club activity, "Circuit Building" on 26th Nov 2022. The Chief Guest: Mr. Sangeeth Kumar V, IoT EDGE Consultant @ IBM, Bangalore.
- Organized a Club activity, on "Smart Reminders for Daily Life" on 28th Dec 2022. The Chief Guest: Mr. Shivakumar N R, Schneider Electric, Bangalore.

### Department of Information Science & Engineering/Data Science:

- Organized a Club Activity, "E-Ikon- club event on Achiever" on 18th Nov 2022. Mr. Sreekanth G C, Senior System Analyst, Tesco. Bangalore was the Chief Guest
- Organized a Club Activity, on "ODE to CODE" on 7th Jan 2023. Mr. Pradeep Kumar B S ,Lead Software Engineer Fedality Investments Bangalore was the chief Guest

# Progress highlights since last BOG Meeting

Department Technical club Activities organized:

Department of Mechanical Engineering:

- Organized a Club Activity, "Waste to Product" on 26th Nov 2022. Mr. Sunil G S, Manager – Mercedes Benz, Bangalore was the Chief Guest.

Department of Chemistry:

- Organized a Club activity, "Chemistry Expo Poster Presentation competition" on 4th Aug 2022. The Chief Guest was Dr. Parashuram. L., Associate professor at Nitte Meenakshi Institute of Technology, Bangalore.
- Organized a Club activity on " Technical quiz on Electric Vehicles and Superconductors " on 28th Jan 2023. Dr. Parthasarathi Bera, Principal Scientist NAL was the chief guest.



# Progress highlights since last BOG Meeting

## Department Technical club Activities organized:

### Department of Mathematics:

- Organized a Club activity on– CALCULATIONS USING CALCULATOR on 21st Jan 2023. The chief guest of this event was Prof. Thirupathi Gudi, Professor, IISc, Bangalore.

### Department of Physics

- Organized a Club activity, on “Physics puzzle solving competition” on 15th June 2022.
- Organized a Club activity, on “Physics Numerical Challenge” on 24th Jan 2023. The Chief Guest was Dr. Baghaban Behera, Senior Scientist, NAL Bangalore.



# Progress highlights since last BOG Meeting

FDPs organized:

Department of Electronics & Communication/Industrial IoT:

- Organized 6 days FDP on “LabVIEW on Graphical Design Systems” from 16th to 21st Jan 2023. The resource persons were Ms. P.Monica, Testing Engineer, Electrono Solutions, Bengaluru and Mr. M. Sabari Saravanan, Senior Test Engineer, Tessolve Semiconductor Private Limited, Bengaluru. 25 faculty members participated in this FDP.

# Progress highlights since last BOG Meeting

## Paper Publication by Faculty:

### Department of Mechanical Engineering:

- Dr. Santhosh N, Naresh H, published a paper on “Corrosion Characterization of Friction Stir Weld Dissimilar Aluminium Alloy Joints”, Published on 8th Dec 2022.

### Department of Aeronautical and Aerospace Engineering:

- Dr. R. Vijaya Kumar R, N. Tamilselvam and B. Gopinath, published a paper on” Stress Distribution, Frequency Response, Mode Shape of Twisted and Untwisted Compressor under Different Load Conditions”, International Journal of Vehicle Structures & Systems” Volume14, Issue 5, 2022, pp 686-692. ISSN: 0975-3540, Published on 8th Dec 2022.

# Progress highlights since last BOG Meeting

## Paper Publication by Faculty:

### Department of Aeronautical and Aerospace Engineering:

- Dr. R. Vijayakumar, M.M. & Venugopal, T, published a paper on “ Construction, Testing and Evaluation of a Honeycomb Structured 3D Printed Sandwich Panel under Various Loads”, International Journal of Vehicle Structures & Systems” Volume14, Issue 6 – 2022, pp-711-718. ISSN: 0975-3540, Published on 22nd Dec 2022.
- Dr. R. Vijayakumar, published a paper on “Synthesis and Characteristics of Heat Treated Zirconium Dioxide Metal Matrix Composites”, SPRINGER - Journal of the Institution of engineers, India, Series D” Published on 2nd Jan 2023.



