



TELECOMBAT

2nd National Level Project Contest

11th May 2019

Organized by

Department of Telecommunication Engineering

In association with

IEEE-BMSCE Student Chapter

TELECOMBAT FLYER



BMS COLLEGE OF ENGINEERING
Department of Electronics & Telecommunication Engineering
presents



TELECOMBAT The 2nd National Level Project Contest

Under IEEE BMSCE Student Chapter

Event Date: 11th may, Venue: Department of E & TE

Tracks:

- A: Hardware Project (No Processor)
- B: Hardware Project including Processor
- C: Project based on Simulation Tools

Open to ECE,EEE,E&T, ML and E&I Depts.

Last date to submit the Abstract of Project/Model: 1st may 2019

Team Size : 2 to 4 members

Rs 500 for IEEE Members

Fee : 600/- per team

RSVP: Dr. Prasanna Kumar M K

✉ Telecombat@bmsce.ac.in

Student Coordinator : Abishek Y ☎ : 8050826524

: Arvind P ☎ : 7026783434



Best two projects in each track take home CASH PRIZES up to 25,000/- per track

REGISTER NOW!

For more details



For Registrations:

TELECOMBAT BROCHURE

2nd National Level Project Contest

Registration form

Please click on the Link below

Faculty Coordinators

Dr Rajeshwari Hegde

Dr Prasanna Kumar M K

Email: Telecombat@bmsce.ac.in

Student Coordinators

Abishek .Y, Student Coordinator
Ph No – 8050826524.

Arvind.P, Student Coordinator
Ph. No - 7026783434

Advisory Committee

Dr B V Ravishankar
Principal, BMSCE

Dr Ravishankar Deekshit
Vice-Principal, BMSCE

Anand M
Senior Research Engineer, C-DOT

Vinay Rao
Technical Lead, CISCO, Bangalore

Abhiram K S
Application Engineer, Keysight
Technologies

Organizing Committee – Faculty

Anusha Lalitha

Ambika k

Archana k

B. Kanmani

Balachandra K

P S Gowra

C Gururaj

K P Pushpavathi

Manjunath P S

Shreenivas B

N Srinivas Rao

M Vasanth lakshmi

Organizing Committee – Students

Dharmaraj (1BM17TE404)

Teja Babu (1BM17TE411)

Rakesh R (1BM17TE409)

Kiran K V (1BM17TE407)

Kalyan N (1BM18TE405)

Nandeesh M (1BM18TE407)



"Projects we have completed demonstrate what we know - future projects decide what we will learn."

— Dr Mohan Tiwana

BMS College of Engineering

Department of
Electronics & Telecommunication Engg.

Organizes



TELECOMBAT

2nd National Level Project Contest

(Under IEEE BMSCE Student Chapter)

11th May 2019

Venue: Dept. of E & TE

About the College

BMS College of Engineering was founded in the year 1946 by Late B M Sreenivasaiiah, and nurtured by his illustrious son, Late B S Narayan. BMSCE is the first private sector initiative in Engineering Education in India. BMSCE is in the field of Engineering Education over 7 decades of dedicated service. BMSCE today offers 13 Under Graduate & 16 Post Graduate courses, both in conventional and emerging areas. At present, 15 Departments are recognized as Research Centers offering PhD/MSc Engineering by Research in Science, Engineering, Architecture and Management. First Institution in the state bestowed with NBA Accreditation in Tier I Format (Washington Accord). World Bank funded TEQIP Phase I and Phase II Institute and Partner Institution of the Melton Foundation, USA which advocates Global Citizenship. Autonomous Institute (UGC approved) since 2008.

About the Department

The department of Telecommunication Engineering established in the year 1988 offers four year Under Graduate program. The department was accredited by NBA for five years under Tier-I. The department has successfully implemented four AICTE-MODROBS projects and one AICTE-IIPC project. With a view to increase Industry-Institute-Interaction, the department has signed

MOUs with National Instruments and Stellapps Technologies for enabling students to carry out internship, implement projects, and pursue research. Research carried out in the department has resulted in over 74 Peer-Reviewed Journal publications, 205 International Conference publications and 37 National Conference publications. The quality of the students is reflected in good on-campus/off-campus recruitments together with their securing admissions for higher education in prestigious Universities in India and abroad.

About the event

Global problems of today need to have global solutions being developed in a distributed manner worldwide. The global problems have so deeply rooted in terms of its criticality, imminence and rate of growth that nominal solutions are unable to provide sustainable solutions. Coincidentally, ample infrastructure for realizing innovative solutions is affordable through governmental agencies, institutional support, R&D establishments and corporate CSR with no significant effort and cost. However, amidst such congenial ecosystem, innovative minds and their nurturing are at scarce and manifests as a show stopper in the process of realization of solutions. As such, nurturing young minds to appreciate complex problems and to think of innovative solutions either to alleviate prevalent problems or to improve the quality of life become the

responsibility of technical institutions. Solutions devised, specifically, to address prevalent solutions are, specially, treated as projects for community services. Innovations under technology banner hovers, to a great extent, on electronics, telecommunications, networking, computer science and information technologies.

