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Editor-in-Chief

Prof. M. S. Balasubramani

Arise, Awake and Do Work...

Prof. M. S. Balasubramaniam

*India needs the sacrifice of her men not brutes.
Its need is a need and the need is not weakness.*

*Oh! my dear young and energetic,
Strong and well built intellectual*

Arise, awake and be ready

To jump into the fire (Work).

Work to learn, learn to work

To fulfil our country's need!

Compare and compete with your past

And never stop it and give up

To accomplish the new.

Please lay down

Your comfort and pleasure

Your name, fame and positions

To build a bridge of humility

And Zeal of Holiness

Over the millions of life;

So arise, awake and do work...

From the Desk of the Director

Every exceptional human endeavour requires the fine arts of striking the perfect balance between vision and action. Today, our milestones and triumphs are rooted in our unique approach that has helped us to come this far and it is proved through this Them E-Newsletter. I appreciate the editorial team for bringing out the volume 1 of second edition E-Newsletter.



Dr. N. K. Rana

Principal's Message

Them College of Engineering has continuously adhere to the philosophy like vision, shaping a plan, expressing ideas, coordination, integrity, patience, and achieving goals. The entire staff and students work as a team to inspire the world with their achievements. This E-Newsletter reports all the activities and success of the second half of the year 2018. I congratulate the editorial team for their successful attempt.



Dr. Shah Aqueel Ahmed

Editor's Message

I am pleased to present the stakeholders the second edition of Them E-Newsletter - Volume 1. It provides you the news of our staff and students' progressions towards building a good and healthy society. I am thankful to the entire departments and the centres of ecosystems for providing all the news in time. I

express my gratitude to the newsletter committee for helping me to complete the task on time. A special thanks to administrators for their encouragement and support to bring out this edition. I request the readers to send your constructive suggestions to themnews@themcoe.org



Prof. M. S. Balasubramani

Editorial Committee

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Newsworthy

Forming of Institution's Innovation Council (IIC)



Ministry of Human Resource Development Innovation Cell (MIC) New Delhi launched *Institution's Innovation Council (IIC)* at AICTE for systematically foster the culture of Innovation in all Higher Education Institutions (HEIs) across the country. Theem College of Engineering is registered with Innovationclub.in to form an *Institution's Innovation Council* in the college. The main objective of this council is to nurture the creativity among students through guiding their baby ideas, research projects and patent their real products as well as start-ups. The institute's entrepreneurship and R&D & IPR centres are in coordination with this council to empower the students in many social development activities with ethical values.

Matrix Type Solar Dryer Won Second Prize at Vortex 2018

Students of Mechanical Engineering Mr. Sagar S Yadav, Mr. Nikhil R Shahu, Mr. Adesh U Maral had designed **Matrix Type Solar Dryer** for "Vortex-2018" a National Level Project Competition held on 26 October, 2018 at Institute of Chemical Technology, Matunga, Mumbai. They won **second prize** with citation and Rupees 10,000 cash prize. This achievement is one of the project-based learning environment's initiation that added one more laurel to the institution.



The Matrix Type Solar Dryer is designed with steel wire-mesh duly black painted (0.65 mm wire diameter, 2.0 mm x 2.0 mm opening) in triangular shape series. The assembly of the mesh is placed in a Plywood Box and it covered with a transparent 4 mm thick glass. As the sunlight incident on the glass surface, the glass sinks maximum heat rather than an open surface and traps the heat inside the device to absorb by the matrix (wire mesh). The triangular shape series of mesh absorbs and stores the heat energy and the air is blown over the heated matrix by a fan to gain more than 55°C temperature. The heated air is traveling over a set of trays that contain agricultural products like wheat, rice, fruits, and vegetables for the process of drying by removing the moisture content. By this process, we can improve the self-value of product. It is a unique and creative product with minimal power consumption of 10.8 watts (1.8 x 6). The air after transmitting its heat energy to the product let out through a chimney to atmosphere. It is a safe and user-friendly device. The outgoing air is in moderate temperature and non-polluting one.

Institute's First E-Newsletter Unveiling



The Internal Quality Assurance Cell formed a Newsletter Committee for publishing institute's E-Newsletter and it was named as "Theem E-Newsletter". This electronic media newsletter leads the institute to save the environment as well as explore the institute's teaching-learning process worldwide. This work was successfully completed and unveiling of the first newsletter was happened on 28 July, 2018 in first year orientation programme. The chief editor Prof. M. S. Balasubramani handed over the hardcopy of "*Theem E-Newsletter*" to the chief guest Mr Baban Jadhav Sr. HR Manager, JSW, Tarapur, Secretary Dr Shaukat Ali, Director Mr Sharif Thim and Principal Dr N. K. Rana and requested them to unveil it. After unveiling, the editor explained the audience about the content of the E-Newsletter that covers the institute's remarkable events and the staff and students' achievements. The administrator appreciated the editor for his marvellous effort put in publishing *institution's first E-Newsletter* and said that this E-Newsletter adds one more milestone in institute's progress. At the end, the editor expressed his gratitude to all.

IOT Workshop for Innovation



Remarkable Events of the College

Sr. No.	Day & Date	Name of the Department/Centre	Programme/Event	Guests	Organized by
1	Saturday, 28 July, 2018	Department of Applied Science & Humanities	“First Year Orientation & Unveiling of Theem E-Newsletter”	Mr. Baban Jadhav, Sr. H. R. Manager, JSW, Tarapur.	Theem College of Engineering
2	Tuesday, 31 July, 2018	Theem Makers’ Vector	“Inauguration”	Mr. S. P. Nadkarni, GM, Home Fabrics (Works & Admin.), M/S DeDécor Pvt Ltd. Boisar.	Theem College of Engineering
3	Monday, 06 August, 2018	Theem Entrepreneurship and Start-up Cell	“Inauguration”	Mr. Lokesh Kumar CEO, Orion Automobile Engineering Consultants, Thane.	Theem College of Engineering
4	Saturday, 29 Sept. 2018	Theem Entrepreneurship and Start-up Cell	“Honouring & Felicitating Theem’s Start-up Leaders”	Mr. Bhibhu Ranjan Mohapatra, CEO, 3idea Technology, Mumbai.	Theem College of Engineering
5	Wednesday, 10 October, 2018	Theem Excellence Centre for Automobile	‘Inauguration’	Mr. Juned Sharif, Director, Niton Valves, Mumbai.	Theem College of Engineering
6	Monday, 13 August, 2018	EXTC, ETRX and Electrical Departments	Inauguration of “IETE Students’ Forum (ISF)”	Dr. Vikas Gupta, Honorary Treasurer, IETE Mumbai Centre	Theem College of Engineering
7	Monday, 20 August, 2018	IETE Students’ Forum (ISF)	Seminar on “Internet of Things” (IOT)	Mr. Shital Chawre, Head of Embedded Engineering Training at Prolific System and Private Limited	Theem College of Engineering
8	Thursday, 07 June, 2018	Theem Internal Quality Assessment Cell (IQAC)	“Commercial Law and Intellectual Property Rights” & “Industry Institute Interaction Programme”	Mr. Anand Mahurkar, Expert and Consultant of Commercial Law and IPR, Pune.& Mr. M. S. Subramanian, President TMA	Theem College of Engineering & Tarapur Management Association
9	Day 1 Wednesday, 10 October, 2018	Women Empowerment and Grievance Redressal Cell	Stress Management and Mental Health Guest Lecture	Dr. Vijay Patil, Shri Datta Clinic and Diagnostics Center, Boisar	Theem College of Engineering
10	Day 2 Thursday, 11 October, 2018		“Martial Arts Techniques Orientation and Demonstration”	Mr. Akash Bhoje, Fitness Reig, Mix Martial Arts Academy, Boisar	Theem College of Engineering
11	Day 3 Friday, 12 October, 2018		Group Discussion on “Teaching Women a Self-defence is the only way to avoid Sexual Assaults”		Theem College of Engineering
12	Monday, 15 October, 2018		Guest Lecture on “Laws of Women Safety”	Ms. Shweta Metkari, Advocate, Palghar Court	Theem College of Engineering
13	15 August, 2018 To 17 Oct. 2018	National Service Scheme (NSS)	“Tree Plantation” “Kerala Flood 2018 Donation” “Anti-plastic Campaign” “Hindi Diwas” “Traffic Control” “Swachhata Abhiyanat” “Poster Painting” “Competition” “Voter’s Awareness” “Organ Donation Awareness” “Supported Stress Management Event” “Book Distribution”	-	Theem College of Engineering’s NSS Unit

First Year Student Orientation Programme

First Year Coordinator: Prof. Emily Ghosh

Every year, Theem College of Engineering hosts First Year Orientation Programme. This year on 28 July 2018, the orientation was held with unveiling of the First Edition of “*Theem E-Newsletter*”. The main objective of this programme was to brief out the parents and the students about the work culture at college such as academics, resources, introduction of faculty and support services and rules and regulations of University of Mumbai and the college. The principal and the first year coordinator explained all other orientation objectives and motivated students for how to enrich themselves by involving in real deal talks to achieve professional goals. The chief guest Mr Baban Jadhav, Sr. HR Manager, JSW, Tarapur motivated students by saying some real life opportunities and its challenges.



Later, students were provided information of timetable, working hours, etc. and they were introduced to the laboratories, workshop, central library, audio-visual lab, digital library, language lab, etc. where they are going to do work.

Institution's Innovation Council (IIC) - Excellence through Innovation

Centre Head: Prof. Mahammadumar Jamadar

Ministry of Human Resource Development Innovation Cell (MIC) New Delhi launched *Institution's Innovation Council (IIC)* at AICTE for systematically nurture the culture of innovation in all ‘Higher Education Institutions (HEIs)’ across the country. The main objective of this council is to encourage students’ creative energy to work on new ideas for promoting innovation, start-ups and entrepreneurships.



Theem College of Engineering registered in *Innovationclub.in*, formed Institute's Innovation Council (IIC), and then determined the objective as follows:

- ✓ Motivating, inculcating and nurturing inventive and creative ideas and hobby projects among students
- ✓ Promoting academia and industry collaboration for relevant research
- ✓ Conducting entrepreneurship and start-up seminars and workshops
- ✓ Highlighting student's innovative projects and displaying the rewards and success stories

Institution's Innovation Council (IIC) will energize the ecosystem to empower students in more research and innovative projects and for involving them in many social development activities with ethical values. The building blocks of innovation and creativity ecosystem are as follows:

- “Theem Makers’ Vector” *a place for innovative projects* is a free space where students can work independently to develop their concept and convert it into innovative products.
- “Theem Entrepreneurship and Start-up Cell” *to ignite the innovation* guides and supports the budding engineers to become entrepreneurs and start-up leaders.
- “Theem Excellence Centre for Automobile” *to enhance student's knowledge* facilitates hands-on practice on premium and advanced automobile vehicles.
- “Theem R&D and Intellectual Property Right Cell” *to patent our students' innovation* conducts seminars and workshops on research and development for innovation and for IPR.
- “Theem Industry Ready Quality Training Centre” *to empower employability* trains and empowers students to become industry ready engineers with skills on quality assurance and quality control procedures.
- “Software Development Cell (SDC)” *to instil software doctrine* develops institute website and MOODLE and functions as a part of AKAASH project of IIT.

The detailed reports of IIC Ecosystem are as follows:

Theem Makers' Vector - A Place for Innovative Projects

Centre Head: Prof. B. H. Pushkarini

Theem Makers' Vector - the state-of-art was started at its own earmarked premise near Botanical Garden. It was inaugurated by Mr. S. P. Nadkarni, General Manager - Home Fabrics (Works & Administration), M/S DeDÉcor Pvt. Ltd. Boisar on 31 July 2018.