# Progress highlights since last BOG Meeting

## Paper Publication by Faculty:

### Department of Aeronautical and Aerospace Engineering:

- Dr. R. Shankar, published a paper on “ A dual-mode system for water purification and cooling using a thermal desalination technique coupled to a heat pump unit” Applied Thermal Engineering 224 (2023) 120096. ISSN:1359-4311, Published on 23rd Jan 2023.
- Tamilselvam N, published a paper on “Influence of SMA Reinforcement on the Mechanical Properties of Glass–Epoxy Composites”, Journal of The Institution of Engineers (India): Series C,ISSN: 2250-0553, Published on 30th Jan 2023.

# Progress highlights since last BOG Meeting

## Paper Publication by Faculty:

### Department of Chemical Engineering:

- Anil kumar varma & Amit Kumar C, published a paper on "Removal of manganese from synthetic wastewater", Materials Today: Proceedings, 72(4).
- Lokendra S T & Amit Kumar C, published a paper on "The Role of Bio-Electrochemical System for Hydrogen Generation", Progress in Petrochemical Science , ISSN: 2637-8035

### Department of Computer Science & Engineering/Artificial Intelligence & Machine Learning/Computer Science & Design:

- Krishna S, P Nagaraj & V Muneeswaran, published a paper on "A Review on Face Recognition using Deep Convolutional Neural Network", IEEE, International Conference on Augmented Intelligence and Sustainable Systems on 18th January 2023. (Q2 Journal)

# Progress highlights since last BOG Meeting

## Paper Publication by Faculty:

### Department of Electrical & Electronics Engineering:

- Dr. Sowmya Mishra, published a paper on “Implementation of an ADALINE-Based Adaptive Control Strategy for Distribution System for Power Quality Improvement”, Energies, vol. 16, no. 1, p. 323-331, Published on 28th Dec 2022

### Department of Mechanical Engineering:

- B. A. Praveena Dr. N. Santhosh , published a paper on “Experimental Investigation on Density and Volume Fraction of Void, and Mechanical Characteristics of Areca Nut Leaf Fiber-Reinforced Polymer Composites”, International Journal of Polymer Science, Volume 2022, Article ID 6445022, 13 pages, ISSN: 1687-9422, Published on 21st Nov 2022.  
<https://doi.org/10.1155/2022/6445022>

# Progress highlights since last BOG Meeting

## Paper Publication by Faculty:

### Department of Mechanical Engineering:

- Dr. N Santhosh, B A Praveena, published a paper on “Wear behavior of aluminum alloy based functional composites”, Material Research Express, Volume 9, 2022, 076513, ISSN: 2053-1591, Published on 29th July 2022.
- Dr. N. Santhosh, B.A. Praveena, published a paper on “Analysis of friction and wear of aluminum composites for building applications using advanced machine learning models”, Ain Shams Engineering Journal, 2022, 102090, ISSN 2090-4479, Published on 19th Dec 2022. <https://doi.org/10.1016/j.asej.2022.102090>.

# Progress highlights since last BOG Meeting

## Paper Publication by Faculty:

### Department of Mechanical Engineering:

- Dr. Sunil Waddar, published a paper on “Buckling and free vibrations behavior through differential quadrature method for foamed composites”, Results in Engineering, Volume 17, 2023, 100894, ISSN 2590-1230, Published on 23rd Jan 2023.  
<https://doi.org/10.1016/j.rineng.2023.100894>.
- Niranjana Hugar, and Dr. Sunil Waddar, published a paper on “Mechanical behavior of stir cast TiO<sub>2</sub> metal matrix composites”, Materials Research Express, Volume 9, Issue Number 11, 116509, ISSN: 2053-1591, Published on 16<sup>th</sup> Nov 2022.