Registration

The registration fee for IEEE members is Rs 500 and non IEEE members is Rs 800/- per team. In order to participate, submit 500 words abstract to telecombat@bmsce.ac.in, no later than 1st May 2019.

The registration fee is to be paid to the account given below through NEFT only.

HOD –Telecommunication
Bank-Allahabad Bank
Account number- 20274184938
IFSC Code-ALLA0212011
Branch : Hanumanthnagar

Themes

Best three projects in each of following categories will be awarded with cash prizes

Projects implemented

1. with Processors
2. with Simulation tools
3. without processors

Rules

No. of students per team is restricted to 2-4. No individual project will be entertained.

About the contest

On 11th of May 2019 2nd national level project contest “**Telecombat**” was organized by the Department of Telecommunications Engineering, BMSCE, under IEEE student chapter. This contest was an effort to bring together young engineering minds across the country to exchange and showcase their innovative ideas developed as projects making use of latest trends in technology. The event was well received by colleges from various engineering colleges of the nation with an overall participation of 45 teams. This event provided a platform for institute and industry interaction and also helped students to get first hand feedback from experts and researchers. The projects presented in the conference encompassed a wide horizon with topics like signal processing, communication, VLSI, sensors, Artificial Intelligence and many more. The contest was broadly divided into three tracks based on the area of application. The first track included projects in the domain of Electronics, with the second track enclosing projects from Smart systems and the third track had projects from Communication and Signal processing domain. There were efforts to give possible solutions to today’s real problems. The organizing committee comprising of faculty and students ensured that the event was organized in a smooth manner from designing the brochure, to advertising, shortlisting of projects; hospitality till the event was successfully completed. The event was concluded with entertaining cultural events from the students of Telecommunication department and last but not the least distribution of the prizes.

The project contest was judged by three alumni from the department of Telecommunication and three faculty members from the department of Electronics and communication.

Short biography of the judges

VinayRao holds BE degree in Telecommunication Engineering from BMSCE and MS in Computer Network Engineering from North Carolina State University, USA. He is currently working as a Technical Lead at Cisco. He is heading the test automation and tooling efforts for the platform team which builds a PaaS (Platform as a Service) solution for applications to get deployed on. He worked at Nuage Networks before this and was working on the Openstack solutions for Nuage.

Abiram K S holds BE degree in Telecommunication Engineering from BMS College of Engineering. He worked as Hardware Design Engineer at Seagate Technology from 2015-2018. He was part of the R&D team responsible for the development of Solid State Drives. He worked on the Design and Validation of SATA/NVMe based SSDs. He was given the additional responsibility of leading the “Failure Analysis” team. He was chosen as the “Seagate Brand Ambassador” – a position given to 30 Seagate Employees worldwide and he was the only one from India. Currently he is working as application Engineer at Keysight Technologies. He is part of the Application Engineering team focused on High Speed Digital and Photonics. He helps product teams in companies such as Intel, Qualcomm, Sandisk, Cadence and others to create comprehensive plans to validate cutting edge next generation product prototypes, identify test challenges and improve efficiency of test setups.

Manoj Desai holds BE degree in Telecommunication Engineering from BMS College of Engineering. He worked as Associate software Engineer at Robert Bosch Engineering and Business Solutions Ltd from 2014- 2017. He is currently working as a data scientist at Centillion Research Bangalore

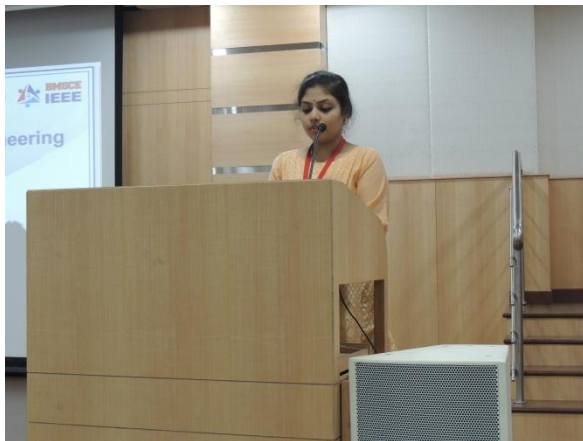
Registration

The registration for the event was done online from 20th April 2019 till 6th May 2019. On the day of the event students arrived at the venue starting from 8 am and the registration of candidates was checked by Smt. Saritha and Smt. Bhagyalakshmi, staff, department of Telecommunication. Registration was followed by the inaugural at the BMS Auditorium 1, Platinum Building.



