

INTERNATIONAL CONFERENCE ON INNOVATIVE AND ADVANCED TECHNOLOGIES IN ENGINEERING

(ICIATE 2018)

DATE: 22ND & 23RD MARCH, 2018

VENUE: ATHARVA COLLEGE OF ENGINEERING

ICIATE 2018 CONFERENCE PROCEEDING

ORGANIZED BY



AET'S

ATHARVA COLLEGE OF ENGINEERING

MUMBAI

ATHARVA EDUCATIONAL COMPLEX, MALAD MARVE ROAD, CHARKOP NAKA, MALAD (WEST), MUMBAI-95

TEL.: 91-022-40294949 (30 LINES)

This is proceeding of a conference entitled “International Conference on Innovative and Advanced Technologies in Engineering ICIATE-2018, which was sponsored by Atharva College of Engineering, Malad, Mumbai and held on 21st to 23rd of March 2018.

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Enquiries to

The Editor

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Atharva College of Engineering,
Malad Marve Road, Charkop Naka,
Malad (W), Mumbai, 400095, India

Tel.No. (022) 40294949

Fax: +912240294911

Email ID: iciate18@gmail.com

Conference website: www.aceiciate.in

Website: www.atharvacoe.ac.in

Instruction to authors:

For a paper to be considered for publication it is a pre condition that it is not submitted for publication elsewhere, contains results that are new significant and of interest to a wide section of engineering and science community. Editors may invite papers on special topics of current interest.

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"Any sufficiently advanced technology is equivalent to magic"

Message from Executive President Atharva Group of Institutes



Mr. Sunil Rane
PATRON

It gives me immense pleasure that Atharva College of Engineering is organizing an **International Conference on innovative and Advanced Technologies in Engineering (ICIATE-2018)** during March 21st to 23rd at **Atharva College of Engineering**, Malad, Mumbai.

The central theme of the conference is **"Virtual Reality"**. ICIATE provides an opportunity for meeting of International Researchers, Engineers, Scientists and specialists in the various research and development fields of Engineering and Technology. The conference offers a premise for global experts to gather and interact intensively on the topics of Electrical and Electronics, Electronics and Communication, Computer Science and Information Technology.

I hope eminent speakers will cover the theme virtual reality from different perspectives. I am privileged to say that this conference will definitely offer suitable solutions to the global issues.

The success of this Conference is solely on the dedication and efforts of innumerable people who started working on the preparations for almost a year in many ways to make this Conference become a reality. Eventually I express my special thanks and appreciation to all. I wish ICIATE 2018 all the best for its success.

Mr. Sunil Rane
Executive President
Atharva Group of Institutes
Malad, Mumbai



DIRECTORATE OF TECHNICAL EDUCATION MAHARASHTRA STATE

3, MAHAPALIKA MARG, POST BOX NO. 1967, MUMBAI-400 001

Tel: 22641150, 22641151, 22620601, 22690602, FAX: 2692102/22690007

Internet: <http://www.dtemaharashtra.gov.in>

e-mail : director@dtemaharashtra.gov.in

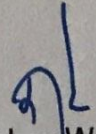


Date : 1st March, 2018

M E S S A G E

India, one of the World's largest economies has made tremendous strides in the economic and social developments in past decades and is poised for even faster growth in the time to come. Great potential exists for increasing productivity by shifting from low technology and subsistence activities in industry, agriculture and service sectors to activities based on advanced, modern technology and knowledge. I believe that this multidisciplinary conference will be one of finest opportunities for academicians, scientists, professionals and researchers of various disciplines from all over the world to share and express their views, discuss the practical challenges encountered and the solutions.

The Atharva College of Engineering will be surely one of those Institutes committed to building a better world for all and the conference "ICIATE-18" will work as catalyst for the same. Hope it will be a splendid event, both in terms of intellectual quality and social gratification.


(Dr. Abhay Wagh)
Director

Directorate of Technical Education M.S.
Mumbai - 400 001



“Research, Technology & Innovation”

From Director’s Desk



Dr. P. N. Nemade
Conference Advisor

I am pleased to welcome you all for the **International Conference on Innovative and Advanced Technologies in Engineering** being organized during 21st to 23rd March, 2018 by Atharva College of Engineering, Malad, Mumbai.