Inaugural Ceremony of Theem Makers' Vector



Explanation on TMV



Trial on MEGA ATV

Theem Makers' Vector is equipped with workshop machines, mechanical tools and equipment with electrical and electronic apparatus for enabling in-house students to carry out their academic and innovative projects, projects seeking patent and intercollegiate competitive with equal attention on safety of self as well as machines in operations. The workshop's liberty environment encourages the budding engineers to acquire technical and professional skills with self-discipline, undertake planning, problem formulation, managing schedule including communication skills. All the projects are aimed to obtain tangible product as 'Quality Innovative Products' with cost consciousness.

Students are motivated and inculcated to form a group of three to four members with the spirit of competitiveness among groups. Here are some hobby projects made by our students:



Work on Matrix Solar Heater



Matrix Solar Air Heater



Convex Mirror Solar Dryer

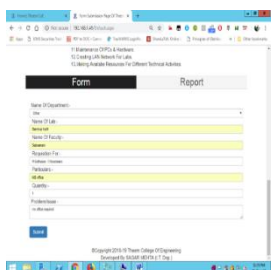


Auto Floor Cleaner

All the projects "Matrix Solar Air Heater", "Convex Mirror Solar Dryer" and "Robot Operated Auto Floor Cleaner" were presented in "Connexio-2018" a National Level Projects Competition hosted by ICT Mumbai and "Aviskar 2018" which was held on 27 October 2018 and on 23 December 2018 respectively. In which the project "Matrix Solar Air Heater won 2nd Prize at "Connexio-2018".

Theem Software Development Cell

Centre Head: Prof. Ansar Shaikh



Theem Software Development Cell looks after Website Development of the college and MOODLE and its maintenance. The main motto of this cell is to develop In-house Website and keep up the records of academic and other activities through online. The motivation of this set-up is to maximize the ICT utilisation in teaching-learning process such as academic, technical related notes, quiz, tutorial and course feedback, course exit survey and outcomes, etc. Presently, it has 2485 users of diploma and degree staff and students. The cell also motivates students to work out innovative and hobby projects in computer programmes as a result the design of "Server-room's Online Support System" is done by Mr. Sagar Mehta a student of Information Technology. This software programme is implemented for the maintenance of all the systems of institute. The programme window is presented over here.

Theem Excellence Centre for Automobile (TECA)

Centre Head: Prof. Nitin Balram Sall

Theem Excellence Centre for Automobile (TECA) a distinct centre was inaugurated on 10th October, 2018 by Mr Juned Sharif, Director of Niton Valves Mumbai. The TECA is equipped with the component such as Engine, Transmission System, Steering System, Manifolds, Turbo Charger, etc. It is one of the most advanced training centre

at our institute for the practice of dismantling and assembling of different advanced automobile systems. The Staff and Students are provided detailed knowledge of advanced automotive system and hands-on practice in the study of working and function of various automotive components with advanced sub-systems of famous brands like BMW, Volvo, Range Rover, etc. and they get facilities to have industry training at JCB, BMW, BAJAJ, KLT Automotive Private Limited, etc.



Theem Entrepreneurship and Start-up Centre (TESC) – Ignites the Innovation

Centre Head: Prof. Elahi Shaikh

Theem Entrepreneurship and Start-up Centre was inaugurated on 6 August, 2018 by Mr. Lokesh Kumar G. T. CEO of Orion Automobile Engineering Consultants, Thane. The main objective of this centre is to train our students for innovative and re-engineering products to form entrepreneurship and start-up. The centre indoctrinates student's social responsibility on promotion of industries to eradicate unemployment. It also imparts them the difficulties of entrepreneurship and start-up. Later, Mr. Lokesh Kumar conducted a seminar on "Service Operation and Service Quality Standards" to the students.



Mr. Lokesh Kumar G. T. inaugurated "Entrepreneurship and Start-up Centre"



Seminar on "Service Operation and Service Quality Standards"

The centre conducted a programme on "**Honouring and Felicitating Theem's Start-up Leaders**" as a token of respect to the alumni entrepreneurs and to appreciate their hard work, sacrifice, devotion and dedication towards their achievements. The programme was held on 29 September, 2018 at Seminar Hall 1 that was inaugurated by the chief guest Mr Bhibhu Ranjan Mohapatra CEO of 3idea Technology, Mumbai. The chief guest shared his views on Intellectual Property Rights (IPR) to the audience and answered their queries on IPR as well as entrepreneurship.



"Felicitation of Chief Guest Mr. Bhibhu Ranjan Mohapatra, Felicitation of Theem's Start-up Leaders and Group photograph of Chief Guest and Delegates"



Seminar on "Change is the only Constant"

All the start-up dignitaries were felicitated with memento and certificates. The start-up leaders shared their successful stories to the budding engineers and promised them for any help. The programme helped the budding engineers for promoting entrepreneurship and start-up. The following is the detail of alumni entrepreneurs:

Sr. No.	Name	Branch	Mobile Number	Academic Year	Company
1	Mr. Islam Shaikh	IT	9503460604	2012-13	Pre cloud Technologies
2	Mr. Shafique Khan	IT	9820445128	2012-13	Youth.in
3	Miss. Shweta Pandey	ETRX	8087167131	2012-13	Actor
4	Mr. Dhruvan Chatkara	Comp	9970613779	2012-13	Genmice Media Pvt Ltd.
5	Mr. Sanil Thayyal	ETRX	8149339195	2013-14	Protrex technologies.
6	Mr. Advait Mhatre	Comp	9004567894	2015-16	Scinotic Soution Pvt. Ltd.
7	Mr. Roshan Gaikwad	Civil	9049338353	2015-16	PWD (Civil Contractor)

8	Mr. Oza Sujeet	Mech	8149715733	2015-16	Micron engineering
9	Mr.Hamza Khan	ETRX	9773380520	2016-17	National security and air solution
10	Mr. Nadeem Manihas	ETRX	9619989246	2016-17	Embedded systems
11	Mr. Nasurullah Shaikh	EXTC	9321228311	2016-17	Development of Electronics Production (ABSTECH)
12	Mr. Tushar Chaudhary	EXTC	7506310818	2016-17	Shyam Enterprises
13	Mr. Sushil Vishwakarma	Mech	9730192379	2017-18	Rolex Enterprises
14	Mr. Abdul Hannan	Mech	9284111243	2017-18	For Patenting project
15	Mr. Afroz Chaudhary	Mech	7020131496	2017-18	Mega ATV Consultancy
16	Miss. Mayuri Sankhe	Civil	8237171659	2017-18	PWD (Civil Contractor)

IETE Student Forum (ISF)

Prof. Raees Ahmad & Prof. K. N. Attarde - ISF Staff Coordinators



The IETE Student Forum (ISF) was inaugurated on Monday, 13 August, 2018 by the Chief Guest Dr Vikas Gupta, Honorary Treasurer of IETE Mumbai Centre in presence of Director Mr Sharif Thim, Principal Dr N. K. Rana, organizing committee members Professor K. N. Attarde and Professor Raees Ahmad and student members. After the inauguration, the chief guest felicitated ISF organizing committee members and student members with certificates.

The Chief Guest addressed the audience about the importance of Engineering Profession in comparison with other leading professions. He explored all the objectives and importance of ISF and motivated our students to come forward and utilize this ISF a technical premier platform. He complimented the college management for conceiving the vital concept of ISF and integrating it with academic activities that would



effectively contribute to the quality of education to encourage the development of students in all dimensions. At the end, Principal Dr N K Rana thanked the Chief Guest for all kind of supports. The inaugural function was concluded with National Anthem.



Technical Seminar: The ISF organized a technical seminar on “Process Automation”. Mr Asrar Khan who is associated with Prolific Systems and Technologies Private

Limited with 20 years’ experience in Process Automation conducted the seminar. Students were gained multidimensional knowledge from him.

Technical Seminar: The ISF organized a Technical Seminar on “Internet of Things (IOT)”. It was conducted on Monday, 20 August, 2018 by Mr. Shital Chawre, Head of Embedded Engineering Training at Prolific System and Private Limited. This seminar provided students the knowledge of latest trend in embedded engineering.



Theem Internal Quality Assurance Cell (IQAC)



The IQAC works towards establishing standards and benchmark for improvement of quality in teaching-learning process there by acting as assurance cell to provide institutional reports to the NAAC for accreditation. As part of these objectives, the IQAC and Tarapur Management Association, Boisar jointly organized a seminar on “Commercial Law and Intellectual Property Rights” and “Industry Institute Interaction Programme” on Thursday, 07 June, 2018. The seminar was conducted in Seminar Hall 1 and the keynote speaker Mr Anand Mahurkar,

Advocate, Expert and Consultant of Commercial Law and IPR from Pune addressed industrialists, staff and students on the topics of patent, trademarks,



service marks, copyrights, trade secrets, etc. in an interactive session. Even he explained types of IPR of different industries and different countries. The seminar was very much educative and knowledgeable.

The “Industry Institute Interaction Programme” was conducted at Audio-visual Lab chaired by Mr. M. S. Subramanian, President TMA and moderated by Prof. M. A. Gulbarga. The prime focus of this discussion was on the staff and students’ involvement in industrial projects and solving industrial problems. It went with a lot of information related to students’ development in industry oriented learning and services. This programme yielded us two industrial problems that were taken up by two teams as their final year projects. They are working for the solution of these problems.

Women Empowerment and Grievance Redressal Cell

Women Empowerment and Grievance Redressal Cell (WEGRC) organized “3 Days Workshop” for girl students on “**Self-Defence**” and conducted it in two sessions prioritizing with awareness of Stress Management and Mental Health, orientation on Introduction to Self-defence Technique and Demonstration and Group Discussion.

Session 1 – Stress Management and Mental Health

The World Health Organization (WHO) declared the 10 October as “*World Mental Health Day*”. The WEGRC celebrated the same on 10 October, 2018 at our college with the objective of raising awareness of mental health issues and mobilizing efforts in support of mental health especially for girl students. It organized a programme on “*Stress Management and Mental Health*”. The chief guest Dr Vijay Patil (BAMS) addressed in his speech how to learn “Self-defence” that works wonder in managing stress levels, discipline and social anxieties for the people of all ages.



Introduction to Self-Defence Technique and Demonstration



On 11 October, 2018: The WEGRC organized a programme on “Introduction to Self-Defence Technique and Demonstration” and invited Mr Akash Bhoje, Trainer of Mix Martial Arts Academy to conduct an orientation programme on “Prevention is the Best Self-Defence”. After a moderate warm up and stretch, he explained ‘Personal Security Precautions’ and provided training of ‘how to get loud and push back’, ‘how to aim the parts of the body where you can do the most damage easily’ such as ‘eyes, nose, ears, neck, groin, knee, and legs’. Students were learned how to maximize the damage by the use of

elbows, knees and head as well as use of everyday objects.

The trainer demonstrated some moves for getting out of or defending against common holds or attacks by *Wrist Hold, Front and Back Choke Holds, Bear Hug, Mount Position and Sexual Assault*.



On 12 October, 2018: The trainer arranged a “Demonstration and Practise of Self-Defence Technique Session” in which they demonstrated the scenario of person-to-person nuisance and hostile environment situation and its defence patterns. Later girl students were trained to learn the technique.

Session 2 – Group Discussion



On 15th October: The WEGRC organized a group discussion on “Teaching Women Self-Defence is the only Way to Reduce Sexual Assaults” in which 13 girls teams were taken part. There were three rounds, in which the winner and runner-up teams were selected by the jury adjudicating with parameters such as Language, Body language, Voice Tone and Pitch, Group Behaviour, Fluency, Team Spirit, etc.

