Shri Sant Gajanan Maharaj College of Engineering, Shegaon

horizon

By IEEE SSGMCE Branch

MAKE IN INDIA

SPECIAL

AMAZON

SWACHH BHARAT MISSION

WEB SERVICES

MAKE ~~MADE~~ IN ~~CHINA~~ INDIA

IEEE Students' Branch

IEEE Officer's Team for year 2016-17

Our Mentors

Departmental Chair	:	Prof. G.S. Gawande
Branch Counselor	:	Prof. P. R Wankhede

IEEE Management Team

Chairperson	:	Mr. Soham Dhole (4U)
Vice-Chairperson	:	Mr. Pralhad Ayachit (4U)
Secretary	:	Mr. Deepesh Khandelwal (4M)
Treasurer	:	Ms. Tanvi Gujar(3U)

IEEE Women in Engineering Affinity Group

Chairperson	:	Ms. Sneha Chhayala (4N)
Vice-Chairperson	:	Ms. Harshal Bhoyar (4N)
Secretary	:	Ms. Ritu Tekwani (4N)
Executives	:	Ms. Vinita Agarwal(3U)
		Ms. Ankima Tripathi(3R)

Other Management Teams

Technical Team

Technical Head	:	Mr. Chaitanya Gore (4S)
Webmaster	:	Mr. Tushar Zombade(3U)
Executives	:	Mr. Sushank Tidke(3S)
		Ms. Shrija Yadav (3U)

Event Management Team

Event Managing Heads	:	Mr. Prasanna Gadge(4U)
		Mr. Naveed Ansari (4M)
Executive	:	Mr. Rohan Kulkarni (3U)

Resource Team

Resource Head	:	Ms. Neha Anadpara(4N)
Executives	:	Mr. Harpreet Singh Gosal(3M)
		Ms. Smit Gadhiya(3N)

Membership Development Team

M.D. Officer	:	Ms. Darshana Sarda(4N)
Executives	:	Ms. Richa Mahajan (3N)
		Ms. Riya Jadiya (3U)

EVENT REPORT 2016-17

S.N	Title of Activity	Organizer / Resource person	Date	No. of Beneficiaries /Participants
1	Workshop on "Xilinx Vivaldo"	Prof. V. K. Bhangdiya Dept of E&TC, SSGMCE	3/09/ 2016 to 4/09/ 2016	30
2	Workshop on "Use of Engineering Calculator"	Mr. Chaitanya Jain 3rd Year E&TC	14/09/2016	242
3	Guest Lecture on "Embedded Systems"	Dr. Neelima Iyer Scientist, NCL, Pune	24/09/2016	20
4	Workshop on Antenna Design using NEC3"	Mr. Soham Dhole, Mr. Prasanna Gadge 4th year E &TC	02/04/2017	80
5	IEEE Paper Presentation in Pursuit	IEEE Coordinators	07/02/2017	12
6	IEEE Bombay Section Congress' 2017	IEEE Bombay Section and SSGMCE Shegaon	27-01/2017 29/01/2017	250

7	Self Financed Two Week STTP on Embedded Systems Design	Dr. K. B. Khanchandani Prof. P. R. Wankhede	12/06/2017 To 24/06/2017	23
8	Self Financed Two Week STTP on Internet of Things (Hands on Approach)	Dr. K. B. Khanchandani Prof. P. R. Wankhede	27/06/2017 To 08/07/2017	23

AMAZON

Amazon.com, Inc, is an American multinational technology company based in Seattle, Washington, that focuses on e-commerce, cloud computing, digital streaming, and artificial intelligence. It is considered one of the Big Four technology companies along with Google, Apple, and Facebook.

Amazon is known for its disruption of well-established industries through technological innovation and mass scale. It is the world's largest e-commerce marketplace, AI assistant provider, and cloud computing platform as measured by revenue and market capitalization. Amazon is the largest Internet company by revenue in the world. It is the second largest private employer in the United States and one of the world's most valuable companies. Amazon is the second largest technology company by revenue.