Inauguration

The complete event was hosted by M Komala from the second year, Telecommunication department. The event was inaugurated by seeking the blessing of the lord with an invocation from Rachita of first year Telecommunication engineering. The inaugural function was graced by BMSCE Principal Dr. B V Ravishankar and Vice Principal Dr RavishankarDeekshit, B Kanmani, HOD department of TE and the judges. Faculty and Staff department of TE organized and supported the event and was witnessed by students from various engineering colleges. The event was given a start by lighting of the lamp. Once the Dr. Rajeshwari Hegde, faculty Telecommunication engineering, welcomed the principal, vice principal, judges, faculty and students, the importance of the event was highlighted by Shikha N, first year student. Anmol Agarwal, third year student introduced the participants to the official Telecombat website. The inaugural event was concluded with Vote of thanks delivered by Dr Prasanna Kumar. The entire faculty, staff, students, volunteers, BMS management, IEEE student chapter and everyone associated with the event and made it happen were thanked.



The event hosted by M Komala, student of Telecommunication



Invocation by Rachita, student of Telecommunication



Lighting of the lamp



Welcome address by Dr
RajeshwariHegde



Welcome to Principal



Welcome to Vice Principal



Welcome to Alumni and Judge VinayRao



Welcome to Alumni and Judge Abhiram



Presidential address by Principal. Vice Principal wishing for the success of the event. He advised students to make constant learning and how one needs to be on their toes to meet the ever increasing challenges of the world. optimum use of such platforms to interact with the outside world.



Introduction to Telecombat website by Anmol Agarwal, Student. Official Vote of thanks by Dr Prasanna Kumar

The projects in all the three tracks are discussed in detail next. Each track had two jury members, one faculty from the department of Electronics and Communication Engineering, BMSCE and an other being alumni from the department of Telecommunication Engineering. The evaluation of the project was done based on the rubrics for 50 marks. The evaluation rubrics were shared with the participants by the jury members before the commencement of the evaluation. Each group was allotted a time of 15 minutes to demonstrate their projects and for Q & A. From each track two best projects were selected and suitably rewarded. Each group also had a project under the special mention category that impressed the judges.

Track-1:Electronic applications

Judges for the Track: Dr. K P Lakshmi, Faculty ECE

and Mr. Manoj Desai, Alumni & Data scientist at Centillion Research

There were participants from various engineering colleges and 15 groups registered under this track. The titles of the projects registered under this group are as specified below:

TRACK 1: ELECTRONIC APPLICATIONS					
Sl.no.	Project ID	Name	College	Branch	Project Title
1	T1-1	Akash R Kathavate PranavBharadwaj Sandarsh MK	BMSCE, Bangalore	TE	Design of a layer 2 Digital Switch
2	T1-2	SanchitaVishwa Harsha Ramesh RadhikaRavikumar	BMSCE, Bangalore	TE	Home automation using FPGA controller
3	T1-3	Haritha M K TanmaySaiSrinivas	BMSCE, Bangalore	TE	Prediction of cardiac arrest using biosensors
4	T1-4	Nandeesh G K Ranjith M Y Ujwal U Spandana D Y	BMSCE, Bangalore	TE	Self-balancing scooter
5	T1-5	Nagayashash T N Abhishek G Deepak Venkatappa	BMSCE, Bangalore	TE	Cell phone detector and jammer
6	T1-6	Nischitha R Anagha Lakshmi H Aishwarya S	BMSCE, Bangalore	TE	Emergency Belt For Women's Safety
7	T1-7	SnehaBhat Tejesh V Prathibha V	BMSCE, Bangalore	TE	Design and implementation of embedded systems in military applications
8	T1-8	D M SushanthaA VidyaBhushana KavyaGowda L A Namitha U Thejaswini K S	SJC INSTITUTE OF TECHNOLOGY	ECE	CLOAK ROBOT FOR HIGH-END MILITARY APPLICATIONS
9	T1-9	Nishkala U PapiyaMandal	GSSS Institute of Engineering	TE	Haptic based Virtually

		Preethi K S Ranjitha N	& Technology for women.		Controlled Robotic arm.
10	T1-10	Suhas S Shrilakshmi S Neginahal Nishith K Vasishta Nikhil Sharma B	K. S. School of Engineering and Management	ECE	Self Adjustable Speed limiter
11	T1-11	Pranav Atishek Dhimanth Nischal	DayanandaSa gar College of Engineering	ECE	Non-contact Airborne Ultrasound Tactile Display
12	T1-12	Baishnavsingh Alisha verma Amruthaanand Adityavaibhav	JSSATEB	ISE	SPEED BREAKER DETECTOR RC CAR
13	T1-13	Raghavendra S Narsapur Basavaraj P Hiremath Manjunath K G	Bapuji institute of engineering and technology Davangere	ECE	A novel approach on ceiling fan based system to avoid suicide by hanging
14	T1-14	Akhila R Jeevitha L Roopa HV	BMSCE, Bangalore	TE	Autonomous cleaning bot
15	T1-15	Ankit Shree AshishJavaji VoletiNagavenkataSriramKo ushik SurajBeragu	DayanandaSa gar College of Engineering	ECE	Set-Top Box using Consumer Electronics Control

There were two jury members for the evaluation of the projects, Dr. K. P. Lakshmi, Professor, Department of Electronics and the Communication engineering, BMSCE and alumnus from the Department of Telecommunication, Mr. Manoj Desai.