Atharva Campus is a camouflage wealth of knowledge, innovation and technology that lies within. Atharva in itself is a niche of opportunities to all aspiring engineers and researchers. The events in the conference are targeted towards researchers, practitioners, professionals, educators and students to share their experience, innovative ideas, issues, recent trends and future directions in field of Engineering and Science and Technology.

This conference is a unique forum for exchange of innovative ideas, technical expertise for technological advancements etc. in this evergreen field. It includes keynote address from Academicians and paper presentation by research scholars. It is a matter of joy for us to welcome the participants to this conference.

In a nutshell, the conference promises to transcend to a new and unprecedented level of excellence. It is thus the zenith where technology and skill meets opportunities and guidance. It is a milestone that one would not dare to miss. I wish ICIATE 2018 a grand success.

Dr. P. N. Nemade
Director
Atharva College of Engineering
Malad, Mumbai



"Excellence through Education"

From Principal's Desk



Dr. S. P. Kallurkar
Conference Advisor

It gives me immense pleasure to be a part of this hosting team of “2nd **International Conference on Innovative and Advanced technologies in Engineering 2018**”. The conference intends to bring together scientists, engineers and practitioners from different disciplines to discuss concerns related to various computation techniques in science and technology.

I take this opportunity to welcome all the delegates of the conference. On behalf of whole **ICIATE 2018** team, I would like to thank all the authors, sponsors and keynote speakers for their support and co-operation. The rapid development in technologies and changes in lifestyle impose various issues in many countries. The conference ICIATE 2018 has been crafted to challenge the hurdles and we are fortunate to have leading speakers to share their experience and perspectives to achieve smart solutions through their innovation.

I hope that the conference serves as a locus for interdisciplinary, a space for discourse and collaboration. I would like to express my appreciation to the organizing committee for their dedicated efforts to materialize the conference. I hope all the participants will have a fruitful and beneficial experience.

Finally, I congratulate HOD, college faculty, student representatives and participant for their efforts in organizing and participating in this conference and wish the conference all the success.

Dr. S. P. Kallurkar
Principal
Atharva College of Engineering
Malad, Mumbai

Messages from International Advisory Committee

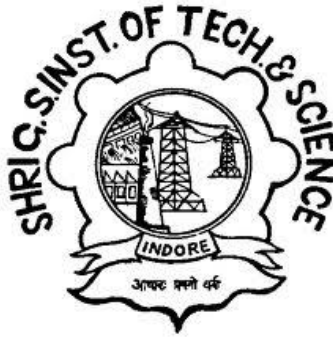


Dr. Venkata Yaramasu

It gives me an immense pleasure to be a part of the 2nd International Conference on Innovative and Advanced Technologies in Engineering (ICIATE-2018). I strongly believe that this conference will provide tools and knowledge to overcome significant problems appearing in our industry and society by identifying innovative ideas and technologies introduced by the researchers and students.

The success of this conference will encourage us in introducing many more initiatives for innovative trends in the coming years. I wish the ICIATE-2018 a great success.

Dr. Venkata Yaramasu
PhD
Northern Arizona University
USA



Dr. Rakesh Saxena

I am pleased to know that Atharva College of Engineering is organizing “International Conference on Innovative and Advanced Technologies in Engineering 2018 (ICIATE18)”. The institution is creating a platform for the industrialist, professionals, researcher and students to share and express their views on Innovative and Advanced Technologies in Engineering. It is absolutely essential to nurture the innovative capabilities of students as they are the future of our country and in that context it is very relevant that Atharva College of engineering, Mumbai has organized this conference.

Dr. Rakesh Saxena

Director
SGSITS, Madhya Pradesh
India



Dr. Amiya Tripathy

It gives me pleasure to know that Atharva College of Engineering Mumbai is organising International Conference on “Innovative and Advanced Technology in Engineering”. I am sure that the interaction of participants throughout the globe, internationally renowned counterparts will go a long way in knowledge sharing to help Industry, Society to grow and to compete globally.

This conference will be a grand success and extend my best wishes for the success of this conference. I congratulate the Institute on preceding this wonderful step.