# Progress highlights since last BOG Meeting

## Paper Publication by Faculty:

### Department of Chemistry:

- Dr. Preethi G and R. Pillai, published a paper on "Role of carbon quantum dots in a strategic approach to prepare Zn<sub>2</sub>SnO<sub>4</sub> and enhance photocatalytic activity under direct sunlight" Diamond and Related Materials Published on 17th Nov 2022

### Department of Mathematics:

- Raghu N, published a paper on "Exploring various long-term side effects of COVID 19 after recovery using Computational Simulations of a Mathematical Model", AIP Conference Proceedings, ISSN:0094-243X, E-ISSN:1551-7616. Published on 30th Nov 2022.  
<https://doi.org/10.1063/5.0108542>



# Progress highlights since last BOG Meeting

## Paper Publication by Faculty UGC Journals:

### Department of Mathematics:

- Naveenakumara U. published a paper on “Effectiveness of Low-Numerical Rank Approximation to Image Compression in Wavelet Domain”. *Mathematical Modelling of Engineering Problems*, Vol. 9, No. 4th Aug 2022, PP 919-927, ISSN: 2369-0739 (print); 2369-0747 (online).  
<http://dx.doi.org/10.18280/mmep.090408>

# Progress highlights since last BOG Meeting

## Paper Publication by Faculty in SCI Journals:

### Department of Physics:

- Dr. Debalina Bhattacharjee, published a paper on “Creep cavitation damage of K-type thermocouples” Engineering Failure Analysis Volume 143, Part A, January 2023, 106846, SCIENCE DIRECT.
- Dr. Debalina Bhattacharjee, published a paper on “Effective Usage of Biochar and Microorganisms for the Removal of Heavy Metal Ions and Pesticides”, Molecules 2023, 28(2), 719; <https://doi.org/10.3390/molecules28020719>.
- S. Sathish, published a paper on “Facile synthesis of cobalt carbon nanotube composites” 130 (2022) 109440. (Impact Factor-3.8) <https://doi.org/10.1016/j.diamond.2022.109440> , Publisher: Elsevier



# Progress highlights since last BOG Meeting

## Paper Publication by Faculty in SCI Journals:

### Department of Physics:

- S. Sathish published a paper on "Sensing Photothermal Activity of Ultra-Stable Colloidal Copper Nanoparticles" 12 (2022) 2521-2531. (Impact Factor-2.7), <https://doi.org/10.1007/s11468-022-01742-4> , Publisher: Springer
- S Sathish, published a paper on "Photocatalytic and the photocurrent properties of ZnO films deposited by spray pyrolysis" Discover Materials, 2 (2022) 1-11. <https://doi.org/10.1007/s43939-022-00031-5> , Publisher: Springer

# Progress highlights since last BOG Meeting

Number of Proposals submitted:

SI.No.	Dept.	Faculty Name	Title	Agency	Date of Submission	Amount in Rs.	Status
01	ECE	Dr. Utsab Banerjee	Design and Development of a Circularly Polarized Dielectric Resonator Antenna incorporating RF Energy Harvesting for Satellite Communication Applications	ISRO Bangalore	15.04.2022	12,20,000	Under Review
02	CV	Dr. N. Vetrivel, Dr. Manu D S & Dr. Chandrasekaran	Development and validation of a methodology to improve quality of water for irrigation despite pollution/contamination of recharging water bodies in a given region	Ministry of Earth Science	27.07.2022	24,03,500	Under Review
03	ECE	Dr S.Kanithan	Wireless Communication from Underwater to the Air	NPOL	27.08.2022	10,00,000	Under process