The WEGRC organized an expert speech on “*Laws of Women Safety*” and invited a resource person Mrs Shweta Metakari, Advocate of Palghar Court to deliver an informative speech on the topic. The speaker also announced the result of the group discussion and felicitated the winner and runner-up teams. She encouraged all the girl students to participate enthusiastically in more competition to strengthen the women power.



It is found that ‘Women Self-defence Workshop’ build-up significantly girl students’ level of confidence. The College planned to provide more opportunities to them to learn more about ‘Self-Defence’ that is an essential element in their cognitive moral development.



Sr. No.	Name of the Student	Year & Branch
Winner - Team 3		
1	Durga Bhoi	TE Civil
2	Riddhi Rathod	TE Civil
3	Samrudhhi Pimple	TE Civil
4	Ankita Kadam	TE Civil
Runner-up – Team 7		
1	Shweta Sanvatsarkar	BE IT
2	Pratiksha Pimple	BE IT
3	Rajavi Raut	BE IT
4	Rajavi Mhatre	TE IT

National Service Scheme (NSS)

(Reported by Programme Officers)



NSS Inauguration

The National Service Scheme (NSS) is a public service programme accompanied by students of colleges and universities. The aim of this service is to develop student’s personality in community service at colleges and universities. The University of Mumbai sanctioned NSS unit to our college with 50 volunteers on 21 July 2018.

The institute inaugurated NSS unit on Independence Day Celebration 15 August 2018. The programme officers Prof. Vinod A. Dhande and Prof. Arbiya Shaikh took an initiative to motivate our students to become NSS volunteers. The

volunteers were prepared to work for everyone who is in need of getting help for enhancing their standard of living with dignity. The NSS volunteers learnt from this service that the people *how to lead a good life despite the scarcity of resources and how to provide food, clothing and first aid to the natural and manmade disaster’s victims.*

The following is the detail of NSS programmes:

Sr. No.	Date	Name of the Event	Beneficiary
01	15 August, 2018	Independence Day Celebration and Tree Plantation	The Public
02	20 August, 2018	Kerala Flood Donation	State of Kerala People
03	08 Sept., 2018	Anti-plastic Campaign through Street Play, Rally with Cloth Bags Distribution	The Public of Boisar
04	14 Sept., 2018	Hindi Diwas	College Students
05	17 Sept., 2018	Ganesh Visarjan Traffic Control (Day 5)	Support to Dept. of Police
06	23 Sept., 2018	Ganesh Visarjan Traffic Control (Day 11)	Support to Dept. of Police
07	24 Sept., 2018	Swachhata Abhiyanat Chinchani Beach	Visitors and People living near Chinchani Beach
08	26 Sept., 2018	Street Play on Anti-plastic Campaign	The Public of Boisar
09	28 Sept., 2018	Poster Painting Competition	College Students
10	28 Sept., 2018	Voter’s Awareness Programme	College Students
11	29 Sept., 2018	Organ Donation Awareness Programme	Z.P.School Students, Maan
12	01 Oct., 2018	Essay Writing Competition on Gandhi Jayanti	College Students
13	02 Oct., 2018	Swachhata Abhiyan at Betegaon	Ashram school, Betegaon
14	06 Oct., 2018	Street Play on Anti-plastic	Ashram school, Betegaon
15	10 Oct., 2018	Supported Stress Management Event	College Girls
16	17 Oct., 2018	Book Distribution	Ashram school, Betegaon

News on Tree Plantation: After Independence Day celebration on 15th August, 2018, the tree plantation event was taken place. The chief guest Mr Nasir Pathan, Ex-ACP Mumbai and the guest of honour Mrs Sadhana Chauhan, Talathi of Boisar inaugurated the event by sapling some trees and other members of the institute planted more than 70 saplings. All of them felt great by contributing our responsibility to lessen the global warming.



Tree Plantation by Dr. Shaukat Ali, Mr. Nasir Pathan and Mrs. Sadhana Chauhan

Report on Helping Kerala Flood Victims: Kerala faced a heavy rainfall from 10th May 2018 to first week of August 2018 and the huge rainwater accumulated several dams. Finally, on 10 August, Kerala government informed the public through electronic and print media and public addressing system regarding the release of rainwater from 22 dams and then Kerala experienced a largest natural disaster of flood. The river basin areas and houses were submerged with the released water.



Donation Collected by NSS for Victims of Kerala Flood 2018

Our college NSS Unit decided to help the Kerala Flood Victims and collected clothes and needful goods from door to door at Boisar. Similarly, the unit collected donation amount of rupees 37,000/- and purchased things like Dettol, Sanitary Napkins, Glucon-D, Toothpaste, Toothbrush and Clothes for little ones, women and Garments like Lungi, Dhoti, Innerwear for men and handed over to Malayalam Samaj, Boisar. The college management appreciated their service and the volunteers felt very happy with the satisfaction of serving to human being keeps up the humanity among us.

News on Independence Day Celebration: The Independence Day was celebrated at our college with unprecedented patriotic fervour on August 15, 2018. The entire college assembled at parade ground to pay tribute to the freedom fighters. The chief guest Mr Nasir Pathan Ex-ACP Mumbai hoisted the 'Tricolour' all the participants saluted and sang 'National Anthem'. After that, the chief guest and all the dignitaries presided over the NSS march-past with the beat of commands. All participants took pledge on "Serve our motherland India with heart, body and soul in our dignified deeds to bring her laurels". At the end, the staff and students were distributed sweets.



Report on Anti-plastic Campaign: The NSS volunteers carried out an Anti-plastic Campaign in which they conducted "Street-play and Rally" at different location in Boisar. The activities were taken on different dates as on 08 and 26 September, 2018 at Boisar market area and on 06 October, 2018 at Ashram School, Boisar. The rally was started from Navapur Naka by propagating



Rally & Street-Play for "Anti-plastic Ban"

the hazardous of using and dumping plastic bags via railway station, bus stand it reached Ostwal Gate.

At Ostwal market area, they performed "Street-play through which they narrated how the destruction happens at environment, water and soil. They explained the loss of soil fertility affects the crop and other farming products. They also explained how the littered plastic bags pollute the river and seawater and kills the fish and other water animals and how it blocks drains at living areas and the burned one releases toxic chemicals that contaminate the air. At the end of the play, they distributed cloth bags to the public and insisted them always carry cloth bags while going for purchasing vegetables, fruits, milk, and bread and butter. The campaign was successful in conveying the messages. Here, we present you photographs of cloth bag distribution and other activities:



Cloth Bags Distribution to Public, Service at Ganesh Visarjan Traffic Control, and Hindi Divas at college



Swachha Bharat Abhiyan at Chinchani Beach



Swachhata Bharat Abhiyan at Betegaon

Book Distribution at Betegaon Ashram School



Essay Writing Competition at Theem COE, Boisar

Organ Donation Awareness Program At Maan

Reports of Department Activities

Sr. No.	Day & Date	Department	Programme/Event	Special Guest	Organized by
1	Saturday, July 28, 2018	Diploma Computer	Expert Lecture on "Trends in IT"	Ms. Chaitanya Ramaiya	Mr. Ahamad Husen
2	Saturday, July 28, 2018	Diploma Computer	Expert Lecture on "Web Development"	Prof. Manjusha Gaikwad	Mr. Ahamad Husen

3	Thursday, Aug. 02, 2018	Diploma Mech. Engineering	Expert Lecture on "HVAC"	Prof. Sayyad Layak B.	Prof. Nitin Galwade
4	Tuesday, Aug. 28, 2018	Diploma Computer	Expert Lecture on "Internet of Things"	Mr. Rahul Gupta	Mr. Ahamad Husen
5	Tuesday, Aug. 28, 2018	Diploma Computer	Expert Lecture on "Android Application"	Mr. Meet Ramaiya	Mr. Ahamad Husen
6	Saturday, Aug. 25, 2018	Diploma Computer	"Personality Development"	Prof. Geeta Y.	Mr. Ahamad Husen
7	29 Aug. 2018	Diploma Computer	"Server Room Visit" for Network Management	-	Prof. Rosy Prof. Ahamad
8	02 Aug. 2018	Information Technology	"Google SEO"	Mr. Rocky Jagtiani	Theem COE
9	14 Aug. 2018	Information Technology	Guest Lecture on "Career in IT"	Prof. Parag Nivsarker	Theem COE
10	11 Aug. 2018	Information Technology	Guest Lecture on "Industry Perspective of .NET"	Mr. Sukhsagar Tiwari	Theem COE
11	30 Aug. 2018	Information Technology	"IOT Workshop"	Mr. Himanshu Sharma and Mr. Joshua Parera	IT Dept.
12	18 Sept. 2018	Civil Engineering	Industrial Visit to "Water Treatment Plant"	Department	Prof Arsalan Khan
13	29 Sept. 2018	Civil Engineering	Guest Lecture on "Risk Assessment in Construction"	Mr. Abhishek Panchal, Manager- Admissions, RICS	Prof Arsalan Khan
14	06 Aug. 2018	Automobile Engineering	"ERP Software Training"	Mr. Shivraj Patade, Sales Manager, Engg. Designs & Software Services	Theem COE
15	06 Aug. 2018	Automobile Engineering	"Service Standards & Service - Quality Operations"	Mr. Lokesh Kumar CEO, Orion Auto. Engg. Consultancy	Theem COE
16	14 Aug. 2018	Automobile Engineering	"Latest Trends in Automobile"	Mr. Shahid Merchant Director, Safetec Auto	Theem COE
17	25 Sept. 2018	Automobile Engineering	Industrial Visit to "Volkswagen Plant, Pune."	Mr. Akshay S. Naik	Theem COE
18	15 Oct. 2018	Civil Engineering	"Traffic Volume Survey"	-	Theem COE
19	12 Oct. 2018	Electrical Engineering	Industrial Visit to "Great White Global Pvt. Ltd."	Mr. Richard Aruldas	Theem COE
20	15 Oct. 2018	Electrical Engineering	"Industrial Visit"	Mr. Arun Bhatt (HR manager)	Theem COE
21	03 Nov. 2018	Information Technology	"IOT Based Projects Exhibition"	Hon. Sharif Thim (Director)	Theem COE
22	20 Oct. 2018	Automobile Engineering	"Industrial Visit"	Dr. K.C. VORA	Theem COE
23	19 Oct. 2018	Information Technology	"Industrial Visit"	CETTM MTNL	Theem COE
24	10 Oct. 2018	Automobile Engineering	"Theem Excellence Centre Automobile" Inauguration	Mr. Juned Sharif, Director of Niton Valves, Mumbai	Theem COE
25	22 Oct. 2018	Civil Engineering	"Industrial Visit"	G.S. Jadhav, Tarapur Environ. Protection Society	Theem COE
26	15 Oct. 2018	Civil Engineering	Traffic Survey	-	Theem COE

27	08 Oct. 2018	Library	“Book Exhibition”	Mr. Deepak Bhawe	Theem COE
28	12 Oct. 2018	Library	“Workshop on Koha & Lib. Automation”	-	IIT Bombay
29	10 Oct. 2018	Women Empowerment and Grievance Redressal Cell	3 Days Workshop on “Self Defence”	Dr Vijay Patil BAMS Trainer & Mr Akash Bhoje (Mix Martial Arts Academy)	Theem COE
30	15 Oct. 2018	Women Empowerment and Grievance Redressal Cell	Guest lecture on "Laws of Women Safety".	Advocate Mrs. Shweta Metkari, Palghar Court	Theem COE
31	08 Nov. 2018	Computer Engineering	One day workshop on “Artificial Intelligence”	Mr. Sachin Narkhede , Data Scientist, Mumbai	Theem COE
32	28 July, 2018	Computer Engineering	Expert lecture on "Secrets and norms of IT industry"	Mr. Kunal Jadhav	Theem COE
33	28 July, 2018	Computer Engineering	“Student-Alumni Interaction”	Mr. Kunal Jadhav & Ms. Abha Jha	Theem COE
34	10-11-18	Computer Engineering	“Industrial Visit”	CDAC, Pune & ISquare IT	Theem COE
35	11-02-18	Mechanical Engineering	“Industrial Visit”	N.S. Choudhari (Additional Executive Engineer)	Theem COE
36	08-02-18	Mechanical Engineering	Seminar on MEP	Mohd Rafique B (Sr. Mech. Engineer)	Theem COE

Records of Department Achievements

Department of Automobile Engineering

Prof. Wasim HOD

The department of Automobile Engineering is established with a vision to educate students in the field of automobile engineering and achieve excellence to meet the need of industries. The department encourages them to get hands-on experience to become employable technocrats and motivates them for internship to test out all the developed skills how they work in the real world. In second half of the year 2018, the department provided many opportunities to students for experiencing the next level of excellence through seminars, workshops, industrial visits, etc. It conducted seminar on “Service Standards – Service Quality Operations” and “Latest Trends in Automobiles” and organized Industrial Visit at companies like Volkswagen Plant Pune, ST Workshop Palghar, ARAI HTC Unit, ARAI FID Unit. Apart from the above, the department is actively functioning in SAE associated activities and extra-curriculum activities. The following is the report of all.

