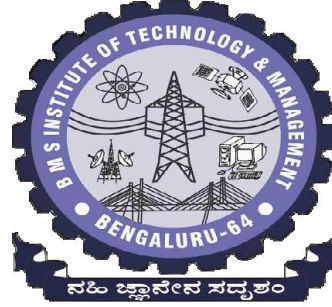


# **BMS** INSTITUTE OF TECHNOLOGY & MANAGEMENT

**BANGALORE - 560064**



PROJECT BASED  
LEARNING

## **Open Day Report – 04/11/2019**

**2019 – 20 Odd Semester**



**PBL Main Coordinator:**  
**Dr. Anil G N**  
Prof & Head, CSE, BMSIT&M

**Compiled and Edited by:**  
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Asst. Professor, CSE, BMSIT&M



## **PREAMBLE**

**BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, Avalahalli, Yelahanka, Bengaluru, organized OPENDAY: PROJECT EXHIBITION-2019 on MONDAY 4th, November 2019 to exhibit the project based learning work carried out by the students of the institution. The projects exhibited the student’s ability to apply their learning to solve the real world problems. Several hundreds of projects in the emerging areas like IOT, Block Chain, Bluetooth, Cryptography and Network Security, Data Analytics and Data Mining, Automobile, Waste management, Android, Agricultural equipment, Health etc. were exhibited and their working principles were demonstrated. Experts from the industry and reputed academic institutions were part of the Judging team.**

**The Principal in his opening remarks said that BMSIT&M is a premier accredited institute, where a lot of emphasis is given to the project based learning, industry internships, innovative methods of teaching and learning process. He specifically mentioned about the spirit of “Do It Yourself” being inculcated in the students. The Institute provides platform for incubating technology and space for young entrepreneurs to germinate their ideas into products. He also mentioned that financial assistance and rewards are extended to the students.**

**A lot of focus on learning and project orientation is emphasized in order to make the students employable. Inter-disciplinary and social relevance projects are done by a large number of students. Total of around 472 projects were exhibited by the students. (CSE-160, ISE-58, TCE-29, ECE-101, EEE-30, ME-35, CIVIL-30, MCA-29).**

**The projects taken up by the students are associated to the courses of their semester in which students have taken up few challenges and realized the same**

with the help of peer groups and faculty mentors. These projects were evaluated in two levels. First level by the internal committee and second level by external committee.

The judges expressed that many of the projects could be scaled up to product and patent level. They also felt that focus could be leading students from being employable to becoming entrepreneurs.

**Some of the Societal relevance and Technological Innovative Projects demonstrated from each department:**

#### **Department of Electronics & Telecommunication Engineering**

- **Biotic Phone Charger**
- **Smart Choice – Grab a Treat**
- **Osteoarthritis Early Detection**
- **Development of Automated Waste Segregation Device**
- **Flood Level Indicator**
- **Smart Dustbin**
- **Parking Management System**

#### **Department of Mechanical Engineering**

- **Water Level Indicator**
- **Home Automation using Mobile Application**
- **Automatic Railway Gate**
- **Blind Automatic Robot Controller**
- **e-Solar Compost Bin**
- **Automated Floor Cleaner**
- **Fire Fighting Robot**

#### **Department of Electrical & Electronics Engineering**

- **Automatic Room Light Controller with Visitor Counter**
- **2-D Printer with Stepper Motor Control**
- **Robotic Arm**
- **Vehicle Accident Prevention using Blink Sensor**

#### **Department of Electronics & Communication Engineering**

- **Line Marking Machine**
- **Medical Vending Machine**
- **Virtual Remote Laboratory**
- **Automated Solar Powered Lawn Mover**
- **Clap based Light Activation System**

#### **Department of Computer Science & Engineering**

- **Advance Network of Things**
- **Attendance using Images – FaceID**
- **Restaurant Assistant Robot**
- **Smart Irrigation using Arduino**
- **Blockchain for Money Transactions**
- **Light Intruder Alert System**

### **Department of Information Science & Engineering**

- **Automatic Gas Booking**
- **Waste Segregation using Robotic Arm**
- **Collision Avoidance Blind Stick**
- **Hydroponic Farming**
- **Blockchain for Patient Health Records**
- **Random Question Paper Generation System**

### **Department of Civil Engineering**

- **BMSIT Location Finder**
- **Solar Energy for Street Lighting & Water Pumping System**
- **Fail Safe Urban Flood Management System**
- **Soil Stabilization of Parking Lot using Demolished Building Waste**
- **Plastic Wall Dadoing with Fireproof**
- **SBSC Blocks – a step towards Sustainability**

### **Master of Computer Applications**

- **Secure M to M Communication**
- **Smart Xerox Service**

## Computer Science & Engineering

Department of Computer Science & Engineering in association with Computer Society of India proudly hosted 2019-20 Odd Semester's Project Based Learning Open Day encompassing 145 projects in various fields of Computer Science.