Dr. Amiya Kumar Tripathy

Dean (R&D), DBIT, Mumbai, India

Adj. Professor, ECU, Perth, Australia



Mr. Paul C. Mathew

The conference titled International conference on Innovative and Advanced Technologies in Engineering provides a platform for discussions on various technical topics related to engineering as well as science and technology. This is a conference of international significance. The proceedings represent scholarly work of advanced and innovative thinkers and educators from around the world. It is felt that it is only through the exchange of information that one can hope to keep up with the rapidly changing world around us. I wish all the delegates, a great educational and informative experience at the conference. My best wishes to the organizers of the conference.

Mr. Paul C. Mathew
Director
Senior Enterprise Architect
Nationwide Building Society
Didcot, UK



Mr. Sachin Sadare

The conference is an international platform for sharing new perspectives in the areas of science and technology with transforming context. Many educators share their experiences, practices, and perspectives to accelerate educational changes in the environment of today's world that is always in a state of flux. The papers, discussions, and interactions during the conference will bring forth multiple viewpoints and address issues of critical importance. My best wishes to all participants of the conference to make the most out of this event by learning innovative and advanced technologies.

Mr. Sachin Sadare
Founder & Director
Digital Dojo Pvt. Ltd.
www.digitaldojo.in



Dr. S. G. Bhirud

I am glad to be the part of the 2nd International Conference on Innovative Technology in Engineering -2018. The events in the conference are targeted towards researchers, practitioners, professionals, educators and students to share their experience, innovative ideas, issues, recent trends and future directions in field of Engineering and Science and Technology.. Finally, I congratulate the team members and participant for their efforts in organizing and participating in this conference and wish the conference all the success.

Dr. S. G Bhirud
Professor
Computer Department
VJTI, Mumbai



Dr. Ashish Mathur

The technology used in various fields of engineering is advancing at a tremendous pace every passing day. There has been a boom in the usage of internet and the demand for high speed access to video and data is ever increasing. 10 years before, 3G and 4G were a distant dream, but today a lot of research is going in the field of 5G as well.

In such a scenario, organizing such a conference is of paramount importance. This will enable researchers from different domains to share their views on a common platform. Particularly, I would like to congratulate Atharva College of Engineering (ACE), Mumbai for taking such a promising initiative. This will not only help the students by opening the vistas of opportunities in various fields of engineering, but also promote learning and sharing of ideas for the faculty members. I am confident that this conference will indeed generate a lot of interest among the students to explore and pursue the area of research, thereby bringing laurels to your institute and developing our society as a whole.

Dr. Aashish Mathur

Assistant Professor

Dept of Electrical Engineering

IIT Jodhpur

**Messages
From
Editorial Board**



Prof. Nileema Pathak

The efforts taken by Shri Sunil Rane, Executive President-AGI; in the field of Science and technology has encouraged today's youth to think innovatively. On behalf of organizing team of ICIATE 2018, I would like to wish all authors, patrons, and readers a very Happy, Harmonious, and Prosperous Year 2018! Conferences have a strong zest to bring researchers together to discuss and enhance their knowledge in the respective domain. ICIATE is not just a conference but a great meetup for all the technocrats. Such meetups always help us to collaborate with the people of interest.

It gives me immense pleasure to write as an editor of this 2nd International conference on “*Innovative and Advanced Technologies*” at Atharva College of Engineering , Mumbai.

March 2018 ,turned out to be vibrant and zealous because of ICIATE. I am stunned and amazed by this flamboyant aura of technology and happy to see the efforts taken by the current generation and of course the diversity was something that left me awestruck. I appreciate the efforts taken by all the researchers and wish them best of luck for their future success.

Prof. Nileema Pathak
Editor – ICIATE 2018
H.O.D.
Department of Information Technology
Atharva College of Engineering



Prof. Sachin Gavhane

With the zest to support digital India and to boost Research and Development at international platform, Atharva college of engineering has organized an 2nd International Conference on “Innovative and Advanced Technologies”, from 21st to 23rd March 2018. It gives me immense pleasure in writing this message as an Editor of this conference.

The theme of the conference is “*Virtual Reality*”. The proceedings of *ICIATE* include abstracts for oral presentations provided by enthusiastic students, practicing researchers, industry personalities and academicians. I extend my warmest thanks to the authors for their interest, enthusiasm and timely submission of research papers and participation in this mega event of more than 400 delegates.