Sport Achievements

Sr. No.	Name of the Student	Name of the College	Name of the Event	Year	Award Prizes
1	Mr. Jignesh Patil Mr. Adwait Mirkar Mr. Chetan Ithape	University Level	Kabaddi	Sept. 2018	Qualified 4th round
		Yuvasena Event (Shivsena)	Kabaddi	Sept. 2018	Quarterfinal

Internship Records

Sr. No.	Industry/Organization	No. of Students	Year	Sr. No.	Industry/Organization	No. of Students	Year
1	Ericsson Industries	2	2018	16	Perfect Auto Works	1	2018
2	Ganesh Engineering Workshop	1	2018	17	Team Care Automotive Private Ltd.	1	2018
3	Patil Die Maker	1	2018	18	STS Auto Pvt. Ltd.	1	2018
4	Shivam Autozone (india) Pvt. Ltd.	2	2018	19	Lakozy Motors Pvt. Ltd.	1	2018
5	Dahanukar Machine Tool	1	2018	20	Sainath Auto Garage	1	2018
6	Progressive Engineering Works	1	2018	21	Udan Automotive Company LLP	1	2018

7	Windston Springs Pvt. Ltd	1	2018	22	New Roshan Garage	2	2018
8	Elite Techno Groups	1	2018	23	ANN Auto Garage Electricals	1	2018
9	Navin Heavy lifters	1	2018	24	Modi Cars Agencies Pvt. Ltd.	1	2018
10	Vimalnath Automobiles	1	2018	25	Mody Auto Corp Pvt. Ltd.	3	2018
11	Pands Technology Solution	1	2018	26	Prabhanjan Automobiles Pvt. Ltd.	1	2018
12	Sai Tech Engineering Works	1	2018	27	Kishor Automobile	1	2018
13	M/s. Unnati Engineering Works	1	2018	28	Krushna Motors Sales and Service	1	2018
14	J.B. Industries	2	2018	29	Supreme Car Care	1	2018
15	Banai Auto Works Pvt. Ltd.	2	2018	30	Pratik Engineering Works	2	2018

Department of Civil Engineering

Prof. Zulfiqar HOD



The department of Civil Engineering's academic activities emphasize deep understanding of fundamental principles, development of creative ability to handle the challenges of civil engineering and the analytical ability to solve the problems which are interdisciplinary in nature. The teaching-learning process is assisted with digitalized presentation through ICT for students' better understanding.

Industrial Visits (I.V.) are arranged for students to gain practical experience with academics. Here, we reported a visit to "Vangaon MJP Water Treatment Plant" for the benefit of third year students. The resource person Mr. R. D. Dhadwad, Sub Divisional Engineer guided students to know about the total systems of the plant and it was a successful visit.



Dahanu Municipal Council selected our college Civil Engineering department as a consultant of "Third Party Audit" for their civil construction works at the municipal areas. In the month of October 2018, Civil Engineering students along with Prof. Zulfiqar Ahmad and Prof. Sarfaraz Sheikh completed the 'Third Party Audit of 20+ large constructions including road, bridge, buildings of Dahanu Municipal Council. This is one of great practical exposures to our final year Civil Engineering students of 2018-19 batch.

Department of Computer Engineering

Prof. Prashant Rathod HOD

The Department has always been on a high growth path by keeping pace with the current technological trends. Recently, it organized **Web Design Competition** under the head of **Computer Society of India** to inbuilt teamwork among students. Internship and Industrial visits are tactical methods of teaching that helps students to know the academics practically through interaction, working methods and full awareness of industrial practices. Our students are placed in prestigious organizations at both national and international MNC. The following is the record of all.

Paper Publish by Staff

Sr. No.	Name of the Student	Journal/Conference	Title	Year	Paper ID
1	Prof. Prashant Rathod	International Journal for Scientific Research & Development	Network Remote Surveillance	2018	Volume 6, Issue 2, in April 2018 ISSN-23210613.
2	Prof. Rajat Singh	International Journal for Scientific Research & Development	Customized Web Application for NBA	2018	Volume 6, Issue 1, in March 2018 ISSN-23210613.

3	Prof. Muhib Lambey	International Journal of Advance Research Ideas and Innovation in Technology	An Automated Examination System Using Cloud Computing Technology	2018	Volume 4, Issue 2, in March- April 2018 ISSN-2454132X.
4	Prof. Ashraf Siddiqui	International Journal for Scientific Research & Development	Android Application Development for Complete Guide to Fitness & Good Health	2018	Volume 6, Issue 1, in March 2018 ISSN-23210613
5	Prof. Ashraf Siddiqui	International Journal for Scientific Research & Development	Intelligence ChatBot System for College	2018	Development Volume 5, Issue 12, in Feb 2018 ISSN-23210613
6	Prof. Waseem Sultaan	International Journal for Scientific Research & Development	Android Blood Bank	2018	Volume 6, Issues 1,in March 2018 ISSN-23210613
7	Prof. Vinay Sahu	International Journal for Scientific Research & Development	Biometric Based Fingerprint Attendance System	2018	Volume 5, Issue 12, in Feb 2018 ISSN-23210613
8	Prof. Sarita Tiwari	International Journal for Scientific Research & Development	Cloud Management System with Remote URL Upload	2018	Volume 6, Issue 1, in March 2018 ISSN-23210613
9	Prof. Awani Sankhe	International Journal for Scientific Research & Development	Football Hub	2018	Volume 6, Issue 2, in April 2018 ISSN-23210613

Internship/ industrial Visit

Sr. No.	Name of the Student	Workshop	Organization	Duration	Number of Students	Year	Fee per Student
1	Mr. Usama Khatri	Internship	Shurya Technologies Private Limited	01/04/2018 to 30/09/2018	1	2018	#Value!
2	Lal Singh	Internship	Amrit Software	04/02/2018 to 04/04/2018	1	2018	0
3	Se And Te Class	Industrial Visit	Cdac, Pune	11/10/2018 to 12/10/2018	33	2018	3000

Placement

Sr. No.	Name of the Student	Post	Organization	Location	Package
1	Mr. Mihir Trivedi	Jr. Developer	Spacific Home Décor Pvt. Ltd	Mumbai	1.5 Lacs
2	Mr. Pradeep Kamble	M. Sc. In Data Analytics	Dublin Business School	Ireland	####
3	Mr. Sunil Yadav	Assistant System Engineer-Trainee	TCS	Mumbai	3.37 Lacs
4	Mr. Satish Kannojiya	Desktop Support Engineer	Future Focus InfoTech Pvt. Ltd	Jogeshwari Mumbai	1.44 Lacs
5	Mr. Ganesh Raghav	Trainee Software Engineer	Jyotiba IT Solution	Mumbai	1.2lacs
6	Mr. Dilip Saroj	Trainee Software Engineer	Jyotiba IT Solution	Mumbai	1.2lacs
7	Mr. Ganesh Raghav	Associate Trainee Engineer	CMS IT Services	Mumbai	1.2lacs
8	Mr. Darshan Kantawala	Trainee Programmer	Dacorp Digital Ltd	Mumbai	1.2lacs
9	Mr. Mitesh Matre	Associate Trainee Engineer	CMS IT Services	Mumbai	1.2lacs
10	Ms. Priti Mishra	Web Designer	Optron Technologies	Mumbai	1.2lacs

Technical Achievement

Sr. No.	Name of the Student	Name of the College	Name of the Event	Year	Award/ Prize
1	Ms. Devaashree Patole	Vidyalankar Technology Wadala	CSI Quiz Competition	2018	1ST PRIZE-1500
2	Mr. Prathmesh More	Vidyalankar Technology Wadala	CSI Quiz Competition	2018	2nd PRIZE-1500

3	Mr. Shubham Naik	Vidyalankar Technology Wadala	CSI Quiz Competition	2018	3rd PRIZE-1500
4	Mr. Sunil Patil	Vidyalankar Technology Wadala	CSI Quiz Competition	2018	4th PRIZE-1500

Paper Published by Students

Sr. No.	Name of the Student	Class	Journal/Conference	Title	Year	PAPER ID
1	Mr. Ayaz Ansari	BE	International Journal for Scientific Research & Development	Network Remote Surveillance	2018	Volume 6, Issue 2, in April 2018 ISSN-23210613.
2	Ms. Sayali Sane					
3	Ms. Natali Sankhe					
4	Mr. Vikas Tiwari	BE	International Journal for Scientific Research & Development	Customized Web Application for NBA	2018	Volume 6, Issue 1, in March 2018 ISSN-23210613.
5	Mr. Mankeshwar Vishwlarma					
6	Mr. Mihir Trivedi					
7	Ms. Priti Mishra	BE	International Journal of Advance Research Ideas and Innovation in Technology	An Automated Examination System using Cloud Computing Technology	2018	Volume 4, Issue 2, in March- April 2018 ISSN-2454132X.
8	Ms. Namarta Kadam					
9	Ms. Krijal Kadu					
10	Ms. Pooja Tiwari					
11	Mr. Ganesh Raghav	BE	International Journal for Scientific Research & Development	Intelligence ChatBot System for College	2018	Volume 6, Issue 1, in March 2018 ISSN-23210613
12	Mr. Dilip Saroj					
13	Mr. Salman Shaikh					
14	Mr. Aadil Shaikh	BE	International Journal for Scientific Research & Development	Android Blood Bank	2018	Volume 6, Issue 1, in March 2018 ISSN-23210613
15	Mr. Pratik Shinde					
16	Mr. Savalaram Redkar					
17	Mr. Mitesh Mahtre	BE	International Journal for Scientific Research & Development	Biometric Based Fingerprint Attendance System	2018	Volume 5, Issue 12, in Feb 2018 ISSN-23210613
18	Mr. Dheeraj Shukla					
19	Mr. Brijesh Yadav					
20	Mr. Ayan Usmani	BE	International Journal for Scientific Research & Development	" Football Hub	2018	Volume 6, Issue 2, in April 2018 ISSN-23210613
21	Mr. Sartaj Siddiqui					
22	Mr. Ankit Dubey					
23	Mr. Darshan Kantawala	BE	International Journal for Scientific Research & Development	Cloud Management System with Remote URL Upload	2018	Volume 6, Issue 1, in March 2018 ISSN-23210613
24	Mr. Amit Bamane					
25	Mr. Jigar Gupta					

Electronics & Telecommunication Engineering (EXTC)

Prof. K. M. Attarde HOD

The telecommunications industry is the fastest growing sector in the world and it is projected to become the second largest telecom market globally. The EXTC department is committed to excellence in teaching-learning process by providing admirable infrastructure, well-equipped laboratories and resources with highly qualified, experienced and dedicated staff. The department has determined to produce leading quality engineers who bring great laurels to institute, society and nation at large. The students always excel in co-curricular and extracurricular activities through the process of best practices such as practical oriented approach, technical talks and workshops, seminars, project competitions, technical quiz competitions, Industrial visits and preparation for aptitude tests, etc.