The first prize from the track was the project based on the title “Non-contact Airborne Ultrasound Tactile Display” from the DayanandaSagar College of Engineering, Bangalore



The second prize was for the project titled ” Set-Top Box using Consumer Electronics Control” again from the DayanandaSagar College of Engineering, Bangalore



The special mention project was “Design of a layer 2 Digital Switch” from the Telecommunication Department, BMSCE, Bangalore

Track Co-ordinators: M VASANTHA LAKSHMI and SARITHA

Track-2:Smart Systems

Judges for the Track: Dr.M.N. Suma, Faculty ECE

and Mr. Abhiram K S, Alumni & Application Engineer at Keysight technologies

The theme of the track-2 was "Smart Systems". Students from various engineering colleges registered under this track and there were 15 teams in all. The titles of the projects registered under this group are as specified below:

Track-2: Smart Systems					
Sl.no.	Project ID	Name	College	Branch	Project Title
1	T2-1	Rushingwa Divin Jasmine shrestha	BMSCE, Bangalore	TE	Hand Gesture Controlled Wheelchair
2	T2-2	Vinay s vasisht Swaroop Joshi Shreedhar Shashidhar	BMSCE, Bangalore	TE	Eye tracking mouse
3	T2-3	Chetan M Hatti Vinay Kumar Vinay H S Chiranjeevi	BMSCE, Bangalore	TE	Smart onboard Transportation management system
4	T2-4	Bharath S Praneeth RH Tejesh M	BMSCE, Bangalore	TE	Customer experience enhancement using Artificial Intelligence
5	T2-5	Amulya Krishnai Bhanupriya Riyasri	BMSCE, Bangalore	TE	Smart Parking Management system
6	T2-6	Adil Abdul Ahad Momin Mukulupadhay Sumit Shrey	BMSCE, Bangalore	TE	Smart Helmet module
7	T2-7	Arjun A Aravind Kumar S M Prakash Akshay R	GLOBAL ACADEMY OF TECHNOLOGY	ECE	SMART BIKE
8	T2-8	K M Bharath Harshitha A	Global academy of technology	ECE CSE	SMART FARMING
9	T2-9	Mohammed Arshad Amthul Nusrath M K Almas	HKBK COLLEGE OF ENGINEERING	ECE	Envision Pentaxis organ Printer

		khalidHussain Mohamed Salman			
10	T2-10	Yadav S V Bharath T V Pooja P M	M S engineering college	ECE	Smart system for early detection of fish kills and preventions
11	T2-11	Sambhav Jain Sushanth D Varsha Vijetha N Bhat	Ramaiah Institute of Technology	EIE	Smart glove to aid the visually impaired
12	T2-12	Dheeraj S E Lathif Sharieff Kishan G Rohith G Adiga	Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY	TE	SMART PARKING CONTROL SYSTEM USING ARM7
13	T2-13	Parikshith M Sanjay A Supreeth R Surya Embar	Siddaganga Institute of Technology	ECE	Voice enabled Automation and Car Security System
14	T2-14	Chandana S Janitha P L Nikitha J	M S Engineering College	ECE	Smart System Detection of Cervical Cancer using PSoc Creator.
15	T2-15	Rakshitha B S BinduShreePatil Harshitha K	M S Engineering	ECE	Smart Charging Facility for Electric Vehicle.

The two jury members were Dr. M. N. Suma, Professor from the department of Electronics and the Communication Engineering, BMSCE and the external jury member was Mr. Abhiram K S, Application Engineer, Keysight technologies, also an alumni of the Telecommunication Department, BMSCE.