# Progress highlights since last BOG Meeting

## Number of Proposals submitted:

SI.No.	Dept.	Faculty Name	Title	Agency	Date of Submission	Amount in Rs.	Status
04	ECE	Dr. Shima Ramesh Maniyath	3D Deep Convolution Neural Networks for Alzheimer's Disease Detection on MRI Images	SERB	28.09.2022	29,74,000	Under Process
05	ME	Dr. Rajesh Kumar P	Impact Detection Techniques Using Fiber Grating Sensors for aircraft wing structure	ARDB	08.09.2022	15,10,000	Under Process
06	AE	Prof.S.C.Gupta	Design & Development and Experimental Validation of Controlled Morphed wing Profiles for Maximum Range and Endurance Performance	ARDB	-	8,78,000	Project completed
07	AE	Dr.R.Rajasekar	Experimental estimation of stability derivatives for a structurally impaired aircraft	ARDB	-	8,57,000	In the verge of completion

# Progress highlights since last BOG Meeting

## Number of Proposals submitted:

SI.No.	Dept.	Faculty Name	Title	Agency	Date of Submission	Amount in Rs.	Status
08	AE	Dr.P.Arunagiri	Development of a novel jigless manufacturing process for aircraft structural assembly	ARDB	-	21,00,000	Under revision process
09	AE	Dr.P.Suresh	Design and development of landing gear assembly using DFMA and DFE concepts for enhancing sustainability and life cycle (revised proposal presented through online to S/SE panel)	ARDB	01.12.2022	9,51,000	Under revision process
10	AE	Dr.R.Vijayakumar	Design and Development of Complaint structures for Aircraft Applications (revised proposal submitted)	ARDB	14.07.2022	9,90,000	Under process

# Progress highlights since last BOG Meeting

## Number of Patents filed:

- Department of Aeronautical and Aerospace Engineering:
- Dr. P. Suresh filed a Patent on 'AI based control system of a vehicle drive unit' on 14th Jan 2023. The application no. is 202341002989.

## Department of Electrical & Electronics Engineering:

- Dr. Soumya Mishra filed a patent on 'Novel Techniques to Enhance the Wireless Sensor Network Efficiency Through Coverage and Energy Utilization Techniques' on 5th Jan 2023. The application no. is 202331001035 A. It is published on 20th Jan 2023.
- Dr. Soumya Mishra filed a patent on 'Deep Learning Based Technique to Predict the Impact of Residential Energy Storage System Modelling on Power System' on 15th Jan 2023. The application no. is 202331001035 A. It is published on 27th Jan 2023.

## Department of Mechanical Engineering:

- Dr. Santhosh N filed a patent on 'Composite Pavement Tile' on 2nd Dec 2022. The application no. is 202241069574 A. It is published on 9th Dec 2022.

# Progress highlights since last BOG Meeting

## Student's Achievements:

### Department of Aeronautical and Aerospace Engineering:

- Atyab Hakeem, D Devasurya, Pyush Jha, Asim Syed, Sripriya K, from Department of AE/AS have won a Second Prize and a cash prize of Rs.15,000/- for presenting the project in final round at National Aerospace Conceptual Design Competitions 2022 (NACDeC'2022) on "Water Scooping Amphibious Aircraft for Firefighting" Organized by IIT, Bombay and Design division of Aeronautical Society of India on 20th Sept 2022.

### Department of Civil Engineering:

- Amrutha K, final year student, of Civil Engineering, placed runners up in the VTU- Inter collegiate women's Kho-Kho tournament, Bangalore Division held on 30th to 31st Dec 2022.
- Amrutha K, final year student of Civil Engineering, placed second runners up in VTU state level women's Kho-Kho tournament held on 12th & 13th Jan 2023.

# Progress highlights since last BOG Meeting

## Student's Achievements:

### Department of Computer Science & Engineering/Artificial Intelligence & Machine Learning/Computer Science & Design:

- Preethi Susan , Nazia Sultana A, Mohammed Hussain, Mohammed Azeezulla, Mayank, final year students of Computer science Engineering are placed 1st Runner Up for presenting the idea- on 'Skin disease Analyzer' in Vision TechFest 2022- held on 13th Dec 2022

### Department of Electronics & Communication/Industrial IoT:

- Ankita, Ashok Bhargav P and Diya Roy, final year students of Electronics and Communication Engineering have won a Cash Prize of Rs.4000/- for participating in the event PRAVEGA 2022 conducted by IISc. Bangalore, co-sponsored by Airbus, held on 4th Sept 2022.