Technical Achievements

Name of the Staff	Online Course	Title	Conducted By	During
Rajesh Patil	NPTEL online certification	Discrete Time Signal Processing	IIT Kharagpur and awarded with Elite	Aug-Sept 2018 (8 Weeks)

Rajesh Patil	NPTEL online certification	Digital Image Processing	IIT Kharagpur and awarded with Elite	Jul-Oct 2018 (12 Weeks)
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Student Achievements

Workshop/Internship/Implant Training/Certification	Organization	Duration	Days	Number of the Students	Name of the Students
Internship	TEC system, Dombivli	12 June to 11 July 2018	30	2	Rahul Gupta Alok Jha
Implant Training	Coppertrack Industries, Nasik	24 June to 08 July 2018	15	4	Jaydip Shiyara, Tayaba Quadri, Rutika Kolhe, Bhakti Yadav

The department students presented research papers on Multicon-2018 on 23 and 24 February, 2018 at Thakur college of Engineering and Technology, Kandivali Mumbai. Later on, it is published in Multicon-CETE-2018 conference proceedings in the month of July, 2018.

Sr. No.	Name of Candidate	Title	Class	ISBN: 978-0-9994483-2-8
1	Avinash Kudwal	Smart Mirror Using Voice Control	BE	Page No. 13 to 20
	Aditi Patil			
	Prof. Nirajsingh Yeotikar			
2	Shahbaz Ahmad Shaikh	Home Automation Using IOT		Page No. 21 to 26
	Shyamshankar Dubay			
	Anam Naaz Shaikh			
3	Rahul Indulkar	Smart Floor Cleaner Machine		Page No. 7 to 12
	Prof. Sayyed Amjed Ali			
4	Suraj Ajay Upadhyay	IoT Based Scrolling Display Message Display System		Page No. 1 to 6
	Nitin Arun Thakre			
	Sarvesh Tiwari			
	Kavita Jibhau Pagare			
	Prof. K. N. Attarde			

Department of Electrical Engineering

Prof. Elahi Shaikh HOD

Our college Electrical Engineering Department is very strong in providing innovative research and high quality teaching-learning process. I believe that there are still many opportunities, where the department can move to the next level of excellence and maintain the pace with the industry requirements. Students are encouraged to get hands-on experience to become employable technocrats. They are also motivated to involve in conference, workshops and quiz and to take part technical, sports and cultural activity at intercollegiate competition. The following is the record of all.

Paper Published by the Staff

Sr. No.	Name of the Staff	Journal/Conference	Title	Year	Paper ID
1.	Prof. Raees Ahmad	IC-CSOD 2018	A Literature Review on Drowsiness Detection System	2018	ISBN: 978-0-9994483-2-8 Paper ID 82
2.	Prof. Rahatullah Khan	IC-CSOD 2018	A Literature Review on Drowsiness Detection System	2018	ISBN: 978-0-9994483-2-8 Paper ID 82
3.	Prof. Rakesh Kushwah	ICSCET 2018	Parallel Operation of inverters with droop control of voltage and frequency	2018	10.1109

Internship

Sr. No.	Name of Student	Name of Industry	Class	Date
1.	Mr. Amjad Mohd. Islam Ansari	Rexnoid Industry Pvt. Ltd, Mumbai	B.E	20/03/2018 to 18/08/2018

2.	Mr. Hardik Chandrakant Raut	Nuclear Power Corporation of India Ltd., Tarapur	B.E	13/06/2018 to 03/07/2018
3.	Ms. Khushboo Tabassum Shaikh	The Brihan Mumbai Electric Supply & Transport Undertaking,	B.E	17/12/2018 to 15/01/2019

Sr. No.	Name of the Resource Person	Name of the Event	Number of Students	Year
1.	Mr. Nachiket Kulkarni, N Kenin Transformers, Latur	Design of Single & Three Phase Transformers	56	2018

Industrial Workshops

Sr. No.	Workshop	Organization	Duration	No. of Students	Year	Fee per Student
1.	Design and Testing of Three Phase Distribution Transformer	N Kenin Transformers, Latur	19/12/2018 to 23/12/2018	47	2018	1200

Placement

Sr. No.	Name of the Student	Designation	Organization	Location	Package
1	Mr. Anand Negi	Graduate Engineer Trainee	A-1 Fence Products Company Pvt. Ltd.		CTC : 300, 000/-
2	Mr. Kiran Jadhav	Electrical Engineer	Trans Island Electromechanical LLC, UAE	UAE	CTC : 1500AED

Department of Information Technology

Prof. Harshal Patil HOD

Our Institute's Department of Information Technology seeks to combine excellence in education and research to the industry service, which could cope with the fastest growing and demanding IT fields all over the world. Our goal is to train our students with a balance of intellectual and practical experiences so that they can be compatible at national and international level and serve for variety of societal needs. Our highly qualified faculty nurtures students to become eminent professionals, project managers, system analysts, entrepreneurs in their careers.

Besides academic activities, students are encouraged to participate in various national/international seminars, workshops, paper presentation on research work, co-curricular and extra-curricular activities and it's the results are as follows:

Technical Achievements

Paper Published by Staff and Students

Sr. No.	Name of the student	Class	Journal/conference	Title	Year	Paper ID
1.	Mr. Rajendra Patil	BE	IOT - Reconnecting the World (Conference) at VPM Poly- technique, Thanse	Voice and Gesture Based Smart Home Automation using Raspberry PI	2018	
	Mr. Aakash Yadav					
	Mr. Sagir Khan					
	Mr. Sujeet Prajapati					
	Prof. Khalil Pinjari					

Internship/Industrial Workshop

Sr. No.	Name of the Student	Name of the College	Name of the Event	Year	Award/Prizes
1	Mr. Sagar Bavsar	RGIT, Andheri	Artificial Intelligence & Machine Learning (Workshop + competition)	2018	Second Rank
	Mr. Khan Harris				
2.	Mr. Vividh Tare	RGIT, Andheri	Artificial Intelligence & Machine Learning (Workshop + competition)	2018	Second Rank
	Mr. Prathmesh Chaudhari				
	Ms. Pratiksha Pimple				
	Ms. Rajvi Mhatre				

Sr. No.	Workshop	Organization	Duration	No of the Student	Year	Fees
1	Google SEO	M/s Suven Consultancy	1 Day	37	2018	Rupees 200/-
2	IOT Workshop	ROBOKART in association with Innovation Cell IIT Mumbai	2 Day	57	2018	Rs.600/-
3	Technical Talk on 'Career in IT'	Prof. Parag Nivsarekar, Aditya Institute Of Management Studies And Research	1 Day	78	2018	NIL
4	Guest lecture on 'Industry Perspective of NET'	Mr. Suksagar Tiwari Eclinical Works, Mumbai	1 Day	69	2018	NIL

Placement

Sr. No.	Name of the Student	Designation	Organization	Location	Package
1	Mr. Tanmay Sarkar	Assistant System Engineer-Trainee	TCS	Mumbai	3.37 L
2	Mr. Aakash Yadav	Software Developer	Parametrix	Mumbai	2.5 L

Sports Achievements

Sr. No.	Name of the Student	Name of the College	Name of the Event	Year	Award
1	Mr. Raj Vishwakarma		Cyclotrots Freedom Kota, Rajsthan	2018	Elite 1200Km
			Ganeshpuri Cross MTB Race 2018, Vasai	2018	16 Place out of 100

Department of Mechanical Engineering

Prof. Pramod HOD

I am very pleased to report regarding the activities done by students as well as faculties. We always motivate and support the student in every new kind and reengineering activity. Our faculties and students always work on technical topics such as Design and Analysis of Roll Cage for All-Terrain Vehicle and Design and Fabrication of Thermoelectric Cooling and Heating Jacket. We focus on practical knowledge for students and arrange seminar, workshop, technical events and guest lecture. We do guiding and counseling for presenting research paper for careers because research is very much important in case of any advancement of productivity, performance and efficiency. Here are some reports:

Paper Published by Staff

Sr. No.	Name of the Staff	Journal/Conference	Title	Year	Paper ID
1	Prof. Guruprasad Y. S.	International Journal of Advanced Scientific Research and Management	Design and Analysis (Static) of the Roll Cage For an All-Terrain Vehicle (ATV)	2018	ISSN 2455-6378
2	Prof. Amit Mane	Journal of Advance Research in Dynamial and Control Systems	Design and Fabrication of thermoelectric Cooling and Heating Jacket	2018	ISSN 1943-0233X

Paper Published by Students

Sr. No.	Name of the Student	Class	Journal/Conference	Title	Year	Paper ID
1	Mr. Atharva Betawadkar, Mr. Jatin Chaugule Mr. Sannit Vartak	BE	International Journal of Advanced Scientific Research and Management	Design and Analysis (Static) of the Roll Cage For an All-Terrain Vehicle (ATV)	2018	ISSN 2455-6378
2	Mr. Abdul Hanan M Chunewala Mr. Chetan D Patil Mr. Sunil S Aade Mr. Shailesh g Gharat	BE	Journal of Advance Research in Dynamial and Control Systems	Design and Fabrication of thermoelectric Cooling and Heating Jacket	2018	ISSN 1943-0233X

Internships/Workshops

Sr. No.	Workshop	Organization	Duration	No of Students	Year	Fee per Student
1.	MEP	Mohd. Rafique Wallibhai (Mep-Tech Pvt. Ltd.)	1 hour	125	2018	NA

Department of Applied Science and Humanities

Professor Emily Ghosh (HOD)



In every semester, the Department of Applied Science & Humanities conducts syllabus based “Talent Show Competition” for first and third year students. The “Talent Show 2018 on Interpersonal Skills Presentation” was conducted to develop fifth semester students’ effectiveness in competition. It was held on Thursday, 11 October, 2018 at Seminar Hall 1. The chief guest was our college Director Mr. Sharif Thim, the guest of honour was Principal Dr. N. K. Rana and the jury was Prof. M. A. Gulbarga, Prof. Wasim Khan and Prof. Shrikrishna Sonavane.

The competition was conducted by third year Mechanical and Civil Engineering students and coordinated by Prof. M. S. Balasubramani.



Sr. No.	Name of the Student	Department	Remarks
1	Mr. Sushrit Patil	Mechanical ‘B’ Division	First Prize
2	Mr. Parag Raut	Mechanical ‘B’ Division	Second Prize
3	Ms. Urvi Rana	Computer	Second Prize
4	Mr. Mehul Surti	Mechanical ‘B’ Division	Third Prize
5	Ms. Unnati Patil	Electronics & Telecommunication	Third Prize

Winners were awarded with Souvenirs and Certificates. Congratulations to all the winners and appreciation to all the participants and the conduction team. It was really a wonderful co-curricular activity to improve our students’ communication skills.

Sr. No.	Name of the Staff	Department	Title	ISBN: 978-93-87572-73-7
1	Prof. M. S. Balasubramani Director Mr. Sharif Thim	Humanities	Skill Development for Skilled India	Multicon-W 2018, Content 69, Page No. 345 to 350

Central Library Services

Web Online Public Access Catalogue (Web OPAC): The Central Library has more than 20, 000 books and its bibliographic records are made available through *Computerized Catalogue Search Services* which can be accessed on Web Online Public Access Catalogue (OPAC). The library facilitates sufficient number of computers in user’s area to access the OPAC on URL: <http://10.0.0.40/webopac/home.html>. Even this can be possible to search on the following elements of bibliographic records:

- Library Catalogue – Basic Search, Free-text Search, Boolean Search and Advanced Boolean Search
- Library Catalogue – Member Status, Advanced Search
- Books Renewal

- New Request
- Want to Claim Books

If you face any trouble or doubt to access WEB OPAC, please contact the Librarian.

