

SATHYABAMA UNIVERSITY

(Established under Section 3 of UGC Act, 1956)
Declared as Category "A" University by MHRD, Govt. of India

ANNUAL REPORT

2016 - 2017



MAY 31, 2017

SATHYABAMA IEEE STUDENT BRANCH

Branch Code - 36301



Preface

This annual report is the outcome of the IEEE Student Branch, Sathyabama Institute of Science and Technology in the academic year 2016-2017. The objective of the activities conducted by the student branch is to familiarize the students with the implementation of knowledge. The report is prepared based on the information gained during every programmes.

Branch Counsellor

Contents

About IEEE -----	4
About SATHYABAMA IEEE Student Branch -----	5
Vision and Mission -----	6
IEEE SB Executive Committee 2016-2017 -----	7
IEEE SB Activities -----	9
IEEE Induction Programme -----	10
IEEE Student Professional Awareness Programme -----	11
Workshop on PCB Design -----	12
Workshop on Brain Wave, Sixth Sense Robotics, Biped Robot -----	13
Special Lecture on Remote Sensing and Sensors -----	15
Symposium SILICON-2K17 -----	16
Special Lecture on E-Waste Management -----	17
Special Lecture on Role of Engineering in Molecular and Nano Medicine Research -----	18
Contact Us -----	19

About IEEE

IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. IEEE and its members inspire a global community to innovate for a better tomorrow through its more than 423,000 members in over 160 countries, and its highly cited publications, conferences, technology standards, and professional and educational activities. IEEE is the trusted "voice" for engineering, computing, and technology information around the globe.

About SATHYABAMA IEEE SB

The inception of the IEEE Student Branch (IEEE SB) of Sathyabama Institute of Science and Technology (Deemed to be University) was in the month of September 1991. Throughout the years, it is an active and vibrant branch. Every year the branch is added up with active student members who play a major role in building up the branch and keeping it active. The branch was started with 21 members and at the end of 1999 it had 375 members. As an add-on, the branch is awarded as the 5th largest branch in the world, 2nd largest in the Asia pacific region and again received largest membership in the year 2012 and 2013. In addition, the branch has received certificate of appreciation for organizing activities towards advancement of IEEE and Engineering professions. IEEE student branch consistently organize technical events like workshops, hands on training and special lectures in cutting edge technologies. Students expand their knowledge by attending these events of advance technologies. Also, student branch hosts a National Level Technical Symposium “SILICON” every year; as a platform for students to showcase their leadership and technical skills.

Vision

- To enable, empower and energize the student members to enhance their technological interests and motivate them to excel in technical skills
- To provide a platform for student members to improve them in various managerial and technical qualities

Mission

- To create an awareness among students about benefits of IEEE
- To organize technical awareness programmes
- To organize skill development programmes
- To form technical groups and motivate the student members to develop projects useful for the community
- To organize regular events like workshops, technical symposiums and contests
- To encourage student members to achieve more awards sponsored by IEEE

IEEE SB Executive Committee 2016 - 2017

Selection Procedure and Guidelines

The circular for IEEE SB Executive Committee Selection Interview for the academic year 2016-2017 was sent on 6.6.2016 to all the third-year students of School of Computing (CSE and IT) and School of Electrical and Electronics Engineering (ECE, EEE and E&I) through Deans of schools/ Heads of the Departments/ Class Counsellors. The interested students were asked to register with their basic information and bio-data on or before 20.6.2016. 53 students were shortlisted based on their skills and interests from the 127 registered candidates were called for the direct interview on 23.6.2016 and 24.6.2016. Direct interview was conducted by IEEE SB counselor and staff coordinators. The evaluation report was made based on students' elegance, perspective, communication, interactive and leadership skills. The following executive committee with 15 students was selected from the direct interview based on the evaluation report for the academic year 2016-2017. This executive committee will be active till the end of this academic year.

