



ಬಿ.ಎಂ.ಎಸ್. ತಾಂತ್ರಿಕ ಮತ್ತು ವ್ಯವಸ್ಥಾಪನಾ ಮಹಾವಿದ್ಯಾಲಯ

**BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT**

(Autonomous Institution Under VTU)

Yelahanka, Bengaluru -560119

## Faculty Achievements – Department of Electronics and Communication Engineering

The **Department of Electronics and Communication Engineering (ECE)** at **BMS Institute of Technology & Management** is supported by a team of highly qualified, experienced, and research-active faculty members. Faculty achievements reflect excellence in **teaching, research, professional development, innovation, and academic leadership**. The department encourages faculty to continuously enhance their expertise through research publications, funded projects, professional society involvement, faculty development programs, and academic contributions at national and international levels.

Faculty members actively contribute to **research publications, sponsored projects, curriculum development, consultancy, professional societies such as IEEE**, and continuous upskilling through FDPs and workshops. These achievements significantly contribute to the department's academic strength, research culture, and student success.

### Research Publications and Scholarly Contributions

Faculty members of the ECE department regularly publish research articles in **peer-reviewed national and international journals** and present papers at reputed conferences. Their research spans diverse domains, including **signal processing, communication systems, VLSI, embedded systems, biomedical engineering, AI/ML, and other multidisciplinary areas**. These scholarly contributions enhance the department's research visibility and academic reputation.

### Sponsored Research, Grants, and Consultancy

ECE faculty actively pursue **funded research projects** from government agencies, professional bodies, and institutional funding schemes. Faculty members also guide students in externally funded projects supported by **IEEE initiatives** and other organizations. Consultancy activities undertaken by faculty help bridge the gap between academia and industry while providing practical exposure to students.

### Professional Development and Faculty Training

Continuous professional development is a key focus area of the department. Faculty members regularly participate in **Faculty Development Programs (FDPs), workshops, seminars, short-term courses, and certification programs** organized by IITs, NITs, professional bodies, and reputed institutions. This ensures that teaching methodologies and technical knowledge remain aligned with current industry and academic trends.



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### Two ongoing funded research projects

Adaptive motor imaginary-based brain-computer interface	VGST GRE: 40 Lakhs
Fabrication of low-cost $\text{Cu}_3\text{BiS}_3/\text{ZnS}$ based thin film solar cell using ultrasonic spray pyrolysis	DST-SERB: 18.3 Lakhs

### Faculty Publications

No. of SCI Journals	32
No. of Scopus-Indexed Journals	60
No. of peer-reviewed conference papers published	90
No. of books/book chapters published	59

### Faculty as Resource Person/Participants in STTPs/ FDPs & Faculty internship/training/collaboration details

Academic Year	Number of Faculty members as Resource Person	Number of Faculty members Participated in FDP/STTP
2023-24	16	28
2022-23	12	30
2022-21	04	25

Faculty undergone Industry Internship Training

28



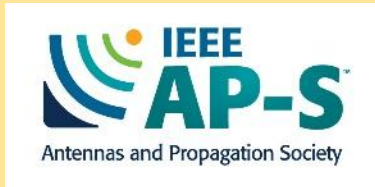
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## Professional Society Membership and Leadership

Faculty members actively contribute to professional bodies such as **IEEE, ISTE, IETE, and other technical societies**. They serve as reviewers, session chairs, organizing committee members, and resource persons for conferences, workshops, and seminars. Such involvement strengthens the department's professional network and provides students with exposure to global technical communities.