# Progress highlights since last BOG Meeting

## Student's Achievements:

Department of Computer Science & Engineering/Artificial Intelligence & Machine Learning/Computer Science & Design:

Khaleel U Rehman, Pre-final student of Electronics and Communication Engineering have won a Cash Prize of Rs.15000/- for National Level Electric Bike Design Challenge, held at Sri Ramakrishna Institute of Technology, Coimbatore.

- Priyanka Sharanabasappa M, 3rd semester student from Electronics and Communication Engineering have won 1st Runners-Up in VTU state level Kho-Kho women's tournament held on 12th Jan 2023 at BLDEA's, Vijayapura and got selected in University team to play national level tournament.
- Priyanka Sharanabasappa M, 3rd semester student from Electronics and Communication Engineering have won Runners-Up in VTU Inter Collegiate Bangalore Division Kho-Kho women's tournament held on 30th & 31st Dec 2022.



# Progress highlights since last BOG Meeting

## Student's Achievements:

### Department of Electrical & Electronics Engineering:

- Viswa, Pre-Final year student of Electrical and Electronics Engineering have won 1st prize and a Cash Prize of Rs.7,500/- for participating at National level Bike Design Challenge 2022 for Best Acceleration. Organized by Sri Ramakrishna Institute of Technology, Coimbatore held on 25th Sept 2022.
- Harsha Vikram T, Hemanth M, and Karan Kuttappa U A Pre-Final Year students of Electrical and Electronics Engineering have won 1st prize for participating at VTU North Division Hockey Tournament. Organized by VTU held on 10th Sept 2022.
- Harsha Vikram T, Hemanth M and Karan Kuttappa U A Pre-Final Year students of Electrical and Electronics Engineering have won 2nd Runner Up for participating at VTU Inter Zone State Level Hockey Tournament. Organized by VTU held on 7th Dec 2022.

# Progress highlights since last BOG Meeting

## Student's Achievements:

### Department of Information Science & Engineering/Data Science:

- Thrishul, Raveesha H and Venkatesh T S Pre-Final Year students of ISE have won VTU inter collegiate Hockey Tournament (Bangalore North division) held on 6th and 7th Dec 2022.

### Department of Mechanical Engineering:

- Veekshith K V, Sairam B, Shashank R, Final-Year students of Mechanical Engineering have won a Cash Prize of Rs. 7500/- for Acceleration test and a Cash Prize of Rs. 7500/- for Best Autocross of E Bike at National Level competition 2022, Organized by Sri Ramakrishna Institute of Technology, Coimbatore from 26th to 28th Sept 2022.

# Progress highlights since last BOG Meeting

## Students' Certification Courses

### Department of Aeronautical and Aerospace Engineering:

- Chandana B (7th Semester AS) has successfully completed the online NPTEL 12-Week course on "Space Flight Mechanics" conducted by IIT, Khargpur during July-October 2022.
- Sripriya K (7th Semester AE) has successfully completed the online NPTEL 8-Week course on "Introduction to Airplane Performance" conducted by IIT, Kanpur during July-Sept 2022.
- Naveen S S (7th Semester AS) has successfully completed the online NPTEL 8-Week course on "Introduction to Airplane Performance" conducted by IIT, Kanpur during July-Sept 2022.
- Sagarika S (7th Semester AS) has successfully completed the Massive open online course (MOOC) on "Basics of Remote Sensing", at Indian Institute of remote sensing (IIRS), Dehradun from 22nd Aug to 25th Nov 2022.
- Neha A K (5th Semester AS) has successfully completed the online NPTEL 12-Week course on "German I" conducted by IIT, Madras during July-Oct 2022.