Executive Committee

S. No.	Name	Dept.	Position
1	KISHORE KUMAR S	ECE	CHAIRMAN
2	MALIAKAL MINNU VARGHESE	ETCE	VICE CHAIRMAN
3	DEVARAPALLI SARANYA RANI	ECE	SECRETARY
4	DEVYANI MAHADEVAN	ETCE	TREASURER
5	TATINENI SAGARIKA	ECE	MEMBER WELFARE
6	SUTHEENDRAN	CSE	SECTION COORDINATOR
7	MONALISA BHATTACHARJEE	E&I	PROGRAM COMMITTEE
8	K.S.VISHAL	EEE	PUBLICITY -HEAD
9	J.A.A. RUBAN	EnC	PUBLICITY
10	NIKITA AGRAWAL	EEE	DESIGN COMMITTEE- HEAD
11	LOKESH KUMAR	IT	DESIGN COMMITTEE
12	MORAVINENI KRISHNA SAI	ECE	REGISTRATION
13	Y.KARISHMA	EEE	HOSPITALITY-HEAD
14	LIKITH SRIRAM	E&I	HOSPITALITY

IEEE SB Activities

The new executive committee was introduced on 27.6.2016 and their roles and responsibilities were described. IEEE SB regularly meets fortnightly with executive committee, staff coordinators and branch counselor. Meetings were conducted with the agenda of conducting IEEE awareness programmes to first year to third year students of School of Computing and School of Electrical and Electronics Engineering in the month of June and July to enhance the membership development. The next agenda was to organize the activities to develop the technical skills of students. The activities like workshops and technical talks by experts were conducted. Also, the annual national level technical symposium SILICON 2K17 was planned on March 2017, but due to pandemic situation, the event was postponed to the next academic year. The next agenda was to bring out the leadership skills of executive committee. The details of the activities were given below.

IEEE - INDUCTION PROGRAMME

Nature of the event	Induction Programme
Topic	IEEE - Induction Programme
Date(s) & Time	21 July 2016
Resource Person	Mr.V.Vedanarayanan / Mr.N.Mathan

IEEE Student Branch of Sathyabama University elected its new office bearers for the scholastic year 2016-2017 on 21st July 2016 and they were formally introduced. IEEE Student Branch Counsellor Dr. M.S.Godwin Premi, IEEE Staff Coordinators Mr.V.Vedanarayanan and Mr.N.Mathan addressed the



gathering and felicitated the new official appointees. Staff coordinators were introduced and discussed about the mission of the respective branch.



IEEE STUDENT PROFESSIONAL AWARENESS PROGRAMME

Nature of the event	Awareness Programme
Topic	IEEE - Student Professional Awareness Programme
Date(s) & Time	27 July 2016
Resource Person	Mr.V.Vedanarayanan / Mr.Pranjal Dey
No. of Participants	184

IEEE Student Branch of Sathyabama University organized IEEE Student membership awareness programme on 27th July 2016. The objective of this event was to create awareness among students about IEEE membership and its benefits. Mr. Vedanarayanan, IEEE



SB coordinator and Mr.Pranjal Dey, Ex-chairman of IEEE Student Branch addressed the gathering of 184 students. He highlighted about the level of technical exposure that students could avail

from IEEE, different IEEE Societies and councils, Scope that IEEE provides beyond education and also regarding the activities Sathyabama University IEEE SB has done in the past.

WORKSHOP ON PCB DESIGN

Nature of the event	Workshop
Topic	PCB Design
Date(s) & Time	15&16 Sep 2016
Resource Person	Mr.Rajesh, Director, Realtime Technosoft
No. of Participants	50

IEEE Student Branch organized a Two-day workshop on PCB Design at Microelectronics Laboratory on 15th and 16th September 2016. Mr.Rajesh, Director, Realtime Technosoft, Chennai, handled the session with his team. Around fifty Second- and Third-year students from School of Electrical and Electronics participated in this workshop. The



students are trained to design an electronic circuit using Proteus and also acquired hands on experience in the design and development of homemade printed circuit board.