### JUDGES

1. Mr. Vijaya Kumar A S – Consultant, Aprameyah Technologies
2. Mr. Pradeep – Technical Head, SunSoft Technologies
3. Dr. Sunanda Dixit – Associate Professor, CSE, BMSIT&M
4. Dr. Satish Kumar T – Assistant Professor, CSE, BMSIT&M
5. Prof. Bharathi R – Associate Professor, CSE, BMSIT&M

### PRIZE WINNERS

| Sem      | Section | Name      | PBL Title                         | Prize                              |                     |   |
|----------|---------|-----------|-----------------------------------|------------------------------------|---------------------|---|
| 3        | A       | Kamakshi  | Smart Irrigation using Arduino    | 1                                  |                     |   |
|          |         | Rishika   |                                   |                                    |                     |   |
|          |         | Hiranmayi |                                   |                                    |                     |   |
|          |         | Janani    |                                   |                                    |                     |   |
|          |         |           | Anmol                             | Restaurant Assistant               | 2                   |   |
|          |         |           | Gaurav                            |                                    |                     |   |
|          |         |           | Ashotosh                          |                                    |                     |   |
|          |         |           |                                   |                                    |                     |   |
|          | B       |           | Perna                             | Object Detection                   | 1                   |   |
|          |         |           | Roobini                           |                                    |                     |   |
|          |         |           | Sai Sparsha                       |                                    |                     |   |
|          |         |           | Tanuja                            |                                    |                     |   |
|          |         |           |                                   | Priyanka                           | Line Follower Robot | 2 |
|          |         |           |                                   | Kirthan                            |                     |   |
|          |         |           |                                   | Vishnupriya                        |                     |   |
|          |         |           |                                   | Nanma                              |                     |   |
|          | C       |           | Sunjana                           | Eduvoke                            | 1                   |   |
|          |         |           | Siddhanth                         |                                    |                     |   |
| Shantanu |         |           |                                   |                                    |                     |   |
| Shubham  |         |           |                                   |                                    |                     |   |
|          |         |           | Vidit                             | Tic-Tac-Toe INC                    | 2                   |   |
|          |         |           | Shreeharsh                        |                                    |                     |   |
|          |         |           | Soumil                            |                                    |                     |   |
|          |         |           | Mithilesh                         |                                    |                     |   |
| 5        | A       | Ruchit    | Blockchain for Money Transactions | 1                                  |                     |   |
|          |         | Abhishek  |                                   |                                    |                     |   |
|          |         | Arun      |                                   |                                    |                     |   |
|          |         | Sumukha   |                                   |                                    |                     |   |
|          |         | Charan    |                                   |                                    |                     |   |
|          |         | Ganesh    |                                   |                                    |                     |   |
|          |         |           | Nitin                             | Local Webserver using Raspberry PI | 2                   |   |
|          |         |           | Vikas                             |                                    |                     |   |
|          |         |           | Naveen                            |                                    |                     |   |
|          |         |           | Aman                              |                                    |                     |   |
| B        |         | Rohit     | Voice Sniffer                     | 1                                  |                     |   |
|          |         | Raahul    |                                   |                                    |                     |   |
|          |         | Santhosh  |                                   |                                    |                     |   |
|          |         | Yeshwanth |                                   |                                    |                     |   |
|          |         | Prasanth  | FaceID BMSIT                      | 2                                  |                     |   |

| Sem | Section | Name        | PBL Title                   | Prize |
|-----|---------|-------------|-----------------------------|-------|
|     |         | Pranav      |                             |       |
|     |         | Rohit       |                             |       |
|     |         | Rutvi       |                             |       |
|     | C       | Siddhanth   | Intranet Chatting           | 1     |
|     |         | Sumit       |                             |       |
|     |         | Srijan      |                             |       |
|     |         | Zeeshan     |                             |       |
|     |         | Sai Srujana |                             |       |
|     |         | Trupti      | Light Intruder Alert System | 2     |
|     |         | Tejaswini   |                             |       |
|     |         | Sinchana    |                             |       |
|     |         | Alekya      |                             |       |
|     |         | Varun       |                             |       |







## Electronics & Communication Engineering

The projects taken up by the students are associated to the theme-SMART CAMPUS, which students have taken up few challenges and realized the same with the help of peer groups and faculty mentors. These projects were evaluated in two levels. First level by the internal committee consisting of Faculty members of ECE department and second level by external committee on various rubrics.