Moments from Track-2



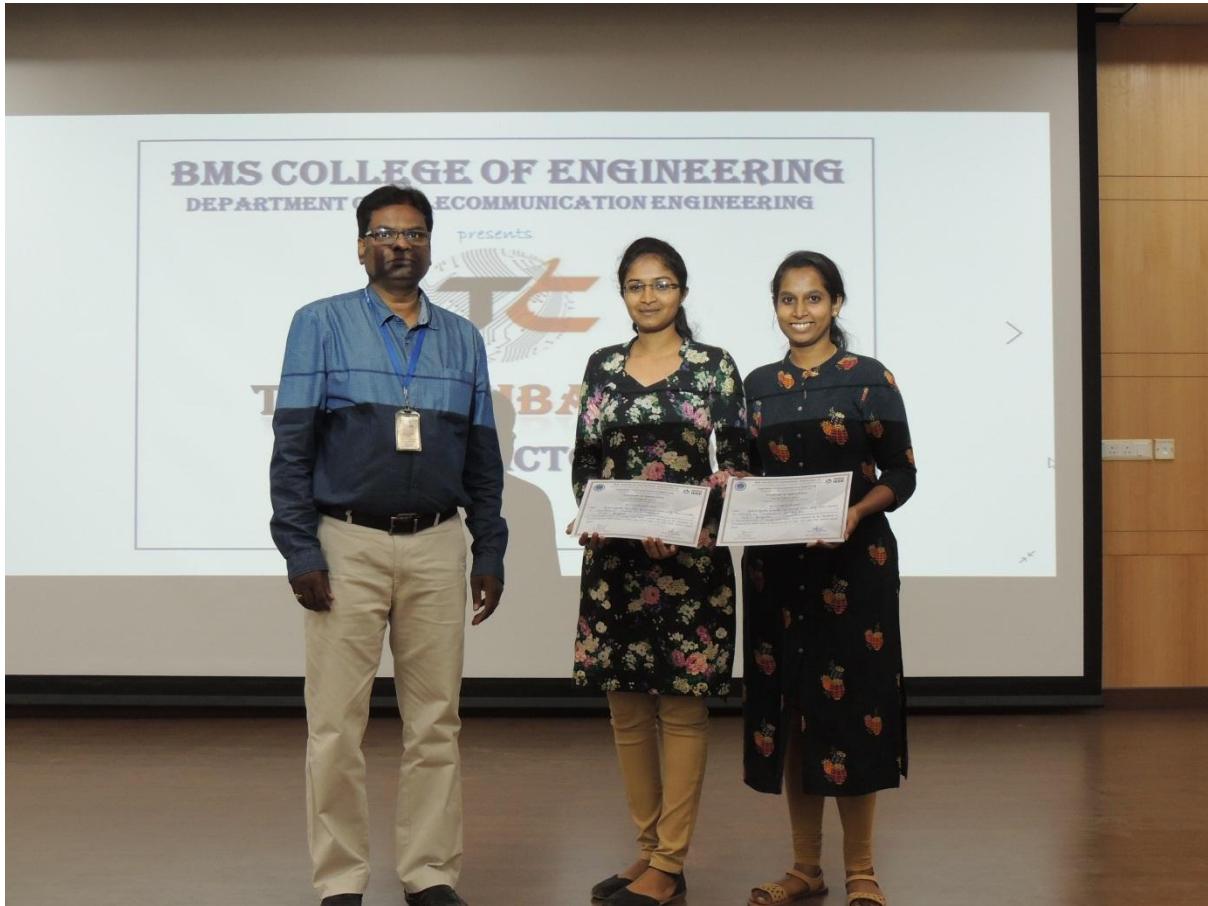


FIRST PRIZE



The first prize from the track was the project titled "Envision Pentaxis organ Printer", . Mohammed Arshad, AmthulNusrath M K, Almas khalidHussain, Mohamed Salman, HKBK College of Engineering.

SECOND PRIZE



The second prize was for the project titled, "Smart System Detection of Cervical Cancer using PSoc Creator", Chandana S, Janitha P L, Nikitha J, M.S.College of Engineering.

The special mention project was "Smart glove to aid the visually impaired" from MS Ramaiah Institute of Technology, Bangalore.

Track Co-ordinators: K P PUSHPAVATHI and SHAMALA BHAT

Track 3- COMMUNICATION/IOT/SIGNAL PROCESSING:

Judges for the Track: Dr.GeethiShree Mishra, Faculty ECE

and Mr. Vinay Rao, Alumni & Technical lead at Cisco

Telecombat-The 2nd national level project contest was conducted at BMSCE, Bangalore on 11/05/2019 under IEEE BMSCE Student Chapter. Students from different colleges of Bangalore and BMSCE showcased their projects under Track 3- COMMUNICATION/IOT/SIGNAL PROCESSING. The projects were judged by Mr.VinayRao, Alumni & Technical Lead at Cisco, Bangalore and Dr.Geethishree Mishra, Faculty BMSCE/ECE. T.Anushalalitha, Faculty/TCE and Shamala, Lab Instructor co-ordinated the event with two student volunteers. There were 15 projects presented and demonstrated on various topics at L503 and two projects were selected for the First and second prize and a third one getting special mention. All the project presentations and interactions were videographed. The following is the list of projects under Track 3.

TRACK 3: COMMUNICATION/IOT/SIGNAL PROCESSING					
Sl.no.	Project ID	Name	College	Branch	Project Title
1	T3-1	Y Shashikiran ArunAthreya s G Subodh V Manvi Sumukha Sharma T C	BMSCE, Bangalore	TE	Intersection collision warning system using VANETS
2	T3-2	Arpita Christina R Chethana Y Yashaswini G Jeevitha G N	BMSCE, Bangalore	TE	Hybrid mesh/star network for power optimization in IOT
3	T3-3	Akshatha.N K.Harishree. J.Rai Rachita Ramesh	BMSCE, Bangalore	TE	Achieving fault tolerant networks using inter cluster Migration of VMs
4	T3-4	Hrushikesh Deshpande KeertanaKa mesh Navya Shree	BMSCE, Bangalore	TE	Setting up and functional verification of a VPN
5	T3-5	Uma Gouri S	BMSCE, Bangalore	TE	STAMP: Enabling privacy preserving location proofs