9 IEEE Technical societies exclusively with the ECE faculty members as Advisors



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Sl.No.	Name of the Professional Societies/Bodies,
1	IEEE, Antenna and Propagation Society
2	IEEE, Communication Society
3	IEEE, Robotics and Automation society
4	IEEE, Aerospace and Electronic system Society
5	IEEE, Photonics Society
6	IEEE, Engineering in medicine and Biology Society
7	IEEE Microwave Theory and Technology Society
8	IEEE Signal Processing Society
9	IEEE Circuits and Systems Society (CAS)
10	IEEE Computational Intelligence Society (CIS)
11	IEEE Computer Society
12	IEEE Information Theory Society (ITS)
13	IEEE Power & Energy Society (PES)



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Sl. No.	Name of the Professional Society /Body at National and International Level	No. of Membership
1	IEEE	13
2	IE(I)	02
3	IETE	11
4	IUPRAI	02
5	ACCS	01
6	ISTE	17
7	BMESI	05
8	AMSI	02
9	VSI	02
10	MRSI	02
11	IEI	03
12	CSI	06
13	IMAPS	01
14	ACM	01
15	IEEE Photonic Society	02
16	ISSS	02
17	ISSE	01
18	IAENG	01
19	ISCA	01
20	IEICE	01
21	CE	01
22	TISCA	01
23	SESI	01



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Sl.No.	Name of the Professional Societies/Bodies, Chapters, Clubs
1	E-Yantra Robotics club
2	IETE Society
3	ISTE Chapter
4	Mathworks Chapter
5	BMESI-Biomedical Engineering Society of India
6	Rotaract Club
7	Cultural Club

Sl. No.	Sample Events conducted
1	Coding club-Uncovering riddleX
2	IEEE, EMBS-Laser MAze
3	IEEE,Robotics and Automation society-Summer of projects
4	IEEE , Antenna and Propagation Society-Mission spectrum
5	E yantra-DIFACTO Robotics and Automation
6	Project exhibition-Anveshana- leading to innovation and Entrepreneurship



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## Awards, Recognitions, and Academic Roles

ECE faculty members have received **recognition for academic excellence, research contributions, and institutional service**. They serve in various academic roles such as **BoS members, academic coordinators, research supervisors, NBA/NAAC coordinators, and examination-related responsibilities**, contributing significantly to institutional governance and quality assurance.



Dr. Saneesh Cleatus T has been awarded outstanding professional volunteer of IEEE Signal Processing Society, Bangalore.



Dr Asha G H received a fund of 5000 USD from prestigious IEEE EMBS to execute a biomedical research project



Dr. Dankan Gowda listed in consecutively twice in Stanford top 2% scientists: Rank 246435





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Dr. Vijayalakshmi G V is serving as academic editor for PLOS ONE Journal



Dr. Sabina Rahaman is the member of the editorial board of "Scientific Reports"



Dr. Mamtha K R - Granted Indian Patent for automated waste segregation system using ANN



Dr. Anitha V R has been invited as Chapter Officer and Advisor from IEEE MTTs to attend "Chapter Chair Meeting at the IMS international Conference" in San Francisco with financial support of 2250 dollars

Dr. Anitha V R has been selected for idea and prototype exhibition at India Mobile Congress (Asia's Premier Digital Technology Event), New Delhi

Dr. Anitha V. R. presented a 6G project proposal to the Hon'ble Minister Shri Jyotiraditya M. Scindia during VTU TCOE VRIF Inauguration







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Dr. Saneesh was in the organizing committee of 50<sup>th</sup> ICASSP (IEEE Signal Processing Society's Flagship Conference)

## Faculty Contribution in the Development of SWAYAM MOOCs and other E-Content

Name of the Faculty	Name of Course	Weblink
Dr. Satheesh Kumar P	Electrical Machines I (Translation)	-
Dr. Surekha R Gondkar	Basic Electronics	<a href="https://www.youtube.com/watch?v=pN3Rkize_uk">https://www.youtube.com/watch?v=pN3Rkize_uk</a>
Dr. Vijayalakshmi G V	Digital Signal Processing	<a href="https://www.youtube.com/watch?v=IdeEFyQCFCM">https://www.youtube.com/watch?v=IdeEFyQCFCM</a>
Dr. Rashmi N	Network Theory	<a href="https://www.youtube.com/watch?v=itfoDPapRtQ">https://www.youtube.com/watch?v=itfoDPapRtQ</a>
Dr. Suryakanth B M	Basic Electronics	<a href="https://www.youtube.com/watch?v=D7BZMhxq9UI">https://www.youtube.com/watch?v=D7BZMhxq9UI</a>