### JUDGES

1. Dr. Raghavendra Kulkarni, Distinguished Professor, Dept. of ECE, PES University
2. Mr. Pushendra Yadav, SoC Design Engineer, Intel Corporation, Bangalore

### PRIZE WINNERS

| Semester   | Prize              | USN               | Name of the student   | Title of the project                    |
|------------|--------------------|-------------------|-----------------------|---|
| 3          | 1                  | 1BY18EC011        | Devanshu Anand        | Smart Dustbin                           |
|            |                    | 1BY18EC047        | Ajit Kumar            |   |
|            |                    | 1BY18EC068        | Mohit Rajeetabh       |   |
|            |                    | 1BY18EC105        | Himanshu Choudhary    |   |
|            |                    | 1BY18EC196        | Siddharth Prakash     | Smart Campus Using Pzt                  |
|            |                    | 1BY18EC001        | Abhishek G Kankanwadi |   |
|            |                    | 1BY18EC156        | Nishant Pandey        |   |
|            |                    | 1BY18EC200        | Satyam Kumar          |   |
|            |                    | 1BY18EC163        | Subramanya Swaroop Sp | Smart Bag                               |
|            |                    | 1BY18EC144        | Sanjay A S            |   |
|            | 1BY18EC167         | Surya S           |                       |   |
|            | 1BY18EC182         | Vishesh K         |                       |   |
|            | 2                  | 1BY18EC186        | Yashas D              | Automated Lawn Mower Using Solar Energy |
|            |                    | 1BY18EC002        | Achyuth Desai         |   |
|            |                    | 1BY18EC178        | Vikas U Sirvi         |   |
|            |                    | 1BY18EC014        | Akshay S              |   |
|            |                    | 1BY18EC080        | K Narmadha            | Device Control Using Smart Phone        |
|            |                    | 1BY18EC104        | M Munawwar            |   |
|            |                    | 1BY18EC111        | Nidhisha              |   |
|            |                    | 1BY18EC116        | Vijay                 |   |
| 1BY18EC031 |                    | Balvanth          | Smart College App     |   |
| 1BY18EC151 |                    | Shrinidhi N Hegde |                       |   |
| 1BY18EC102 | Meghana S          |                   |                       |   |
| 1BY18EC146 | Sayan Chakraborty  |                   |                       |   |
| 1BY18EC070 | Indrayudh Sengupta |                   |                       |   |



|            |                              |                             |                     |  |
|------------|------------------------------|-----------------------------|---------------------|--|
| 5          | 1                            | 1BY17EC088                  | Manoj A             | Snap Attendance  |
|            |                              | 1BY17EC131                  | R Ganesh Rohit      |  |
|            |                              | 1BY17EC129                  | Prithviraj V        |  |
|            |                              | 1BY17EC120                  | Praneet Dpv         |  |
|            |                              | 1BY17EC037                  | Chethan             | Vision Based Smart Attendance System                             |
|            |                              | 1BY17EC009                  | Akash P. Galagali   |  |
|            |                              | 1BY17EC041                  | Debanshu Biswas     |  |
|            |                              | 1BY17EC164                  | Siddhesh            | Class Room Automation Using Machine Learning And Embedded System |
|            |                              | 1BY17EC024                  | Anushka Tripathi    |  |
|            |                              | 1BY17EC061                  | Hubli Meghana       |  |
|            | 1BY17EC058                   | Harshitha S Prakash         |                     |  |
|            | 2                            | 1BY17EC020                  | Anitha J Saini      | Sanitary Napkin vending Machine                                  |
|            |                              | 1BY17EC007                  | Aishwarya Narendra  |  |
|            |                              | 1BY17EC048                  | Divya Prakruthi     |  |
|            |                              | 1BY17EC090                  | Megha Jain:         | Cloud Based Smart Waste Monitoring System                        |
|            |                              | 1BY17EC098                  | N S Sindhura        |  |
|            |                              | 1BY17EC103                  | Nannapaneni Kaavya  |  |
|            |                              | 1BY17EC162                  | Shruthi S           |  |
|            |                              | 1BY17EC142                  | Rohit Mr            | Android Controlled Remote Controlled Security                    |
|            |                              | 1BY17EC114                  | Pavan Y             |  |
|            |                              | 1BY17EC067                  | Parikshith          |  |
|            |                              | 1BY17EC179                  | Varun Venkatesh     |  |
|            |                              | 1BY17EC111                  | Parikshit Y P       | Line/Boundary Making Robot                                       |
|            |                              | 1BY17EC093                  | Mohan Kumar Rm      |  |
|            |                              | 1BY17EC137                  | Ravadagundi Revanth |  |
| 1BY17EC084 |                              | M Nikhil                    | Msl 2.0             |  |
| 1BY17EC190 | Mustafa Khan                 |                             |                     |  |
| 1BY17EC175 | Tejas Kumar                  |                             |                     |  |
| 1BY17EC146 | Saatvik Puranik              |                             |                     |  |
| 1BY17EC178 | Vadiraj Raghavendra Adabaddi | Self Service Library Kiosks |                     |  |
| 1BY17EC065 | Jerin Gregory Benny          |                             |                     |  |
| 1BY17EC077 | Kartik Patil                 |                             |                     |  |
| 1BY17EC051 | Drupad Ramesh                |                             |                     |  |
| 1BY17EC047 | Diksha B Shetty              |                             |                     |  |
| 1BY17EC053 | E Niveditha                  |                             |                     |  |