# Progress highlights since last BOG Meeting

## Students' Certification Courses

### Department of Chemical Engineering:

- Prema Gowda (7th Semester CH) has successfully completed the online NPTEL 12-Week course on "Thermal Processing of Food" conducted by IIT, Guwahati during July-Oct 2022.
- Vaishnavi (7th Semester CH) has successfully completed the online NPTEL 12-Week course on "Dairy and food process and products technology, conducted by IIT Guwahati during July-Oct 2022.

### Department of Information Science & Engineering/Data Science:

- Tejas S (3 Semester-ISE) has successfully completed two weeks online certification course on "Basics of Python" conducted by Infosys during Oct 2022.
- Tejas S (3 Semester-ISE) has successfully completed the online certification course on "Python (Basic)" conducted by "Hacker Rank" during Oct 2022
- Sanjana Balasubramanya (3 Semester-ISE) has successfully completed two weeks online certification course on "Python (Basic)" conducted by "Hacker Rank" during Oct 2022

# Progress highlights since last BOG Meeting

## Faculty's Certification Courses

### Department of Aeronautical and Aerospace Engineering:

- Dr. P.Manikandan successfully completed the “Master trainer in Aeronautical Engineering” conducted by HAL Management Academy Bengaluru from 17th to 28th of Jan 2023

### Department of Chemical Engineering:

- S.Megala successfully completed the online NPTEL 12-week course on “Transport Phenomena” conducted by IIT, Kharaghpur during July - Oct 2022.
- S.Megala successfully completed the online course on “Introduction to Data Analysis using Microsoft Excel” conducted by Coursera Platform during July 2022.

# Progress highlights since last BOG Meeting

## Faculty's Certification Courses

### Department of Mechanical Engineering:

- Dr. Santhosh N successfully completed the online NPTEL 8-week course on "Accreditation and Outcome Based learning" conducted by IIT, Kharagpur during Aug 2022-Oct 2022.

### Department of Mathematics:

- S.Sudalaikani successfully completed the online NPTEL 12-week course on "ESSENTIAL MATHEMATICS FOR MACHINE LEARNING" conducted by IIT, Roorkee during July 2022-Oct 2022.

# Progress highlights since last BOG Meeting

## Outreach and Extension activities:

### Department of Aeronautical and Aerospace Engineering:

- Tamilselvam N Selected as one of the top five final contestants of the Saadhak Award presented by HAL management Academy Bangalore held on 21st Jan 2023. Organized by the HAL management for the research contribution towards the aeronautical industries.

### Department of Civil Engineering:

- Celebrated 55th Engineers Day on 15th Sept 2022, the resource person: Shri. Sankaran, Director, U R Satellite Centre, Bangalore.

### Department of Electrical & Electronics Engineering:

- Organized a session on Awareness program on 'Clean and Green Energy' held on 13th Dec 2022 at Govt. High School, Channasandra.

# Comparative Statement

Comparative statement showing Various Programmes Organized From 01.04.2022 to 02.07.2022 and from 03.07.2022 to 10.02.2023

Sl.no	Guest Lecture/Workshops conducted/ Industrial visits/Conferences organized/ Publications/ Papers presented/STTP/Club Activities/Funded Projects the	From 1st April 2022 to 2nd July 2022	From 3rd July 2022 to 10th Feb 2023
1	Poster presentation by students	01	01
2	Students Participated in competitions	01	13
3	Guest Lectures organized	10	29
4	Club Activities organized	06	19
5	Workshops conducted	04	11
6	International Conference Organized	01	---
7	STTP organized	02	03
8	Industrial visits organized	09	11
9	Papers Published by faculty members	06	23
10	Projects submitted to various funding agencies	06	10
11	Number of patents filed	00	04
12	Certification courses completed by students	00	11
13	Certification courses completed by faculty members	00	05
14	Outreach and Extension activities	00	03