Amazon was founded by Jeff Bezos on July 5, 1994, in Bellevue, Washington. The company initially started as an online marketplace for books but later expanded to sell electronics, software, video games, apparel, furniture, food, toys, and jewelry. In 2015, Amazon surpassed Walmart as the most valuable retailer in the United States by market capitalization. In 2017, Amazon acquired Whole Foods Market for $13.4 billion, which vastly increased Amazon's presence as a brick-and-mortar retailer. In 2018, Bezos announced that its two-day delivery service, Amazon Prime, had surpassed 100 million subscribers worldwide.

Amazon distributes downloads and streaming of video, music, audiobook through its Amazon Prime Video, Amazon Music, and Audible subsidiaries. Amazon also has a publishing arm, Amazon Publishing, a film and television studio, Amazon Studios, and a cloud computing subsidiary, Amazon Web Services. It produces consumer electronics including Kindle e-readers, Fire tablets, Fire TV, and Echo devices. In addition, Amazon subsidiaries include Ring, Twitch.tv, Whole Foods Market, and IMDb. Among various controversies, the company has been criticized for technological surveillance overreach, a hyper-competitive and demanding work culture, tax avoidance, and anti-competitive practices.

WEB SERVICES

Web Services convert an application into a Web-application containing self contained and self describing application components. Web service is a function at a network address over the web or a message to the rest of the world. The basic Web Services platform is XML + HTTP organizations to communicate data without intimate knowledge of each others IT systems behind the firewall.

Web services do not provide the user with a GUI but developers add services to a GUI and they can share business logic data and processes through programmatic interface across a network. Different applications from different sources communicate each other.

. The XML provides a language used between different platforms and programming languages and express complex messages and functions. The HTTP protocol is the most used Internet protocol. The services used to integrate Web-based applications using

the **XML**, **SOAP**, **WSDL** and **UDDI** open standards over an Internetprotocol backbone where XML(Extended Manipulation Language) is used to tag the data, SOAP (Simple Object Access Protocol) is used to transfer the data, WSDL(Web Services Description Language) is used for describing the services available and UDDI (Universal Description, Discovery and Integration) is used for listing what services are available. It act as a mean for business communication with each other and with clients.

Non volatile data storage technology, Orbital Computing

The requirement of manufacture devices using Orbital Computing (Non volatile data storage technology) is very large. In this technology they have tried to probe the cloud of electrons around an atom by the help of terahertz waves. Generating consistent and tight waves are the toughest condition. If one can manage its requirements, then the device can be 1000 times faster. The scientist himself, who developed this technology, has never expected that it will ever work properly. s see, how much impact Orbital computing can make on this Cloud Computing world

. As per him it should take quite a long time and more research works before it can be used sustainably. The key to success in this technology was to select the right sized radiation for the atom

. That is, the technology is all about and the rest is just the formalities to be done very easily.

SWACHHA BHARAT MISSION

Swachh Bharat Abhiyan (SBA) or Swachh Bharat Mission (SBM) is a nation-wide campaign in India for the period 2014 to 2019 that aims to clean up the streets, roads and infrastructure of India's cities, towns, urban and rural areas. The campaign's official name is in Hindi and translates to "Neat and tidy India Mission" in English. The objectives of Swachh Bharat include eliminating open defecation through the construction of household-owned and community

-owned toilets and establishing an accountable mechanism of monitoring toilet use. Run by the Government of India, constructing 90 million toilets in rural India at a projected cost of ₹1.96 lakh crore (US$28 billion).

The mission aims to achieve an "open-defecation free" (ODF) India by 2 October 2019, the 150th anniversary of the birth of Mahatma Gandhi, by The mission will also contribute to India reaching Sustainable Development Goal 6 (SDG 6), established by the UN in 2015.The campaign was officially launched on 2 October 2014 at Rajghat, New Delhi by Prime Minister Narendra Modi. It is India's largest cleanliness drive to date with three million government.

The mission has two thrusts: Swachh Bharat Abhiyan ("gramin" or 'rural'), which operates under the Ministry of Drinking Water and Sanitation; and Swachh Bharat Abhiyan ('urban'), which operates under the Ministry of Housing and Urban Affairs. As part of the campaign, volunteers, known as *Swachhagrahis*, or "Ambassadors of cleanliness", have promoted indoor plumbing and community approaches to sanitation (CAS) at the village level.