**BMS Institute of Technology and Management**  
Avalahalli, Doddaballapura Main road, Bangalore - 560064  
(Approved by AICTE, Affiliated to VTU)  
Accredited by NBA and Certified with 'A' grade by NAAC



**Department of Electronics and Communication Engineering**

Welcomes you to

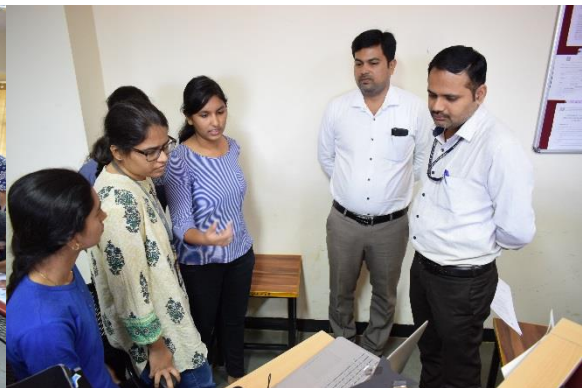
**“OPEN DAY”  
EXHIBITION - PROJECT BASED LEARNING**

Date: 4<sup>th</sup> November 2019

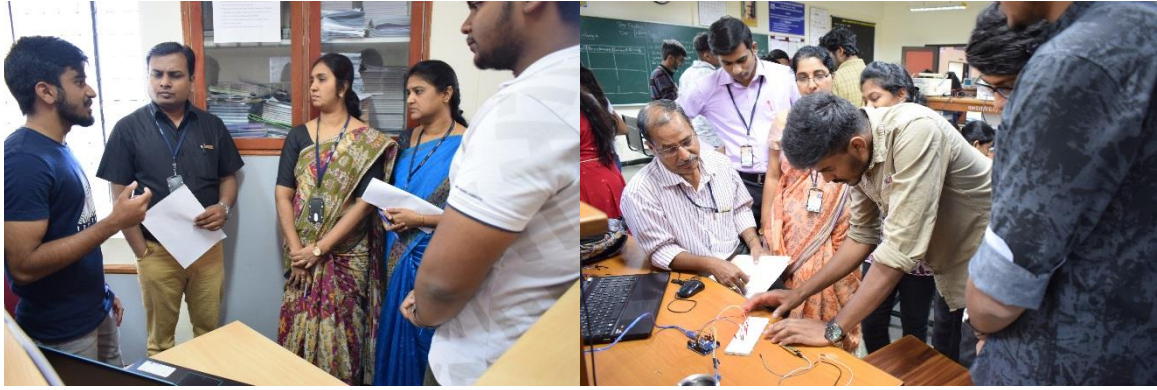
Venue: I & II Floor, Academic Block

**VISION OF THE DEPARTMENT**  
Be a pioneer in providing quality education in Electronics, Communication and allied engineering fields to serve as valuable resource for industry and society.

**MISSION OF THE DEPARTMENT**  
1. Impart sound theoretical concepts & practical skills through innovative pedagogy.  
2. Promote interdisciplinary research.  
3. Inculcate professional ethics.







## Information Science & Engineering

Around 58 projects were showcased on this event. Some of the projects were Robotic arm for waste segregation, Smart room system, Blind stick, Smart monitoring of LPG Cylinder, Home automation using IoT, CPTS Ticketing System. Students worked on various domains like IoT, Robotic, AI, Bigdata and Cyber Security. This event helped students to gain knowledge on latest technologies and enhance their technical skills.