WORKSHOP ON BRAIN WAVE, BIPED ROBOT, SIXTH SENSE ROBOTICS

Nature of the event	Workshop
Topic	Brain Wave, Sixth Sense Robotics, Biped Robot
Date(s) & Time	22 & 23 Sep 2016
Resource Person	Executives from Robokart
No. of Participants	150

IEEE Student Branch organized a Two-day workshop on Brain Wave, Biped Robot and Sixth Sense Robotics on 22nd and 23rd September 2016 in association with e-cell, IIT Bombay and Robokart. Around 150 students from various schools of Sathyabama Institute of



Science and Technology participated in this workshop. The students had both Theoretical as well as Hands on Practical sessions. In the Brain wave workshop, detailed introduction of microcontroller and microprocessor were discussed. Description of Arduino Board along with description of each and every component in the kit were given. The participants were taught about coding

following with the assembly of the robot. Description of the Bluetooth module was provided. Coding of brainwave robot was held on the second day. The Designed Brainwave robots were operated by the participants and checked. Competition was held among the participants at the end. Certificate of appreciation were given to the teams with best Design. In the Biped Robot workshop, students learned to design a humanoid. Different motor controls and power supplies were discussed for two days. The student learned the concept of interfacing external peripherals. A competition among the teams was held to check the design ability of the students. In the Sixth Sense Robotics workshop, students learned about the introduction to Robotics, programming micro-controller (AT89c2051). Also, they learned a about image acquisition, color spaces, color format conversion, edge detection, etc in MATLAB. The students learned to integrate the Image processing concepts into the robot modules.



SPECIAL LECTURE ON REMOTE SENSING AND SENSORS

Nature of the event	Special Lecture
Topic	Remote Sensing and Sensors
Date(s) & Time	8 Feb 2017
Resource Person	Dr.V.E.Nethaji Mariyappan
No. of Participants	62

IEEE Student Branch, Sathyabama University organized a Special Lecture Series for IEEE student professionals. The first lecture of the series- "Remote Sensing and Sensors" was delivered on 8th February 2017 by Dr.V.E.Nethaji Mariyappan, Scientist-F, Centre for Remote Sensing & Geoinformatics (A Joint Initiative of ISRO and University).



SYMPOSIUM-SILICON 2017

Nature of the event	Symposium
Topic	SILICON-2K17
Date(s) & Time	15 th and 16 th Feb 2017
Resource Person	Dr. M.A. Atmanand, Chair IEEE Madras Section
No. of Participants	272

The IEEE Student Branch, Sathyabama University organized a two - day National level Technical Symposium, "Sathyabama Intercollegiate Level IEEE CONFERENCE - SILICON -2017" on 15th and 16th February.

The Chief Guest Dr. M.A. Atmanand, Chair-IEEE Madras Section, Scientist-G, Former Director, NIOT, Chennai delivered the inaugural address and released the "Book of Abstracts - SILICON-2017" and the first copy



is received by Dr.G.Sundari, Dean (Student Affairs). 272 participants enthusiastically participated in the events - Brain Storm, Crack with Creativity, Scrambled Circuit, Code in the Dark and Paper Presentation.

SPECIAL LECTURE ON E-WASTE MANAGEMENT

Nature of the event	Special Lecture
Topic	E-Waste Management
Date(s) & Time	24 th Feb 2017
Resource Person	Dr.Dawn S S
No. of Participants	64

IEEE Student Branch, Sathyabama University is organizing a Special Lecture Series for IEEE student professionals. The second lecture of the series- "E-Waste Management" was delivered on 24th February 2017 by Dr.Dawn S S, Centre Head, Centre for Waste Magement, Sathyabama University).



SPECIAL LECTURE ON ROLE OF ENGINEERING IN MOLECULAR AND NANOMEDICINE RESEARCH

Nature of the event	Special Lecture
Topic	Nano Science & Technology for Electronic Engineers
Date(s) & Time	15 th March 2017
Resource Person	Dr.R.Rajesh Kannan
No. of Participants	54

IEEE Student Branch, Sathyabama University organized the fourth lecture in the Special Lecture Series for IEEE student professionals on "Role of Engineering in Molecular and Nanomedicine Research" was delivered on 15th March 2017 by Dr.R.Rajesh Kannan, Scientist, Centre for Nanoscience and Nanotechnology (A Joint Initiative of IGCAR, Kalpakkam and Sathyabama University).



Contact Us

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