Library Digital Attendance System: The central library has started Library Digital Attendance System. The library users should scan their ID card on barcode scanner at both times in and out for the attendance and for using library resources.

Database Services: The Central Library has also started Database Services (E-resources) to provide easy services to the staff and students for finding thousands of books, research articles, videos, audios, competitive exams, GATE exam materials, syllabus and question papers, etc. within the college premises through LAN and it is made available on: <https://drive.google.com/open?id=1RIp2-HEPkJnDvwYt7ANM89NvFHjX4MsL>

QR Code Technology: The Central Library is a treasure house of knowledge, which has high quality and rich information resources to provide free services to the users. As increasing the use of mobile technology, the library implemented mobile based QR Code Technology to connect the user to the information resources such as books, magazines, newspapers, question papers, project reports, list of CD/DVD and so many reading materials. Now, the staff and students can avail it through their mobile phones at any time.

Book Exhibition: The Library organized a book exhibition on 10 October, 2018 in which 25 prominent publishers like McGraw Hill, Pearson Education, PHI, WILEY, Oxford University Press, CBS, TERI, ANE BOOKS, VIKAS, NAROSA, Laxmi Publications, NEW Age, etc. They displayed their publications such as Engineering, General books, Environment, Management and others. The inauguration was started at 10.00 a.m. Prof. Balasubramaniam welcomed the guest and elucidated the importance of the book exhibition that provides the staff and students a platform for directly interacting with different publishers. The chief guest Mr. Deepak Bhawe, President HR, Viraj Steels Ltd., Boisar (E) in presence of the Secretary Dr. Shaukat Ali Shah, Director Mr. Sharif Thim, Principal Dr. N. K. Rana, HODs, senior faculties and students, inaugurated the exhibition. The chief guest in his addressing highlighted that the books are the best friends of human beings and by adopting the habit of reading; it builds the power of knowledge. All the department staff and students nearly 2000 are visited the exhibition with great enthusiasm and interest. At the end, Librarian Mr. Ashraf Shah expressed vote of thanks to all. The book exhibition was a grand success.



Koha Workshop: The institute conducted one-day workshop on “Koha - *Library Management Software*” on Friday, 12 October, 2018 which was organized by IIT Bombay under the agencies of the National Virtual Library of India (NVLII) funded by the Ministry of Culture, Government of India. The workshop was conducted for providing knowledge and training of the software to the benefit of librarian, library staff, system administrator, and computer technical person. The institute invited 43 colleges of Palghar District out of which 16 colleges were taken part. There were live interactions between the remote centre participants and Koha experts at IIT Bombay or IGNOU or both. Prof. Rajat Singh taught four modules whereas Mr. Ashraf Shah educated three modules of Koha software to participants. The workshop activity was successful.



Theem College of Diploma Engineering

Principal Prof. Layak

It gives me an immense pleasure and pride to share my wishes to the newsletter committee that worked on this second edition of Theem E-Newsletter - Volume 1 that includes the report of mid-year activities of Diploma Engineering. The evolution of the institute over a decade has witnessed strong blend of the state-of-art infrastructure and intricately intertwined with human resource. It is committed to provide professional education with thrust on creativity and innovation. The institute organizes fair number of events and seminars in every semester.





I appreciate the students Mr. Zakir Siddiqui & Mr. Sidharth Mishra who won **first prize** in MSBTE sponsored state level **“Paper Presentation”** and another group of students Mr. Talha Siddiqui, Miss. Anjali Purohit, Mr. Zakir Siddiqui and Mr. Chinmay Mhatre who won **third prize** in MSBTE sponsored state level **“Project Competition”** along with their commitment to curriculum. For mechanical engineering students, the department organised a seminar on **“HVAC & MEP Training”** on 02/08/2018 and looking forward a great year ahead with plenty of planned activities. I congratulate all the scorers who made us proud as always by excelling in academic and extra-curricular activities and I wish them a great success in their future endeavour. I am very glad to present here the report of the entire departments.

Civil Engineering

Paper Published by Staff

Sr. No.	Name of the Staff	Journal/Conference	Title	Year	Paper ID
01	Prof. Khan Md. Muhateshem	International Research Of Engineering & Technology	Analysis of Different Shape of Building	Nov. 2018	P-ISSN-2395-0072
02	Prof. Khan Md. Muhateshem	International Journal For Scientific Research	Design of Different Shape of Building	Dec. 2018	IJSRDU6I 100194

Staff Training and Development

Sr. No.	Name of the Staff	Industry/ Institute	Title	Year
01	Prof. Khan Md. Muhateshem	Government Polytechnic, Karad	Hands on Skills of Advanced Surveying Instruments And Techniques	Oct. & Nov. 2018
02	Prof. Sarfaraz Shaikh	Dirk India Private Limited	Industrial Training	Oct. 2018
03	Prof. Ansari Abid	Dirk India Private Limited	Industrial Training	Oct. 2018
		Government Polytechnic, Karad	Hands on Skills of Advanced Surveying Instruments And Techniques	Oct. & Nov. 2018
04	Civil Engineering Teaching Staff	Theem College of Engineering, Boisar	Hands on Practice on Moodle	July, 2018

Computer Department

Guest Lectures /Expert Lectures

Sr. No.	Guest Lecture/ Expert Lecture	Anchor Name	Duration / Date	No. of Students	Class
1	Software Training Programme on Estimating & Costing	Mr. Shivaji Patade, Pune	23 July, 2018	49	T.Y.
2	Risk assessment in Construction	Mr. Abhishek Panchal, Manager, RICS, School of Built Environment, Amity University	29 August, 2018	49	T.Y.

Industrial Visits

Sr. No.	Visit	Industry/site	Duration /Date	No. of Students	Class
1	Calculating Quantity By Field Measurement.	Ostwal Queen's Villa, Boisar	25 September, 2018	49	T.Y.
2	Record the observation of plastering and pointing work at construction site.	Ostwal Queen's Villa, Boisar	25 September, 2018	16	S.Y.
3	Construction Site with respect to scaffolding formwork and centring.	Ostwal Queen's Villa, Boisar	25 September, 2018	16	S.Y.

4	Water Treatment Plant visit	MJP, WM, Sub-Division, Vangaon	4 October, 2018	49	T.Y
5	Sewage Treatment Plant visit	Global City, Virar(W)	4 October, 2018	49	T.Y

Industrial Workshop

MSBTE organized a Faculty Development Training at FESTO India Private Limited, Santa Cruz Mumbai that is well-known for the production of Pneumatic Valves and the production of Automations Equipment and Products. The faculty development programme was conducted from 17/01/2019 to 19/01/2019 in which we have learned the various basic concepts of the pneumatic valves and their functions which is very important in industries.

Sr. No.	Workshop	Organisation	Duration	Name of the Staff	Year
1	Workshop on Basic Pneumatic System	Festo India Private Limited, Santacruz, Mumbai	17-01-2019 to 19-01-2019	Prof. Santosh Dubey	2018-2019
2	Workshop on Basic Pneumatic System	Festo India Private Limited, Santacruz, Mumbai	17-01-2019 to 19-01-2019	Prof. Shoeb Khan	2018-2019
3	Workshop on Advance in Automation	Thakur Polytechnic, Kandivali, Mumbai	26/11/2018 to 30/11/2018	Prof. Suraj Wankhade	2018-2019

Sports Achievement

Sr. No.	Name of the Students	Name of the College	Name of the Event	Year	Award and Prizes
1	Chanvan Pradum Gokul	CM Chashak 2018-2019 Dist. Palgahr	Kusti Boys 58-65 Weight Category	2018-2019	First Prize

Diploma Applied Science and Humanities

Co-ordinator Prof. Abid Manyar

Applied Science and Humanities has become a strategic function in every field of engineering, which improves teaching-learning process by adopting and achieving learning abilities through practice, exposure and motivation. The department inculcates courage and creativity among students to approach every challenge with an analytical and agile mind to transform engineering and applied sciences to create a better tomorrow. Here, the department reports the achievement of the staff and students as follows:

1. Prof. Shrikrishana Sonawane successfully cleared NET exam in 2018.
2. Prof. Ambuj Tiwari successfully cleared SET exam in 2018.
3. Mr. Yash Ravi Kushalkar won gold medal in "Mix Boxing" at National level.

Training and Placement Office

Reported by the Officers – Prof. Amjed and Prof. Raees

The Training and Placement Office is not only striving hard to bring opportunities in for students but also training them for better placement. The training enhances employability skills among students to face on and off campus interviews and to meet the corporate expectations. Right from the first year, students are provided training in aptitude test, soft-skills, and technical programming skills. The continuous training module builds their confidence with quality.

Training and Placement Cell conducted various drives such as In-campus, Pool Campus and On-site from August 2018 to December 2018 for providing job opportunities to 2018 and 2019 Batch students. The following is our placement records:

Sr. No.	Placement title	Company	Type of Drive	Branch for which Drive scheduled	Batch	Package Offered
1	Full time & Intern for Business Development	EduPristine	Onsite	All Branches	2015/16/17/18	2.4-3.0 LPA +Incentives

2	Software Developer	Atos Syntel	Pool Campus	Comp/IT/ETRX/EXTC	2018	3.0 LPA
3	Software Developer	Pratian Technolgies Pvt Ltd	Pool Campus	Comp/IT/ETRX/EXTC	2019	4.0 LPA
4	Global Business Solution / Global Technology Services	IBM	Pool Campus	Comp/IT/ETRX/EXTC	2017/18	3.2 LPA
5	Tech Support	Infosys	Pool Campus	All Branches	2017/18/19	3.0 LPA
6	Cloud Operation Team	QAD	Pool Campus	Comp/ IT	2017/18	2.5 LPA
7	Software Developer/QA Engineer/Business Analyst/Web/Mobile App Designer	Finclusion	Pool Campus	Comp/IT/ETRX/EXTC	2017/18	2.8 LPA
8	Sales Application Engineer	Keyence India Private Limited	Pool Campus	Electrical/Mech/Auto /Civil	2018	3.7 LPA
9	Business Analyst	Mirraw	Pool Campus	Comp/IT/ETRX/EXTC	2019	3.50 LPA
10	Data Analyst	eTouch	Walkin	Comp/IT/ETRX/EXTC	2016/17/18	2.11 LPA
11	JTE	Audi Gujrat	Onsite	Auto/Mech	2018/19	3.5 LPA
12	Trainee Sales Consultant	Audi Gujrat	Onsite	Auto/Mech	2018/19	3.6 LPA
13	Executive	Hinduja Global Solutions	Pool Campus	All Branches	2015/16/17/18	2.4 LPA
14	Trainee Engineer	Systematic Group of Companies	Onsite	Electrical/Mech	2017/18	1.8 LPA
15	Software Developer	Miniorange	Onsite	Comp/IT/ETRX/EXTC	2018/19	3.0 LPA
16	Software Developer	BridgeLabz Solutions	Pool Campus	Comp/IT/ETRX/EXTC	2019	3.5 LPA
17	Multiple Positions	Chavare Engineering Pvt Ltd	Onsite	Electrical/EXTC/ETRX	2018	2.5-3.0 LPA
18	Software Developer	Capgemini	Pool Campus	Comp/IT/ETRX/EXTC	2018	3.2 LPA
19	Software Developer	Milearth softech	Pool Campus	Comp/IT	2014/15/16/17 /18	4 LPA
20	Software Developer	Quinnox Consultancy	Pool Campus	Comp/IT	2018	3 LPA
21	Hardware and Networking Engineer		Onsite	Comp/IT/ETRX/EXTC	2018	1.8 LPA
22	Multiple Positions	CSS Corporation	Pool Campus	Comp/IT/ETRX/EXTC	2017/18	2.2 LPA
23	Software Developer	Medicalwale.ocm	InCampus	Comp/IT/ETRX/EXTC	2019	1.44 - 3.0 LPA
24	Multiple Positions	Wipro	Pool Campus	All Branches	2018	3.5 LPA
25	Software Service	Fujitsu	Pool Campus	All Branches	2017/2018	3.5 LPA
26	Salesforce Administrator	Cognizant	Pool Campus	All Branches	2017/18	3.5 LPA
27	Apprentice Trainee Engineer	Erricson	Onsite	EXTC/ETRX	2017/18	1.8LPA
28	Quality Control Engineer	Quality Kiosk Technologies Pvt. Ltd	Onsite	Comp/IT/ETRX/EXTC	2018	2.14 LPA
29	Software Developer	Infogain	Pool Campus	Comp/IT/ETRX/EXTC	2018	3.5LPA
30	Multiple Positions	Capgemini	Pool Campus	All Branches	2018	3.2 LPA
31	Software Developer	Paramatrix	Pool Campus	Comp/IT/ETRX/EXTC	2019	3.0 LPA
32	Software Developer	Nucsoft	Pool Campus	Comp/IT	2019	3.2 LPA
33	Production Engineer		Onsite	Mech	2018	