### JUDGES

1. Ms. Madhuri N Kirani from Citrix Systems Inc
2. Mr. Aditya Mallampali from Cypress Semiconductor

### PRIZE WINNERS

| Sem / Section | USN        | Name                     | Project Title                                   | Prize |
|---------------|------------|--------------------------|---|-------|
| 3A            | 1BY18IS034 | B E Abhijith             | Smart cylinder monitoring                       | 1     |
|               | 1BY18IS005 | Adarsh Sadanand Shetty   |   |       |
|               | 1BY18IS037 | Chaitanya M              |   |       |
|               | 1BY18IS003 | Achutha Sandesh          |   |       |
|               | 1BY18IS033 | Ayanabha Talukdar        | Waste Segregation via Robotic ARM               | 2     |
|               | 1BY18IS040 | Chandra Prakash Choraria |   |       |
|               | 1BY18IS047 | Dona Bhowal              |   |       |
|               | 1BY18IS048 | Faiqa Farooq             |   |       |
| 3B            | 1BY18IS102 | Rose Yadav               | ROBUSTMADE                                      | 1     |
|               | 1BY18IS083 | Prabhat Chhajer          |   |       |
|               | 1BY18IS077 | Paras Goyal              |   |       |
|               | 1BY18IS100 | Ritwik Singh             |   |       |
|               | IBY18IS073 | Nikhil Anand             | Smart fuel Indicator                            | 2     |
|               | IBY18IS087 | Pranav R D               |   |       |
|               | IBY18IS120 | Sumukha S                |   |       |
|               | IBY18IS076 | Nithin UralaM R          |   |       |
| 5             | 1BY17IS025 | Joswin Melrick Lobo      | AI CHATBOT                                      | 1     |
|               | 1BY17IS010 | Anmol Patil              |   |       |
|               | 1BY17IS036 | NiKitha Hasbi            |   |       |
|               | 1BY17IS028 | Kruthika Ramesh          |   |       |
|               | 1BY17IS022 | Hima J                   | Facial recognition Attendance Management system | 2     |
|               | 1BY17IS063 | vishal Anand             |   |       |
|               | 1BY17IS049 | Sanketh S Jain           |   |       |

## Blind Stick





## Smart Monitoring of LPG Cylinder.



## Civil Engineering

Totally 30 projects have been exhibited (17 of 7<sup>th</sup> semester and 13 of 3<sup>rd</sup> semester). Two resource personnel (academic based and industry based) had judged the event.

The criterion of evaluation included Presentation skills, relevance of project, Significance to Environment/Society, Weather patentable or Publishable or Presentable in Conference & Viva.

Out of 30 projects, two best projects from each semester were awarded.

### JUDGES

1. Dr Raja Gopal Reddy Chintakunta, Professor, Department of Civil Engineering (MSRIT)
2. Mr. Praveenjith, Managing Director Paradigm Environmental Strategies (P) Ltd. (Eco paradigm).

### PRIZE WINNERS

| Sem            | Name              | PBL Title  | Prize |
|----------------|-------------------|--|-------|
| 3              | D Pranay Reddy    | Fail Safe Urban Flood Management System  | 1     |
|                | Sharom Shaik      |  |       |
|                | Taha Misba        |  |       |
|                | Gurudeep G        | Study of Need for Elevated Shoulders in a Smart City   | 2     |
|                | Manohar B M       |  |       |
|                | Suhas M Gowda     |  |       |
| Tanzil Ahmed R |                   |  |       |
| 5              | Puneeth B         | Performance Study of Fenugreek for its Hydrogel Properties for its Futuristic Role in Enhancing Expanse and Efficiency of a Green Campus | 1     |
|                | Akash N           |  |       |
|                | Rakshith A E      |  |       |
|                | Bhuvan P G        | Plastic Wall Dadoing with Fireproof Analysis   | 2     |
|                | Vikas C           |  |       |
|                | Praveen kumar D S |  |       |
| Darhsan J      |                   |  |       |



## Mechanical Engineering

The projects exhibited the student's ability to apply their learning to solve the real world problems. More than 30 projects were demonstrated on the concept of smart campus. Projects like Mechanical gate opener, Smart bin, Firefighting robots, Ultrasonic walking stick, MAT generator, smart campus security and automatic floor cleaning etc were exhibited.