## Progress Highlights since 2<sup>nd</sup> July 2022

Sl. No.	Dept	Intake	No. of teams won in competition	No. of students who obtained certification through certification courses	No. of faculty who obtained certification through certification courses	No. outreach activities/extension activities organized
1	AE/AS	120/60	1	5	1	-
2	CH	60	-	-	1	-
3	CV	60	2	-	-	-
4	CS	240	-	-	-	-
5	ECE	180	4	-	-	-
6	EEE	60	03	-	-	01
7	ISE	120	-	-	-	-
8	ME	60	2	-	1	-
9	AI & ML	60	-	-	-	-
10	DS	60	-	-	-	-
11	IIoT	60	-	-	-	-
12	CSD	60	-	-	-	-
13	PHY	-	-	-	-	-
14	CHE	-	-	-	-	-
15	MAT	-	-	-	1	-

# Progress Highlights since 2<sup>nd</sup> July 2022:

Sl. No.	Dept	Intake	FDP	Papers (Faculty)- UGC Journals	Papers (Faculty) – SCI Journals (Q1/Q2/Q3/Q4)	No. of Proposals submitted	Patents filed
1	AE/AS	120/60	-	-	3(Scopus)-Q3 1(Scopus)-Q2 1(SCI)-Q1	-	1
2	CH	60	-	-	2-Q1	-	-
3	CV	60	-	-	-	1	-
4	CS	240	-	1	1-Q2	-	-
5	ECE	180	1				-
6	EEE	60	-	-	1-Q1	-	2
7	ISE	120	-	-	-	-	-
8	ME	60		1	1-Q1 2-Q2 2-Q3	1	1
9	AI & ML	60	-	-	-	-	-
10	DS	60	-	-	-	-	-
11	IIoT	60					
12	CSD	60	-	-	-	-	-
13	PHY			6	-	-	-
14	CHE						
15	MAT	-	-	-	1- Q1, 1- Q2 , 1- Q4	-	-

## Progress Highlights since 2<sup>nd</sup> July 2022

Sl. No.	Dept	Intake	No. of Guest Lectures/seminars organized	No. of Industrial visits organized	No. of Workshops/ST TPS organized	No. of Dept. Club Activities	Conference organized
1	AE/AS	120/60	6	4	1	1	-
2	CH	60	2	-	-	-	-
3	CV	60	2	2	1	4	-
4	CS	240	3	-	2	4	-
5	ECE	180	3	2	5	3	-
6	EEE	60	3	3	3	2	-
7	ISE	120	2	1	-	2	-
8	ME	60	3	2	1	1	-
9	AI & ML	60	3	-	2	-	-
10	DS	60	2	1	-	2	-
11	IIoT	60					
12	CSD	60	3	-	2	-	-
13	PHY		2	-	-	2	-
14	CHE		1			2	
15	MAT		2	-	-	1	-

# Summary of budget and floor area of the proposed infrastructure in new campus

- Designed and planned to construct Ground floor + three floors.
- Provision is made to establish harnessing renewable energy sources, like wind and solar energy.
- A Effective utilization of rainwater (Rainwater Harvesting).
- Arboriculture (Green Campus)
- Circulation area 1.24 Lakhs Sq. ft, circulation area is taken as 70% of the built-up area.
- Built up area 4.88 Lakhs Sq. ft
- Total area (Built up area + Circulation area) 6.12 Lakhs Sq. ft
- We have taken the cost of construction per sq. ft = Rs. 2300/- Approximately
- Total cost involved = 88.75 Cr
- Total number of COE's planned to establish = 6

# Summary of budget and floor area of the proposed infrastructure in new campus

- Total classrooms = 20
- Total seminar hall = 6
- Total students' interaction hall = 2
- Boys hostel for UG = 200 rooms
- Boys hostel for PG = 100
- Hostel for research scholars = 50
- International hostel = 20
- Cafeteria
- Gold Guest House – 5 rooms
- Silver Guest House – 10 rooms
- Total land area utilized to build Infrastructure is 4.06 Acres of land area.
- Sewage Treatment Plant

**MVJ College of Engineering**

Near ITPB, Whitefield

Bangalore-560 067

M: [principalengg@mvjce.edu.in](mailto:principalengg@mvjce.edu.in)

P: +91 80 4299 1002

# Thank You