34	Production Engineer	Viraj Pvt Ltd	Onsite	Mech/Electrical	2018	
35	Quality Control Engineer	Nutec Pvt Ltd.	Onsite	Mech/Electrical	2018	
36	Software Engineer	TCS	All India Level	All Branches	2019	3.5 LPA
37	Software Engineer	Wipro	All India Level	All Branches	2019	
38	Software Engineer	VRAIO	InCampus	Comp/IT/ETRX/EXTC	2019	2.5 LPA
39	Quality Control Engineer	Accurex Pvt Ltd.	Onsite	Electrical/ETRX/EXTC	2018	1.8 LPA
40	Quality Control Engineer	Accurex Pvt Ltd.	Onsite	Electrical/ETRX/EXTC	2018	1.8 LPA
41	Junior Engineer	JIO	Pool Campus	ETRX/EXTC/COMP/IT	2019	2.4 LPA
42	Trainee Programmer	Datacomp	Pool Campus	Comp/IT/ETRX/EXTC	2019	3.2 LPA
43	Software Engineer	Symantec	Pool Campus	Com/IT	2019	3.2 LPA
44	Graduate Trainee Engineer	Ashok Leyland	Onsite	Mech/Electrical/Auto/E E	2018	3.0 LPA
45	Trainee Engineer	Amazon	Pool Campus	Comp/IT/ETRX/EXTC	2019	3.9 LPA
46	Business Development Associates	Byju's	Pool Campus	All Branches	2019	6LPA
47	Software Engineer	Nucsoft	Pool Campus	Comp/IT	2018/19	3.0 LPA
48	Trainee Engineer	Swabhav Tech Lab	Pool Campus	Comp/IT	2018/19	2.6-3.5 LPA
49	Software Engineer	Shujabits Infotech	Pool Campus	Comp/IT	2017/2018	3.0 LPA
50	Software Engineer	IFI Technologies	Pool Campus	Comp/IT	2018	3.2 LPA

Learning Point – *Techno News*

Technology Holds the Key to Unlock Your Future

Dr. N. K. Rana

Technology grows in very fast pace and takes shapes in times with some advancement and become the reality to drive the world forward.

Virtual Reality: Virtual reality, that uses computer technology to create a **simulated** environment, shows the view of artificial images **like animated** scenes or photographs of actual places completely in different reality than the one in front of you. Even, it includes a virtual reality application that helps you to move around and look in every direction - up, down, sideways and behind as if you were physically over there.

Augmented Reality: Augmented reality is defined as an **enhanced** version of virtual reality created by the use of technology to add digital information on an image of something. It is used in apps for smartphones and tablets. Especially in phone's camera, it is used to show you a view of the real world in front of you, then put a layer of information including text and/or images, on top of that view. Apps can use augmented reality for information as the app Layar and for fun as the game Pokémon GO. The Layar app can show you interesting information about places you visit and you can read information that appears in a layer over your view.

Many of the top augmented reality companies are seeing great success by helping seasoned industries adopt and apply this new technology for their unique business needs. A strong example of augmented reality in use is in the field of healthcare. From a routine check-up, to a complex surgical procedure, augmented reality can provide immense benefits and efficiencies to both patient and healthcare professional.

How Augmented Reality is controlled: Augmented reality devices use touch pads, which is easily reachable. These touch pads are often controlled by either touch (sensing the pressure changes by taps or swipes a specific spot) or voice commands. Like smartphones, a tiny microphone on the device picks your voice up and then a microprocessor

will interpret the commands. Voice commands, such as those on the Google Glass augmented reality device, are pre-programmed from a list of commands that you can use. On the Google Glass, nearly all of them start with “OK, Glass,” which alerts your glasses that a command is soon to follow. For example, “OK, Glass, take a picture” will send a command to the microprocessor to snap a photo of whatever you are looking at. The virtual reality is going to play a big role in medical science field and finally help humankind for medical procedures, the example given here will explain the use and future scope of virtual reality.

Physical Examination: Imagine that you walk into your scheduled doctor appointment, only to find your doctor wearing an augmented reality headset (e.g. Google Glass). Although it may look strange, this technology allows him/her to access past records, pictures, and other historical data in real-time to discuss with you. Instantly accessing this digital information without checking a records room proves to be a major benefit to healthcare professionals. Integration of augmented reality assisted systems with patient records management technologies is already highly desirable utility.

Surgical Procedures: Let us take this example one-step further and imagine that we are going in for a surgical procedure. Before the anaesthesia takes effect, we notice that the doctor is wearing an augmented reality headset. The doctor will use this throughout the procedure for things such as display of surgical checklists and display of patient vital signs in a dashboard fashion. Augmented reality assisted surgical technologies assist professionals by providing things such as interfaces to operating room medical devices, graphical overlay-based guidance, recording and archiving of procedures, live feeds to remote users, and instant access to patient records. They can also allow computer-generated images to project onto any part of the body for treatment or can be combined with scanned real time images.

The benefits of using augmented reality include a reduced risk of delays in surgery due to lack of familiarity with new or old conditions, reduced risk of errors in performing surgical procedures, and reduced risk for contamination if the device allows surgeons to access information without having to remove gloves (i.e. hands-free) to check instruments and data. Is not it amazing?

This generation is going to witness a sea change in these future technologies and therefore they need to explore in it. The expert in these areas will be counted and will hold the respect as well as career growth. So gear up, choose your future wisely to shape the world.

Data Science

(Ms. Humira Gilani T. E. Computer)

Introduction: Data Science is similar to Data Mining, which is programmed with the combination of scientific methods, processes, algorithms and systems. Data Science extracts knowledge and information from big data by statistics, analysis, machine learning and related methods. Over a time, Data Science has drastically replaced various concepts like business analysis, business intelligence, predictive modelling and statistics because it involves organizing, preserving, packaging, and delivery of the data. Almost, all the business organizations use big data and they shifted to Data Science which helps them for an urgent need to collect and preserve data and not to miss anything important and to take decisions regarding further moves or investments.

Scope: Today, due to involvement of *Machine Learning* and *Artificial Intelligence*, everything has become automated. The automation has replaced menial work but use of Data Science can fill this gap and find work opportunities in areas where machines do not have any role to play. Having relevant qualification and expert skills in this field, Data Science Professionals can certainly make superior to others.

Some of other fields related to Data Science are *Data Scientists*, *Data Architect*, *Data Engineer*, *Data Analyst*, *Statistician*, *Database Administrator* and many more. The demands for this field are growing tremendously in India as well as in abroad. These professionals just need to monitor, analyse, predict, represent, modify and secure the growth pattern of Market and help industries to flourish according to these patterns. This can enhance productivity and business gain.

Analysis: According to recent studies, the demand of Data Science professionals has increased over the past years. India is the second to United States of America in recruiting Data Science professionals because Data Science is the fastest growing sector almost in every sector. The major cities like Bengaluru, Delhi NCR and Mumbai recruit Data Science professionals with a median salary of *Rupees 617,096* per annum. The experts can earn more than *15 lakhs per annum* and it increases further proportionally to the years of experience. Demands for Data Science professionals

have increased by 26% worldwide and it will be 50% by 2019. In countries like Australia, United Kingdom the average annual salary of these professionals is above 120,000 dollars as per experience. These countries face stiff challenges in meeting demands of skilled Data Analysts. Europe, Middle East and Africa are headquarters of IT technology giants like Google, Microsoft, Facebook, Twitter, Yahoo, etc., and hence demand for Data Science professionals in these Countries is obvious.

To enter in the field of Data Science, one must develop the following skills:

- Mathematical Foundations
- Computational Foundations
- Statistical Foundations
- Data Management and curation
- Data Description
- Data Visualization
- Data Modelling and Assessment
- Workflow and Productivity,
- Communication and Teamwork
- Domain-specific Considerations and
- Ethical Problem Solving

The demand of Data Science professionals is very high due to advancement of big data in organizations like *Healthcare, Banking, E-Commerce, Telecommunications, Biotechnology, Pharmaceuticals, Energy and Automotive Industries*. Hence, the Data Science will be evergreen and is irreplaceable.

Learning of Data Science:

There are many Data Science books are available in the market. A few is presented over here to check.

- *Fundamental Concepts and Algorithms* (free download) by Mohammed Zaki and Wagner Meira Jr.
- *Data Science for Business* by Foster Provost and Tom Fawcett, “*What you need to know about data mining and data-analytic thinking*”.
- **Data Mining: Practical Machine Learning Tools and Techniques** by Ian Witten, Eibe Frank, and Mark Hall.
- *The Elements of Statistical Learning, Data Mining, Inference, and Prediction* by Trevor Hastie, Robert Tibshirani, Jerome Friedman. (It is a great introduction to mathematically oriented.)
- *Learning and Intelligent Optimization (LION)* by Roberto Battiti and Mauro Brunato, freely available on the web, chapter by chapter.
- *Mining of Massive Datasets Book* by A. Rajaraman, J. Ullman.
- *Stat Soft Electronic Statistics Textbook* (free), this includes many data mining topics.

Scientific Health

(Editorial Committee)

Let us discuss about fruits. Let me start with a question.

Suppose, I have a medium size unripe banana that has about 25 gram of sugar but it will not have the sweet taste. After 4 days or so, it would ripe and taste sweet. Now, how much sugar will it contain? Will it be the same as before or less or more?

Majority of us think that the sugar level will be higher because initially it was 25 gram without sweet taste but now it is sweet so it may be more than 50 or 100 gram. How is that possible? From where would that extra sugar come from?

The banana had initially 25-gram sugar and it would have the same amount of sugar even now. At first, it was not sweet but now it has turned into sweet. This is because of some changes in chemical structure of the sugar. So, there is no relation between the sweetness of food and its sugar content. Sweet is just a taste, which has carbohydrate/calorie content of the food.

Let us see another example. An unripe mango will be sour. It will turn into sweet if you allow it to ripe over a week. Both will have the same amount of sugar. The level of sugar will not be increased. Therefore, let us understand that the sweetness of a fruit has no direct relation with the amount of sugar in it.

For example, all the diabetics eat biscuit like Marie or just like other taste. Even the biscuit company of it has never advertised that it is good for diabetics but all the diabetics thinking that it tastes not much sweet so it has less sugar and they can consume it. Where did you read this? The sugar content of these varieties is the same as any other biscuits have.