Experts from GE India, Bangalore and Quest Global, Bangalore were part of the judging team. Number of projects exhibited is 35 (17 from III Sem and 18 from V Sem). Project exhibition were held in CR 303 and CR 304 for III and V semester students respectively.

The projects taken by students were evaluated in three levels. First and second level by the internal committee and third level by external committee.

The judges expressed that many of the projects could be scaled up to product and patent level. They also felt that focus could be leading students from being employable to becoming entrepreneurs

### PRIZE WINNERS

| 3 <sup>rd</sup> Semester |   |   |                     |
|--------------------------|---|---|---------------------|
| Prize                    | Project Title                                     | Students  | Guide               |
| I                        | MAT Generator                                     | 1. Kiran V<br>2. Md. Mastanulla<br>3. N Sharan<br>4. Narendra Sadanad H       | Dr. N Suresh        |
| II                       | Plant Monitoring System Using IOT                 | 1. Shibham B<br>2. Shivam Kumar<br>3. Shivam Sundriyal<br>4. Shrinidhi N      | Dr. Sangamesh B     |
| 5 <sup>th</sup> Semester |   |   |                     |
| Prize                    | Project Title                                     | Students  | Guide               |
| I                        | Accident Area Code Information Through Mobile SMS | 1. K Gowtham Sai<br>2. P Chanukya<br>3. Simikha P V<br>4. Rajath Kumar S      | Dr. Santhosh        |
| II                       | Automatic Cleaner                                 | 1. Nihar Venkat Sai<br>2. Nikhil R<br>3. Prajwal R Patil<br>4. Prajwal S Bhat | Mr. Keerthi Kumar N |









## Electrical & Electronics Engineering

32 projects were demonstrated on the concept of smart campus.

| Sl. No.                      | Semester                 | No. of Projects |
|------------------------------|--------------------------|-----------------|
| 1.                           | 3 <sup>rd</sup> Sem, EEE | 16              |
| 2.                           | 5 <sup>th</sup> Sem, EEE | 16              |
| <b>Total No. of Projects</b> |                          | <b>32</b>       |

### PRIZE WINNERS

| Semester | 3rd        |                      |   |           |
|----------|------------|----------------------|---|-----------|
| Prize    | USN        | Name of the Students | Title of the Project                            | Guide     |
| 1        | 1BY18EE014 | Dasari Manoj Kumar   | Bluetooth Controlled Car Using Arduino          | Manjula.  |
|          | 1BY18EE015 | Debanshu Poddar      |   |           |
|          | 1BY18EE001 | Aayan Singh          |   |           |
|          | 1BY18EE017 | Deepanshi Singh Rao  |   |           |
| 2        | 1BY18EE052 | Shubham S Raheja     | Google Assistant Controlled Air Quality Monitor | Babu Naik |
|          | 1BY18EE053 | Sujeeth Kumar G K    |   |           |
|          | 1BY18EE054 | Sumanth Hande P      |   |           |
|          | 1BY18EE059 | Ullas Raju C R       |   |           |
| 3        | 1BY18EE022 | Guru Anavarhadhan S  | Bluetooth Controlled Irrigation System          | Manjula   |
|          | 1BY18EE024 | Harshitha Jagadish   |   |           |
|          | 1BY18EE025 | J P Jaipuneeth       |   |           |
|          | 1BY18EE403 | Dinesh R             |   |           |

| Semester | 5th        |                       |  |                   |
|----------|------------|-----------------------|--|-------------------|
| Prize    | USN        | Name of the Students  | Title of the Project                       | Guide             |
| 1        | 1BY17EE058 | Wilson Jackson        | Obstacle Avoiding Robot                    | Suma Umesh        |
|          | 1BY17EE014 | Deeksha P             |  |                   |
|          | 1BY17EE033 | Nikitha E Kattimani   |  |                   |
|          | 1BY17EE032 | Niharika K N          |  |                   |
| 2        | 1BY17EE055 | Vikhyat D Bharadwaj   | 2D Printer With Stepper Motor Control      | Dr Prashant A. A. |
|          | 1BY17EE018 | Girish L G            |  |                   |
|          | 1BY17EE001 | Abhishek H N          |  |                   |
|          | 1BY17EE015 | Deol P A              |  |                   |
| 3        | 1BY17EE047 | Siddharth K Ghodasara | Automated Collaborative Robotic Arm (ACRA) | Dr N Rama Rao     |
|          | 1BY17EE013 | Binoj T B             |  |                   |
|          | 1BY17EE037 | Prashanth R           |  |                   |
|          | 1BY17EE010 | B Bharath Bhaskar     |  |                   |



## Electronics & Telecommunication Engineering

A total of 29 projects were showcased. Out of which nine best projects were selected for the first and second and third prize from each Semester.