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Dr. Saneesh Cleatus	Electromagnetic Waves	<a href="https://www.youtube.com/watch?v=Q6mC9GUwYbg">https://www.youtube.com/watch?v=Q6mC9GUwYbg</a>
Dr. Rashmi N	Network Theory	<a href="https://www.youtube.com/watch?v=voYRIrztvjs">https://www.youtube.com/watch?v=voYRIrztvjs</a>
Dr. Rashmi N	Network Theory	<a href="https://www.youtube.com/watch?v=0rhq7btcIGo">https://www.youtube.com/watch?v=0rhq7btcIGo</a>
Dr. Vijayalakshmi G V	Basic Electronics	<a href="https://www.youtube.com/watch?v=14OWb9ItOKQ">https://www.youtube.com/watch?v=14OWb9ItOKQ</a>
Prof. Chandraprabha	Basic Electronics	<a href="https://www.youtube.com/watch?v=HO746bkysac">https://www.youtube.com/watch?v=HO746bkysac</a>
Dr. Dankan Gowda V	Network Theory	<a href="https://www.youtube.com/watch?v=0CmzWtD_HZU">https://www.youtube.com/watch?v=0CmzWtD_HZU</a>
Dr. Dankan Gowda V	Network Theory	<a href="https://www.youtube.com/watch?v=Annv_8PTVro">https://www.youtube.com/watch?v=Annv_8PTVro</a>
Dr Anitha V R	Electromagnetic Waves	<a href="https://www.youtube.com/watch?v=CbG66hmxVgg">https://www.youtube.com/watch?v=CbG66hmxVgg</a>
Dr. Saneesh Cleatus	Electromagnetic Waves	<a href="https://www.youtube.com/watch?v=dg9f120FAQQ">https://www.youtube.com/watch?v=dg9f120FAQQ</a>
Dr. Hanumantharaju	Electronic Devices	<a href="https://www.youtube.com/watch?v=bFYrYQVctYQ">https://www.youtube.com/watch?v=bFYrYQVctYQ</a>
Dr Saneesh Cleatus	8051 Microcontroller	<a href="https://www.youtube.com/watch?v=7apc1DWYQmw">https://www.youtube.com/watch?v=7apc1DWYQmw</a>
Dr. Jagannath KB	VLSI	<a href="https://www.youtube.com/watch?v=KdZNoEXpl8w">https://www.youtube.com/watch?v=KdZNoEXpl8w</a>

### Number of Faculties Completed the MOOC Courses Offered by Different Agencies

- SWAYAM NPTEL: 14
- UDEMY: 05
- Institute Innovation Council: 01
- Coursera: 01
- Awards: 01

### Faculty Members Involved in Innovative Projects (2023-24)



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Sl. No.	Name of the Faculty	Name of the Event	Place of Event
1	Dr. Vijayalaxmi G V	National Level Project competition at RIT	Ramaiah Institute of Technology, Bengaluru
2	Dr. Vijayalaxmi G V	KSCST fund	IISC Bangalore
3	Dr. Vijayalaxmi G V	PROTATVA-2024	RV Institute of Technology and Management, Bengaluru
4	Dr. Vijayalaxmi G V	State level Project competition2024	Sai Vidya Institute of Technology, Bangalore
5	Dr. Vijayalaxmi G V	Aavishkar 2024 (National Level Intercollegiate Project Exhibition and Competition)	S J C Institute of Technology, Bangalore
6	Dr.Anitha V R	Pragathi 2.0	BMS College of Engineering, Bangalore
7	Dr.Anitha V R	SPARK 2K24	Dayanand Sagar Academy of Technology and Management, Bangalore
8	Shilpa Hiremath	SPARK 2K24	Dayanand Sagar Academy of Technology and Management, Bangalore
9	Dr. Raghunandan G H	IEEE R10 robotics competition	Amrita College of Engineering, Bangalore
10	Dr. Raghunandan G H	SRISHTI 2024	Atria College of Engineering, Bangalore
11	Dr. Raghunandan G H	Line following bot competition	Sir M. Visvesvaraya Institute of Technology, Bangalore
12	Dr. Anil Kumar D	1st International Conference on Emerging Science and Engineering	Akshaya Institute of Technology, Tumkur
13	Dr. Anil Kumar D	1st International Conference on Emerging Science and Engineering	Akshaya Institute of Technology, Tumkur
14	Dr. Anna Merine George	National Students Energy Summit 2024 (NSES 2024)	Manipal Institute of Technology, Bangalore
15	Dr. Deepa Reddy	ICAIMLAEST-2023 Conference	R L Jalappa Institute of Technology, Bangalore