ICIATE was a great platform for all the technocrats. The idea behind *this conference* was to help and motivate researchers to carry forward their work to the next level. As Editor of ICIATE 2018, I anticipate that these proceedings would be of immense value and will be definitely useful to researchers in their practice or thinking process. This collection will also offer a window for new perspectives and directions in the respective horizons.

Happy Tech 2018!!!

Prof. Sachin Gavhane

Editor

Assistant Professor

Department of Information Technology

Messages

From

Organizers



Prof. Karuna Nikum

It is my great pleasure to announce that the 2nd International Conference on Innovative and Advanced Technologies in Engineering (ICIATE 2018) which took place at Atharva College of Engineering, Malad (West), Maharashtra, India on 21st - 23rd March, 2018 was a great success. It has been a real honour and privilege to serve as the Organising Secretary of the conference.

This year, the program spanned three days which included one day of Pre conference workshop followed by two days of the conference. There were three very informative Keynote presentations and a Panel Discussion which was an excellent platform for discussions, debate and exchange of ideas on current topics like virtual reality, IOT etc.

We thank our Honourable Shri. Sunil Rane sir for his vision and leadership. The conference would not have been possible without the enthusiasm and hard work of my colleagues. We are also grateful to all the authors for their valuable contributions.



Karuna Nikum
Assistant Professor
Atharva College of Engineering, Mumbai



Prof. Neha Kunte

ICIATE 2018 was fortunate to attract a high interest among the community, and the conference received 250 submissions from 6 different tracks. The huge number of submissions provided an excellent opportunity for a high-quality program, but also called for a demanding and laborious paper evaluation process.

The Review Committee worked efficiently and responsibly under tight time constraints to produce at least two reviews for each paper that provided the basis for the final paper selection.

We had an exciting week of insightful presentations, discussions, and sharing of technical ideas with colleagues from around the world. We thank you for attending the conference.



Neha Kunte
Assistant Professor
Atharva College of Engineering, Mumbai



Prof. Deepthi Shekhar

ICIATE 2018 provided international forums for Scientists and Engineers from academia and industry to exchange and share their experiences, research results, and new ideas emerging topics in engineering field.

This year we made a concerted effort to raise the standard of the International Conference. In order to give more time for reviewers to perform thorough reviews and more time for authors to respond to the reviewer suggestions and improve their papers, we moved the submission deadline forward by one month. We promoted the conference heavily through frequent mails and posters out to departments all over the world.

The final result would not have been possible without the dedication and hard work of the my colleagues. Special thanks are due to the track chairs, workshop chairs, the members of the Technical Program Committees, the General Chair, and to all the reviewers for the quality and depth of the reviews, and their sense of responsibility and responsiveness.



Deepthi Sekhar
Assistant Professor
Atharva College of Engineering, Mumbai

**“INTERNATIONAL CONFERENCE ON
INNOVATIVE AND ADVANCED
TECHNOLOGIES IN ENGINEERING”
(ICIATE 2018)**

DATE: 21st To 23rd MARCH, 2018

Organized By



**AET's
ATHARVA COLLEGE OF ENGINEERING**

Venue:

Atharva Educational Complex,
Malad Marve Road,
Charkop Naka,
Malad (West), Mumbai-95
Tel.: 91-022-40294949 (30 Lines)
www.atharvacoe.ac.in

**INTERNATIONAL CONFERENCE ON INNOVATIVE AND ADVANCED
TECHNOLOGIES IN ENGINEERING
(ICIATE 2018)**

Theme Paper

Innovation and proliferation of advance technologies in Engineering is the order of the day with rapid increase in demand for real time solutions with cutting-edge technologies. The International conference at Atharva College of Engineering aims to spark discussion on the recent trends, practical issues and the solutions adopted in the field of Engineering and Technology by incorporating innovative ideas and employing advanced technologies. Emphasis is laid on the recent developments in the field of Electronics, Telecommunication, Electrical, Information Technology and Computer Engineering covering various aspects.

In the field of applied computing and Computer Engineering, the focus will be on IOT and Nano sensors, Big Data, Analytics, Cloud Computing, Artificial intelligence and robotics, Human-computer interaction, Formal semantics, Computer and System Security, Knowledge Acquisition and Expert systems, Algorithmic information theory, Design Automation, Smart materials and Intelligent systems, Speech synthesis, Usability engineering, Android Technology, Data mining and Algorithm Analysis.