### JUDGES

1. Mr Raghu Vamshi, Product Manager Oracle
2. Dr Umesh Reddy, Associate Professor, ECE, M S Ramaiah Institute of Technology

The External Judges was from the industry Sector, Mr Raghu Vamshi, Product Manager Oracle. The other judge was from M S Ramaiah Institute Of Technology Dr Umesh Reddy Associate Professor ECE dept.

### PRIZE WINNERS

| Semester   | Prize | USN                    | Name of the Student   | Title of the Project   |
|------------|-------|------------------------|-----------------------|--|
| V          | I     | 1BY17TE024             | P Vishnuvardhan Reddy | Design Model And Simulate Liquid Gated Ion Selective Fet For Sensors Application |
|            |       | 1BY17TE037             | Srikanth R            |  |
|            |       | 1BY17TE021             | M Sree Karan          |  |
|            | I     | 1BY17TE010             | Chandan L Nayak       | Osteoarthritis Early Detection   |
|            |       | 1BY17TE002             | Aditya Datta G N      |  |
|            |       | 1BY17TE014             | Goutham C             |  |
|            | II    | 1BY17TE001             | Abhilash S            | Reward Bin   |
|            |       | 1BY17TE034             | Siri N Rao            |  |
|            |       | 1BY17TE030             | Sailakshmi Saravanan  |  |
|            |       | 1BY17TE006             | Aman Sharma           |  |
|            | III   | 1BY17TE005             | Akshatha S M          | Development Of Microstrip Patch Antenn To Achieve Multi Band Performance         |
|            |       | 1BY17TE009             | Chaithra D S          |  |
| 1BY17TE044 |       | Vidhu Shekhar Tripathi |                       |  |
| 1BY17TE033 |       | Shreyas N Rao          |                       |  |
| III        | I     | 1BY18TE037             | Naureen Khan          | Flood Level Detector   |
|            |       | 1BY18TE024             | Liya Gafar            |  |
|            |       | 1BY18TE045             | Rakshita W            |  |
|            | II    | 1BY18TE043             | Prajwal P             | Application Of Ultrasonic Waves(Smart Bin)                                       |
|            |       | 1BY18TE018             | Hima V                |  |
|            |       | 1BY18TE023             | Kuber Bellad          |  |

|  |     |            |                     |   |
|--|-----|------------|---------------------|---|
|  |     | 1BY18TE038 | Neeraj K            |   |
|  | II  | 1BY18TE019 | K V Sagar           | Door Securityalarm Using Google Assistant |
|  |     | 1BY18TE020 | Kv Skandha          |   |
|  |     | 1BY18TE037 | Naureen Khan        |   |
|  |     | 1BY18TE002 | Akshat              |   |
|  | III | 1BY18TE022 | Karunya Sankar      | Techno Eye                                |
|  |     | 1BY18TE051 | Rushank Prabhudesai |   |
|  | III | 1BY18TE006 | Ashwini C Gujjar    | Mobile Phone Detector                     |
|  |     | 1BY18TE036 | Namitha M           |   |
|  |     | 1BY18TE026 | Manasa SH           |   |

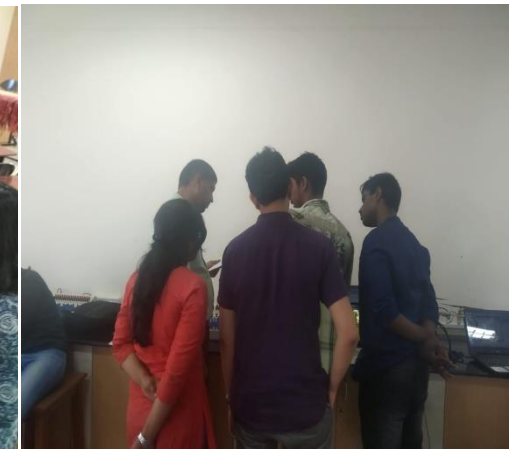


**Judges**



**Judge addressing the gathering**





**5<sup>th</sup> sem projects evaluated by principal and the judges**



**3<sup>rd</sup> sem project evaluation by Dean of Academics and Dean of External Affairs.**



## Master of Computer Applications

The Open Day (Project Exhibition) was conducted at the Dept. of MCA which received a huge participation from the students of III Semester and V Semester MCA. III Semester projects were simple gaming projects carried out using Python programming language. V Semester projects were mostly app-based and IoT projects developed using Raspberry-Pi, Pic-18 and Arduino boards. Total 29 projects were evaluated by the judges

The program started with the welcome speech by Dr. Aparna K., HoD, Dept. of MCA and briefing about the idea behind making the students take up PBL to enhance the learning experience by practical implementation of the theoretical concepts. The evaluation was done based on criteria like innovation, clarity in the objectives set and met, communication, team work, and societal/industrial/environmental relevance of the project. Two best projects from each semester were selected and cash prizes were announced.