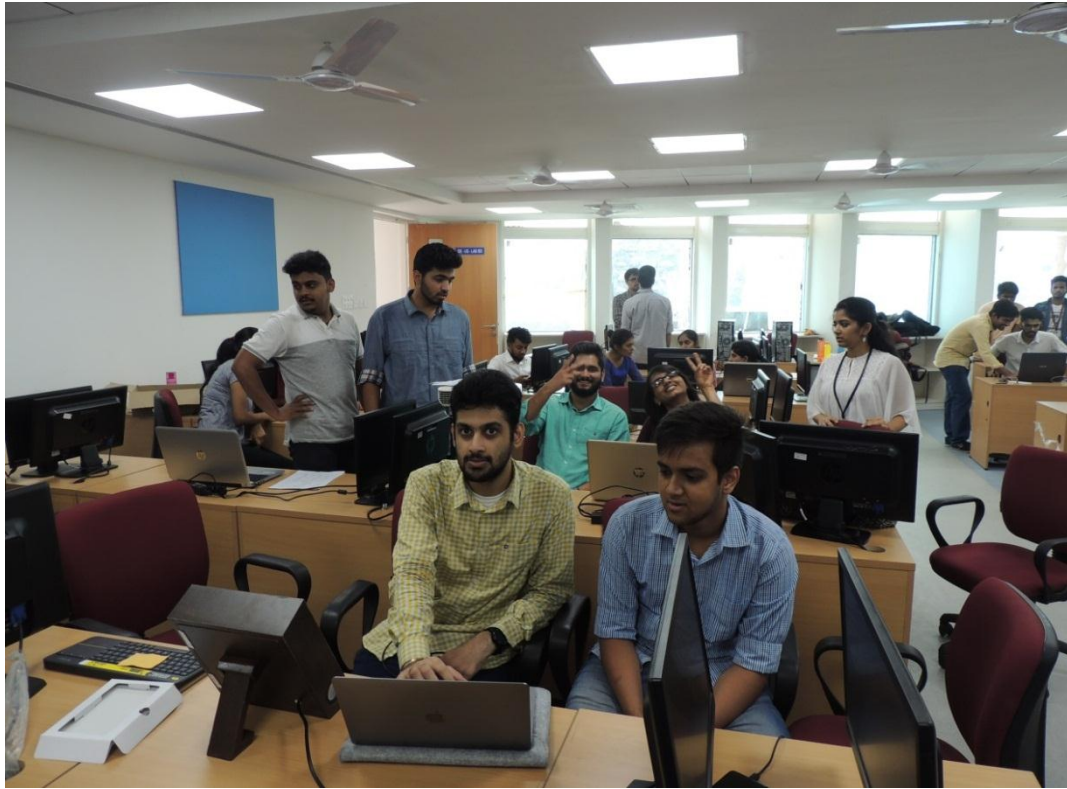
		UrviAjith Skanda Yashaswi			for mobile users
6	T3-6	AishwaryaB ala AkshataBab uKori ChaithraSre edhar Harish R	DayanandaS agar College of Engineering	ECE	GENERATION AND DETECTION OF ORTHOGONAL DIFFERENTIAL CHAOTIC SHIFT KEYING USING RASPBERRY PI
7	T3-7	MANU S SAHANA RAO SHREYAS M TUSHAR R GOWDA	DayanandaS agar College of Engineering,	ECE	On Chip Antenna- Simulation and Analysis
8	T3-8	Mohit R Praveen Kumar A Mukunda T Sumanth Y	DayanandaS agar College Of Engineering	ECE	Smart Parking System using IOT
9	T3-9	Niharika B Priyanka KR Varalakshmi MC YaseerArafa th S	SJC institute of technology	ECE	IOT BASED CROP LOSS PREDECTION,ASSESM ENT AND EVIDENCE COLLECTION
10	T3-10	NVSR Nikhil, PrashantDe gaon RevanaSidd appa Gurupad	DayanandaS agar College of Engineering	ECE	Wireless Network on Chip
11	T3-11	Sourabh R Misal Prajwal S R Niveditha H M Vinayaka H M	DayanandaS agar College Of Engineering	ECE	Indoor Positioning System Using BLE And MQTT
12	T3-12	MehaWadhe r Aparna Gautham Suman	BMSCE, Bangalore	TE	Sign to speech conversion for speech impaired.
13	T3-13	Madhura A (IEEE)	BMSCE, Bangalore	TE	Speech Recognition using Machine Learning

		Sangeetha B M Tanisha C Achala			
14	T3-14	Gayatri Rose Harshit Seth PullaGayath ri Karthik K	DayanandaS agar College Of Engineering	ECE	Diabetic Retina Detection through Local Binary Pattern
15	T3-15	Vidhya T Vaishnavi NK	BMSCE	EEE	Augmented reality for autonomous vehicles

Moments from Track-3







FIRST PRIZE



Smart Parking System using IOT, Mohit R, Praveen Kumar A, Mukunda T and Sumanth Y, ECE, DayanandaSagar College Of Engineering,