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16	Dr. Anitha V R	National Students Energy Summit 2024 (NSES 2024)	Manipal Institute of Technology, Bangalore
17	Dr. Dankan Gowda V	International Conference on Artificial Intelligence for Innovations in Healthcare Industries	Shri Shankaracharya Institute of Professional Management and Technology, Raipur, Chhattisgarh, India
18	Dr. Mallikarjuna Gowda. C.P & Dr. Saritha I G	KSCST fund	IISC Bangalore
19	Dr. Thejaswini. S & Dr. Sumathi. M. S	KSCST fund	IISC Bangalore

### Faculty Members Involved in Innovative Projects (2022-23)

Sl. No.	Name of the Faculty	Name of the Event	Place of Event
1	Dr. Vijayalaxmi G V	National-level Project competition	Ramaiah Institute of Technology, Bengaluru
2	Dr. Rashmi N	E Yantra Symposium IIT Bombay	IIT Bombay
3	Dr. Saneesh C T	KSCST	IISC Bangalore
4	Dr. Ambika R	KSCST	IISC Bangalore
5	Dr. Saneesh C T	9th Annual Conference of Cognitive Science (ACCS9)	IIT Delhi
6	Dr. Dankan Gowda V	2023 8th International Conference on Communication and Electronics Systems (ICCES)	PPG Institute of Technology, Coimbatore, India.
7	Dr. Dankan Gowda V	2023 4th International Conference for Emerging Technology (INCET)	Jain College of Engineering, Belgaum, India
8	Dr. Banuprakash R	KSCST	IISC Bangalore

### Faculty Members Involved in Innovative Projects (2021-22)

Sl. No.	Name of the Faculty	Name of the Event	Place of Event
1	Dr. Anitha V R	KSCST	IISC Bangalore



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2	Dr. Vijayalaxmi G V	National Project Competition BioMedTechnophilia 1.0	BMS College of Engineering, Bangalore
3	Dr. Vijayalaxmi G V	SRISHTI-2022 (PROJECT EXPO BASED ON IR4)	BMS College of Engineering, Bangalore
4	Hamsavahini R	KSCST	IISC Bangalore
5	Dr. Saneesh C T	9th Annual Conference of Cognitive Science (ACCS9)	IIT Delhi
6	Dr. Dankan Gowda V	2022 6th International Conference on Electronics, Communication and Aerospace Technology	RVS Technical Campus, Coimbatore, India
7	Dr. Banuprakash R	VTU Sponsored student project	VTU

## Faculty Publications:

S.No.	Item	2023-24	2022-23	2021-22
1	No. of SCI Journals	14	10	08
2	No. of Scopus-Indexed Journals	23	20	17
3	Other Peer-Reviewed Journals	03	00	01
4	No. of Peer-reviewed conference papers published	48	20	22
5	No. of books/book chapters published	27	21	11

Patents: S.No.	Item	2024-25	2023-24	2022-23
1	No. of Patents Published	4	5	1
2	No. of Patents Granted	2	4	2