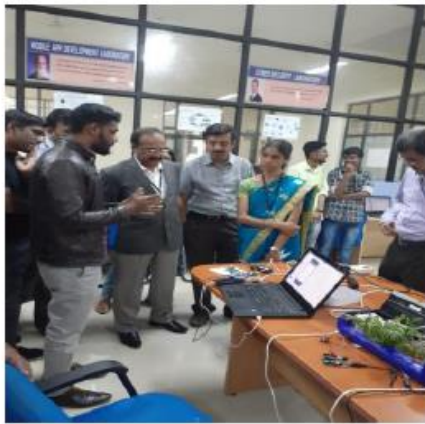
### JUDGES

1. Mr. Srinivasa Reddy, founder and Managing Director of Srinidhi Innovative InfoSoft Pvt. Ltd, Bengaluru
2. Mr. Ranjith Sundarrajan, Software Development Manager, Tesco, Bengaluru.

### PRIZE WINNERS

| Semester: 3 |            |                      |  |
|-------------|------------|----------------------|--|
| Prize       | USN        | Name of the Students | Title of the Project                             |
| 1           | 1BY18MCA02 | Adithya K            | Tic Tac Toe Game                                 |
|             | 1BY18MCA25 | Saket Anand          |  |
| 2           | 1BY18MCA04 | Amit Kumar           | Threat words<br>recognition in English<br>Speech |
|             | 1BY18MCA24 | Sahdev Kumar Gupta   |  |
|             | 1BY18MCA27 | Seema Kumari         |  |

| Semester: 5 |            |                      |                                |
|-------------|------------|----------------------|--------------------------------|
| Prize       | USN        | Name of the Students | Title of the Project           |
| 1           | 1BY17MCA18 | Rohith B             | Secure M-to-M<br>Communication |
|             | 1BY17MCA24 | Sohail Khan          |                                |
| 2           | 1BY18MCA04 | Girija V             | Smart Xerox<br>Service         |
|             | 1BY18MCA24 | Soundarya H N        |                                |



# PBL EVALUATION – COLLEGE LEVEL

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT  
Bengaluru 560064

PROJECT BASED LEARNING (PBL) 2019-20

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05-11-2019

## PBL EVALUATION: COLLEGE LEVEL

### FIRST PRIZE

Project Title : Automated Collaborative Robotic Arm [ACRA]

Department : EEE

Student Name: Siddharth KG(1BY17EE047), B Bharath Bhaskar(1BY17EE010),  
Prashanth R(1BY17EE037), Binoj T B(1BY17EE013)

Guide Name : Dr N Ramarao

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### SECOND PRIZE

Project Title : Automatic Line Balancing Robot

Department : E&C

Student Name : Parishit Y P(1BY EC111), R Revanath (1BY EC137)  
Mohan Kumar R H(1BY EC093), Nikhil M (1BY EC084)

Guide Name : Prof. Suryakanth B M

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### THIRD PRIZE

Project Title : Smart Fuel Indicator

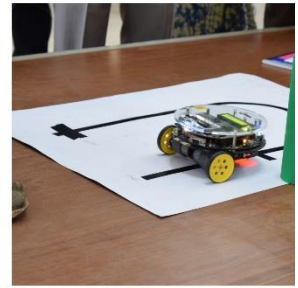
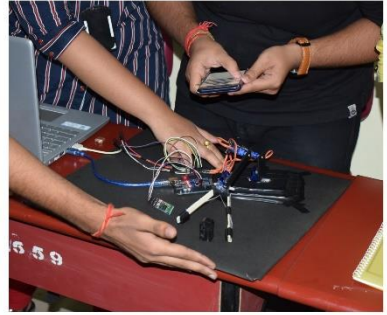
Department : IS&E

Student Name : Nitin Urala MR(1BY18IS076), Pranav R D(1BY18IS087),  
Shohenbahmed N G(1BY18IS112), Sumukha S 1BY18IS120),

Guide Name : Prof. Mahalaksmi

































Thank  
you!