SECOND PRIZE



IoT Based Crop loss Prediction, Assessment and Evidence Collection. Niharika B, Priyanka KR, Varalakshmi MC, YaseerArafath S, ECE, SJCIT

SPECIAL MENTION



Intersection collision warning system using VANETS, Y Shashikiran, ArunAthreyas G, Subodh V Manvi, Sumukha Sharma, TE, BMSCE

Track Co-ordinators: T.ANUSHALALITHA and SHAMALA BHAT

The event was successfully concluded with an address by Mr VinayRao, Jury member of the track 3 and the cultural program by the students of Telecommunication Engineering. The winners for all the three tracks were announced by Dr C Gururaj and the winners were awarded with cash vouchers as well as certificates. The first and second prize winners were awarded certificates while other interesting projects received a special mention. All the participant, volunteers and co-ordinators were given certificates.

It was an eventful day which provided students an opportunity to showcase their projects on cutting edge technologies on topics from IoT, Communication and Signal processing, Wireless technology, Embedded systems, Antennas, Virtual Machines, Automotives, Biomedical and other areas of engineering. This event should drive students to contribute further in applying their knowledge gained for the betterment of society and themselves.

THANKING THE JUDGES



Prof N SrinivasaRao thanking VinayRao



Prof. P S Gowra thanking Manoj

CULTURAL EVENTS



Carnatic Flute by Vaibhavi K



A classical composition vocal rendition by Avani



Classical Dance performance by Amshu K and Vibha Prasad



Thanking the performers



Thanking the performers



Thanking the performers

Outcome of the Project Contest

The outcomes of the project contest are discussed here with respect to graduate outcomes defined by NBA (National Board of Accreditation). The Figure 1 shows broad area of themes covered under project contest. Covering major areas of research gives an overall idea of present technology to the lower semester under graduates (non-participants of the project contest) during project exhibition. The rubrics mentioned in the table 1 address most of the graduate attributes defined by NBA as shown in table 2.

Table 2: Graduate Attributes addressed through the Project Contest

Sl. No.	Graduate Attributes (GAs) defined by NBA	Rubrics used in Evaluation of Projects	GAs addressed with PBL*	GAs addressed without PBL*
1	Engineering Knowledge	Innovation & Resesarch	✓	✓
2	Problem Analysis		✓	✓
3	Design/Development		✓	✓
4	Conduct Investigations		✓	
5	Modern Tool Usage		✓	
6	The Engineer & Society	Societal Concern	✓	
7	Environmental Issues		✓	
8	Ethics		✓	✓
9	Team Work	Presentation, Questions & Answers	✓	
10	Communication		✓	✓
11	Project Management		✓	
12	Life Long Learning		✓	

APPENDIX A RUBRICS

Table 1: Sample evaluation sheet used in the event for project assessment

PID (Project ID):	
Project Title:	
Rubrics	Score
Innovation	10
Resesarch	10
Societal concern	10
Presentation	10
Questions & Answers	10
Total	50

APPENDIX B SAMPLE CERTIFICATE



BMS COLLEGE OF ENGINEERING
(Autonomous Institution under VTU)
Department of Telecommunication Engineering
(Accredited by NBA for Five Years in Tier-I Format)



Certificate of Participation
TELECOMBAT-2019
2nd National Level Project Contest, May 11, 2019

This is to certify that the project

titled _____
by _____
of _____ College has participated in
TELECOMBAT-2019, 2nd National Level Project Contest organized by the Department of
Telecommunication, BMS College of Engineering on 11th May 2019 under IEEE BMSCE student
chapter.