The theme of this workshop is Virtual Reality and organized with the objective of bringing together academicians, scientists and experts, working in this area of research. This workshop focuses on both theory and applications in the broad areas of Virtual Reality in Electrical, Electronics, Electronics and Communication, Computer Science and Information Technology. Virtual Reality is the computer-generated simulation of a three-dimensional image or environment that can be interacted with in a seemingly real or physical way by a person using special electronic equipment, such as a head mounted display (HMD) with a screen inside or gloves fitted with sensors.

Virtual reality is the paradigm empowered by the advancement of a number of distinctive technologies, including image processing, the internet, wireless communication technologies, cloud computing, sensors, big data analytics and machine learning algorithms. Smart Cities, Smart Grids, Smart Agriculture are no more hypothetical. Big Data Analytics is another field which was once just all about gathered information, run analytics and unearthed information that could help with future decisions. The scenario is no more so, as it has grown to identify insights for immediate decisions and enable faster and better decision making. As the advancements in these fields are growing leaps and bounds performance and security has also become a matter of concern. Cyber crime and data compromises are growing rapidly as ICT are employed on a large scale for doing important tasks and data stored

in cloud is also increasing. Thus the gravity of developing internet - secure environment is on high demand.

In electrical domain our conference mainly focuses on the areas of Power Electronics, drives technology and Power system. Power Electronics is the integral part of drives technology and power system. It is an application oriented and interdisciplinary area which plays a crucial role of conversion and control electrical power. Smart grid technology deals with a variety of operational and energy measures including smart meters, smart appliances, renewable energy resources, and energy efficiency resources.

Global communication systems have not only changed the world but are also advancing at an exceptional rate. We thus encourage researchers to gain insight into communication systems of the future, and to develop such systems. In ICIATE 2018, we are exploring newer ideas and evolving technologies such as 5G mobile communications, machine communications, fiber optical links and networks, and sensor network communication, with emerging new applications by publishing papers containing pure knowledge.

ICIATE'18 provides the forum for researchers, practitioners to present their innovations, technological advances and provides a platform for academicians, researchers, engineers and industrialists from various disciplines to deliberate the latest trends, sustainability, practical challenges encountered and the solutions implemented.

INTERNATIONAL CONFERENCE ON INNOVATIVE AND ADVANCED TECHNOLOGIES IN ENGINEERING (ICIATE 2018)

DATE: 21st to 23rd March, 2018

Schedule: Pre-Conference Workshops

Day 1: 21/03/2018

Time	Session	Venue
08:30AM onwards	Registration for Workshop	Phase I -Ground Floor
02:00PM To 05:00PM	Registration for Conference(Paper/poster)	
Workshop on Internet of things and Virtual Reality (For Students only)		Workshop on Teaching Learning through Social Networking (For Professional only)
Venue: (Lab 10, 1 st Floor) Speakers 1: Topic: Internet of things Mr. Rajkumar Singh (R&D Engineer. Sciencetech Technologies Pvt. Ltd) Time: (10:00 AM to 12:00PM) Speakers: 2 Topic: Virtual reality Mr. Raj Dedania (Design & Code: Atharva Chapter) Time: (12:00 AM to 01:00PM) Speakers: 3 Mr. Krunal Gediya (Design & Code: Atharva Chapter) Time: (02:00 PM to 03:00PM) Speaker: 4 Mr. Mrityunjai Mishra (Design & Code: Atharva Chapter) Time: (3:00PM to 4:00PM)		Venue (CC lab, 5 th Floor) Speakers 1: Dr. Deepak Waikar (Managing Partner, EduEnergy Consultant, Singapore) Topic: Smart Education: Challenges & Opportunities Time: (10:00 AM to 11:00AM) Speakers 2: Prof. Mahendra Patil (HOD CMPN Deptt.) Topic: Teaching Learning through Course Networking Time: (11:00 AM to 01:00PM) Speakers: 3 Dr. Deepak Waikar Topic: Blended Learning: Challenges & Opportunities Time: (02:00 PM to 03:00PM) Speakers: 4 Prof. Poonam Deshpande (HOD Humenity and Science) Topic: New Methodology in Teaching Time: (3:00PM to 5:00PM) Workshop Team Members Prof. Amruta Mhatre Prof. Divya V Kumawat Prof Ajeet Ghodeswar