Then, what about bitter-guard vegetable! It is famous because it tastes bitter and people think that it will fight against sweet taste. It is a wrong belief.

For example, suppose a person has accidentally bitten a chilli, he will suffer from the pungent hot taste. Then, he takes some sugar so that the sweet taste can sooth him/her. The taste of a food has nothing to do with its caloric content. Whatever you eat, the body analysis that it is carb or fat or protein but not taste. The feeling of the taste is only up to the throat.

For the same reason, many diabetics have the habit of eating Margo's leaves or drink its soaked water. So let us understand that bitterness is not equivalent to sugar. I do not know if bitter guard has other molecules that can control diabetes. Even if it has, one should take it regularly twice a day for the effect otherwise consuming it once or twice a week is meaningless. Hence, the taste of sugar is different and everyone must understand it.

The first point about the fruit that we must know is the sugar content has no relation with its sweetness but fruit has fructose. The type of sugar in foods could be glucose ($C_6H_{12}O_6$), fructose ($C_6H_{12}O_6$), or sucrose ($C_{12}H_{22}O_{11}$) but the sugar in the blood is glucose (only glucose). Therefore, whatever form of sugar we eat; it will be broken into glucose by liver. The glucose then enters our blood stream. If someone takes lot of fruits, the fructose in it will be broken into glucose by the liver and thus blood glucose increases. There is no fructose in our blood but some business-minded people advertise that their products add fructose to our blood and reduce blood glucose. If we take glucose powder, the blood glucose will be increased immediately.

Some believe that diabetics should not eat fruits! Generally, all the fruits have fructose and it would increase the blood glucose but the sugar content of fruits is not that high.

Let us look this study. The common food that we eat such as

- One chapatti and cup of milk have about 60-70 calories
- A 100 gram apple has 50 calories
- A 100 gram mango has 60 calories
- A 100 gram banana has 100 calories

Thus, if we compare based on calories, most of the fruits have same or less calories as compare to most of our daily common foods. Our body has to metabolize the calories and it does not differentiate from where it comes from.

For example, people say mango is enemy of diabetics but I wonder that how this conclusion was arrived. A 100 gram mango has 60 calories which is lesser than one chapatti. What about banana! It has 100 calories, which is higher than a mango. It does not mean that the fruits should not be eaten but just pay attention to the amount you eat. We need not differentiate fruits based on sweetness and it could be taken alone; or as a separate meal or any time of the day as one fruit in the morning and mixed fruits at dinner.

At times, people would use a term called "Glycaemic Index (GI)". The GI is a number, which is given to each food based on the rapidity at which the blood glucose increases once it is eaten. Therefore, people can refer the GI and even the diabetics can consume the fruits.

Learning Point – Informative News

Guidance for a Job Interview

Prof. M. S. Balasubramaniam

Portfolio VS Resume

- ❖ A Portfolio is not a resume but the resume is the first personal document in a portfolio

- ❖ A Career Portfolio is comparatively the recent development in a career but a resume presents summary of your past life with future goals
- ❖ A Portfolio is not sent out like a resume but it is normally taken along with the interviewee at the time of an interview
- ❖ A Portfolio is a powerful interviewing tool for all the job-seekers because it presents visually their knowledge, qualities, skills of competencies, etc. but a resume foretells about these all to create good impression

Definition of Portfolio:

Physically, Portfolio is a collection of things that represents work-related events of your life. Your hobbies, interests probably develop your skills that can now be extremely useful in a work-related environment. These accomplished past evidences can be used for demonstrating portfolio that will demonstrate that you are contemporary skilled person.

Worth of Portfolio:

- ✓ Portfolio establishes your habits for documenting and creating personal data on your achievements
- ✓ Portfolio demonstrates the results of your work
- ✓ Portfolio helps you to focus on interview preparation
- ✓ Portfolio communicates your skills clearly to the employer and convinces them to the job requirement
- ✓ Portfolio helps you to assess your progress in your career development

How to Make a Portfolio:

- ✓ At first, look yourself the way the prospective employers would look at you
- ✓ A Portfolio should have the very best of your artefacts such as – achievements, writings, photographs in digital or any other format that could showcase your skills of competencies
- ✓ Next, reflect your personality by presenting your artefacts through - the folder, the content and its organization, relevance of the content, accuracy, style, etc. to impress the employer
- ✓ Always, give careful attention in spelling, grammar, language style, etc.
- ✓ The Portfolio should not be more than 20 pages and it should be checked by your guide

Organization of Portfolio:

- ✓ The first part is Index. It gives a concise overview of portfolio and enables the reader to look at the documents of interest and quickly get an idea about your skills of competencies
- ✓ Next is your resume. It should include brief information about your short and long term goals, work experience, education, and other achievements
- ✓ Then include the copies of all the certificates, awards, reference letters, and any other document which is important
- ✓ At last is *your personal profile* in brief. It includes information of your achievements in co-curricular and extra-curricular activities, attitudes, hobbies, etc.

Note: Your Portfolio gives you the first and the best opportunity to demonstrate your suitability to a potential employer so that make sure that you have the one, which is perfect and truthful in every respect.

Construction of Resume

Definition of Resume:

- ❖ Your resume is a summary of your past life with future goals.
- ❖ Your resume indicates that how seriously you have taken your work in turn and how seriously you should be taken.
- ❖ The first impression is the best impression so your resume should create it with neat and tidy way, error free, well-organized and easy to read.

Two Important Things:

- ❖ **The Content** – How good your credentials such as qualifications, experience, achievements, skills and competencies, etc.

- ❖ **The Presentation** – Even if you have a good story to tell about yourself, it is most important to communicate it properly.

Preparing Resume and its Importance:

- ✓ The information you need to include in the resume should be organised under different headings.
- ✓ For job hunting, resume is the most important tool through which you advertise you to impress your potential employer.
- ✓ It is most important to ensure yourself that your resume is perfect in every aspect with fact and likeable.
- ✓ Often, the prospective employers make a snap judgement as soon as they read your resume.
- ✓ Sometimes, even the most qualified people resume can be failed to catch the attention of the employer so be careful to make your resume.

Basic Format:

- ❖ Begin with your name, address and contact details clearly.
- ❖ Then, mention your skills, experience and immediate career goals.
- ❖ Next, your career history in reverse chronological order with brief descriptions of your responsibilities and achievements.
- ❖ Conclude with your education, interests, personal details, references and promise note with date, place and signature.

Length of Resume:

- ❖ The Length of a resume and title design are depended based on every individual's career history, education and achievements.

Note: Just make sure that you have clearly included your career, progress, education and achievements so that your prospective employer can easily access.

Personal Profile

- A Personal Profile is a marketing tool so use it to market yourself through
 - Projecting a positive image of yours
 - Highlighting your achievements and contributions to showcase that *how you are different from others*
 - Exhibiting a true description of yours such as -
 - ✓ What you are!
 - ✓ How you reached the status where you are now!
 - ✓ Where you want to go further!
 - ✓ Why you want to go ahead!
- Finally, make sure that the preparation of a profile is perfect with all respects such as –
 - No spelling errors
 - No grammatical mistakes
 - Correct use of punctuation
 - Avoid using abbreviations and symbols
 - Using capital letters correctly

Tips for Drafting a Profile:

- It is better to keep a profile short (not more than one page)
- Make it into 3 to 4 paragraphs
- Highlight words/sentences
- Keep the language simple with short sentences

The Prospective Employer uses your profile for...

- To short list the candidate for an interview
- To place you in a ranked list
- To use it during the interview
- To check how honest you are

Congratulation! *Your resume and covering letter have made a good impression on the employer and they have invited you for an interview. Now, you make sure that you have planned as far as possible to face the interview to prove you are honest.*

At interview

Objectives: The most important part of interview selection is that to ask questions for valuing your professional competency and find out your personal attributes and other skills to determine that whether you are the right person for the job and to develop the organization.

The Criteria:

English: Most people want to know how much English is needed to face an interview – the tip is – The effective communication skills in English might actually clinch the deal for you.

Interview Panel: The interview panel could be as a little as three or as high as seven. The panel may include external experts too.

Are you the Right Person for the Job! – If you are, pin-down the following positive qualities –

- Get the fact about yourself clear in your mind.
- You should know your strength and weaknesses ...
- Your positive attributes and negative attributes towards ...
- In what you are good at and what you can improve ...

Note: The interview panel will never go by the qualification because your qualification does not necessarily mean that you possess the necessary skills and competencies.

Personality: Your personality is based on –

- Your appearances, your attitude, communication skills, body language, responding to others, etc. These are to some extent reveal your personality.
- People form an opinion about you whether you are right or wrong or a combination of it.
- Keep smile during the interview that interprets you are able to cope under pressure and you are not a dull person.
- You should try to give an impression that you are –
 - ✓ Not under pressure
 - ✓ Relaxed
 - ✓ Confident
 - ✓ A good learner
 - ✓ Happy to answer the questions
 - ✓ Honest and sincere

Note: If you can achieve these qualities, it is a good start and the rest has to follow in whole interview process is –

- ✓ To be enthusiastic (relax with smile)
- ✓ Attentive (be alert always, maintain good eye contact and nodding occasionally)
- ✓ Be positive

Warning:

- A little humility is always a very positive trait
- Expressing willingness to learn or admitting 'I don't know' defines that you are honest.

Advice:

- ❖ Certainly your sociability will be tested so prove it
- ❖ Impress everyone whom you meet (from peon to CEO)
- ❖ Be prepared to think charm on panel and all
- ❖ Be relaxed, keep your head straight that helps you easy to sell yourself

- ❖ Be positive and face the panel with confidence.

Body language: Body language includes posture, gesture, facial expression; eye movements and pupil dilation, mouth positions and retraction such as stroking your hair, touching your nose/ear, keeping hands close to your face, rolling the moustache, pulling the beard, fixing your hair and curling it behind the ear, etc. Everyone notices these. It is must to be paid enough attention to your own body language because it increases sensitivity to yourself and ability to read other's body language. Increasing attention to the body language helps you to observe the hidden feelings, prejudice and intentions of others.

The Recruiter's Point of View:

- ❖ The employer focuses on those questions that reveal your potential and how you willingly learn from the situation.
- ❖ They expect that you must stand out of the crowd not just being one among many. (Tips – Clarity and impact make you stand out in the crowd.)
- ❖ They study that how you make good use of every opportunity by providing evidence of your achievements from school, college, university, society and home.
- ❖ They check your honesty by asking difficult questions even though they know that answering is not possible – if you do not know the answer, say that “I don't know” but never bluff. They will appreciate your honesty.

Note: It is not necessary to have snap answers ready for every question. In fact, it is important to pause and collect your thoughts before answering. Occasionally, asking for time or asking for repeat the question is useful to gain time.

Speaking a Self-Profile

The following points to be prepared for self-profile speech:

- Say your full name, age, etc.
- Shortly, say your educational background with what you wish to do in life
- Highlight your career and research works
- Say about your special achievements with short and long term goals
- Describe your strengths, weaknesses, opportunities, and threats or challenges
- Say about your hobbies and interests

Tips for Saying Profile:

- Interview is a kind of group discussion
- While speaking your profile, keep a watch on the body language of listeners to check if they are attention to you or not
- If not, try to cut pose with some interesting questions to them
- At the end, this interaction will be able to get an idea of whether they have actively listened you or not

Sports News

Sr. No.	Date/Year	Event & Place	University/Intercollegiate/State Level	Results
1	15-09-2018	Football (Free Style)	State-level Free Style	Winner
2	24-09-2018	Football	University level	Participant
3	13-10-2018	RYFS Football Championship	National Level Championship	Participant