Dr. B. Kanmani
Professor & Head
Dept. of TE, BMSCE, Bengaluru

Dr. B.V. Ravishankar
Principal
BMSCE, Bengaluru

APPENDIX C FINANCIAL STATEMENT

STATEMENT OF ACCOUNT

Total Amount Collected

Sl.No	Name	Institute	Amount
1	D M SUSHANTHA VIDYA BUSHANA,KAVYA GOWDA L A NAMITHA U, THEJASHWINI K S	SJC INSTITUTE OF TECHNOLOGY	600
2	Nishkala U, PapiyaMandal Preethi K S , Ranjitha N	GSSS Institute of Engineering & Technology for women.	500
3	Ankit Shree, AshishJavaji , VoletiNagavenkataSriramKoushik , SurajBeragu	DayanandaSagar College of Engineering	600
4	Suhas S, Shrilakshmi S Neginahal Nishith K Vasishtha, Nikhil Sharma B	K. S. School of Engineering and Management	600
5	AishwaryaBala, AkshataBabuKori ChaithraSreedhar, Harish R	DayanandaSagar College of Engineering	600
6	GAYATRI ROSE HARSHIT SETH PULLA GAYATHRI KARTHIK KUMAR K	DAYANANDA SAGAR COLLEGE OF ENGINEERING	600
7	ARJUN A, ARAVIND KUMAR S, M PRAKASH, AKSHAY R	GLOBAL ACADEMY OF TECHNOLOGY	600
8	K M BHARATH KUMAR , HARSHITHA A	Global academy of technology	600
9	MANU S, SAHANA RAO, SHREYAS M, TUSHAR R GOWDA	DayanandaSagar College of Engineering, Kumarswamy Layout	600
10	Mohammed Arshad, AmthulNusrath M K, Almas khalidHussain, Mohamed Salman	HKBK COLLEGE OF ENGINEERING	600
11	Pranav, Atishek, Dhimanth, Nischal	DayanandaSagar College of Engineering	600
12	Mohit R Praveen Kumar A Mukunda T Sumanth Y	DayanandaSagar College Of Engineering	600
13	Yadav S V, Bharath T V, Pooja P M	M S engineering college	600
14	NIHARIKA B,PRIYANKA , KR,VARALAKSHMI MC,YASEER ARAFATH S	Sjc institute of technology	600
15	NVSR Nikhil, PrashantDegaon, RevanaSiddappa, Gurupad	DayanandaSagar College of Engineering Bangaluru-78	600
16	Sourabh R Misal, Prajwal S R, Niveditha H M, Vinayaka H M	DayanandaSagar College Of Engineering	600
17	Sambhav Jain, Sushanth D, Varsha, Vijetha N Bhat	Ramaiah Institute of Technology	600
18	DHEERAJ S E, LATHIF SHARIEFF, KISHAN G, ROHITH G ADIGA.	Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY	600
19	Baishnavsingh, Alisha verma, Amruthaanand, Adityavaibhav	JSSATEB	600
20	Parikshith M, Sanjay A, Supreeth R, Surya Embar	Siddaganga Institute of Technology	600
21	Chandana S, Janitha P L, Nikitha J	M S Engineering College	600
22	Rakshitha B S, BinduShreePatil,Harshitha K	M S Engineering	600
23	Vidhya T, Vaishnavi NK	BMSCE	600
24	Raghavendra S Narsapur , Basavaraj P Hiremath,Manjunath K G	Bapuji institute of engineering and technology Davangere	600
25		RVCE	600

26	Mohammed Arfan, Vidhya T	BMSCE	600
27	SarangPani, Souparnika M Patil, Aditya G B , Mohammed Arfan	BMSCE	600
28	Akash R Kathavate, PranavBharadwaj, Sandarsh MK	BMSCE, TE	500
29	SanchitaVishwa , Harsha Ramesh , RadhikaRavikumar	BMSCE, TE	500
30	Rushingwadivin, Jasmine shrestha	BMSCE, TE	500
31	Y Shashikiran, ArunAthreyas G, Subodh V Manvi, Sumukha Sharma T C	BMSCE, TE	500
32	Arpita Christina R, Chethana Y, Yashaswini G, Jeevitha G N	BMSCE, TE	500
33	Vinay s vasisht, Swaroop Joshi, Shreedhar, Shashidhar	BMSCE, TE	500
34	Bharath S, Praneeth RH, Tejesh M	BMSCE, TE	500
35	Amulya , Krishnai, Bhanupriya, Riyasri	BMSCE, TE	500
36	Akhila R, Jeevitha L, Roopa HV	BMSCE, TE	500
37	Haritha M K, TanmaySaiSrinivas	BMSCE, TE	500
38	Adil, Abdul AhadMomin, Mukulupadhay, SumitShrey	BMSCE, TE	500
39	Akshatha.N, K.Harishree.J.Rai, Rachita Ramesh	BMSCE, TE	500
40	HrushikeshDeshpande, KeertanaKamesh, Navya Shree	BMSCE, TE	500
41	SnehaBhat, Tejesh V, Prathibha V	BMSCE, TE	500
42	Uma Gouri S , UrviAjith, Skanda ,Yashaswi	BMSCE, TE	500
43	Madhura A, Sangeetha B M, Tanisha C, Achala	BMSCE, TE	500
44	MehaWadher , Aparna , Gautham ,Suman	BMSCE, TE	500
Total Amount : External Teams			16100
BMSCE Telecommunication Department Student Registration (17 teams) Amount			8500
College Sponsorship for Winner			36000
Total Amount			60600

Total Expenditure

Sl.No	Particulars	Bill No	Amount
1	I - Prize * 3 track		24000
2	II - Prize * 3 track		12000
3	Fast Print Junction	1947 dt: 12-09-19	392
4	Flower pots - 12 No * 80		960
5	BMS Educational Trust Hostel		11000
6	KaapiKutira		1690
7	Meenakshi Electricals and Electronics	34312	2550
8	Shree Enterprises	183	2630
9	Shree Enterprises	191	2750
10	Campus Book Mart	1610	60
11	Speed Post		40
12	Miscellaneous		80
Total			58152.00

Individual Track Reports by: M Vasantha Lakshmi, K P Pushpavathi, T.Anushalalitha

Telecombat event Report by: Balachandra K

B Kanmani

HOD, Department of Telecommunication Engineering