**INTERNATIONAL CONFERENCE ON INNOVATIVE AND
ADVANCED TECHNOLOGIES IN ENGINEERING
(ICIATE 2018)**

DATE: 21st to 23rd March, 2018

**Schedule
Paper / Poster Presentation
Day 2: 22/03/2018**

Day 2: 22/03/2018		
Time	Schedule	Venue
08:30AM onwards	Registration for Conference(Paper/poster)	Phase I, Ground Floor
08:30AM-9:30AM	Breakfast	Phase III, Ground Floor
INAUGURATION		
09:30AM-9:35AM	Lighting of Lamp	Phase III 2 nd Floor, Auditorium Phase III. Ground Floor
9:35AM-9:40AM	Welcome Address Prof. Karuna Nikum	
9:40AM-9:45AM	Opening Remarks By: <div> <div>Dr. S. P. Kallurkar Principal, ACE</div> <div>Dr. P. N. Nemade Director, ACE</div> </div>	
9:45AM-9:50AM	Address by Guest of Honor Dr.S.G Bhirud Professor Computer Engineering Department, VJTI, Mumbai.	
9:50AM-9:55AM	Address by Guest of Honor Shri Shailendra Singh Assistant Director, MSME-Development Institute, Mumbai	
09:55AM-10:05AM	Address by Chief Guest Hon. Dr. Avinash S. Pant Former Vice Chairman, AICTE & Principal, Govt. college of Engg. & Research, Pune	
10:05AM-10:20AM	Address by Conference Chair Dr. Deepak Waikar Managing Partner, EduEnergy Consultant, Singapore	
10:20AM-10:25AM	Address by Executive President Hon. Shri. Sunil Rane Executive President, Atharva Group of Institutes	
10:25AM-10:30AM	Vote of Thanks Prof. Deepthi Shekhar	
10:30AM-11:00AM	Tea Break	
11:00AM-12:00AM	Key Note Address Shri Shailendra Singh Assistant Director, MSME-Development Institute, Mumbai	

12:00PM- 1:00PM	Key Note Address Dr. Aditya Abhyankar, Dean- Faculty of Technology, Department of Technology, Pune University	
01:00PM-02:00PM	Lunch	Phase III, Ground Floor
02:00PM-02:05PM	Inauguration of Poster Presentation Dr. Deepak Waikar Managing Partner,EduEnergy Consultant, Singapore	Phase I
02:00PM-03:30PM	Parallel session of Paper/Poster Presentation	Phase I
03:30PM-03:40PM	Tea Break	Phase I
03:40PM-05:00PM	Parallel session of Paper/Poster Presentation	Phase I

INTERNATIONAL CONFERENCE ON “INNOVATIVE AND ADVANCED TECHNOLOGIES IN ENGINEERING” (ICIATE 2018)

DATE: 21st to 23rd March, 2018

Schedule

Paper / Poster Presentation

Day 3: 23/03/2018

Time	Schedule	Venue
08:30AM onwards	Registration for Conference(Paper/poster)	Phase I Ground Floor
09:00AM-09:30AM	Breakfast	Phase III Ground Floor
09:30AM-11:30AM	Parallel session of Paper/Poster Presentation	Phase I
11:30AM-11:40AM	Tea Break	
11:40AM-01:30PM	Parallel Paper/Poster Presentation	
01:30PM-02:30PM	Lunch	Phase III Ground Floor
02:30PM -03:30PM	Panel Discussion on Future Of Virtual Reality	Phase III 4 th Floor, Seminar Hall
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Dr. Y. S. Rao Vice Principal, Professor & HOD, EXTC, SPIT</p> <p>Dr. Deven Shah Professor & Mentor Dean (H & S), IT Dept., TCET</p> <p>Prof. Nileema Pathak HoD, INFT, ACE</p> </div> <div style="width: 45%;"> <p>Dr. Jonathan Joshi Founder & CEO, Eduvance, Mumbai</p> <p>Dr. Lochan Jolly Professor and Dean (Students and Staff Welfare), EXTC, TCET</p> <p>Dr. Meena Kumari Chief Technology Officer, iCRM</p> </div> </div>	
03:30PM-03:40PM	Tea Break	Phase III Ground Floor
VALEDICTORY		
03:40PM-03:50PM	Welcome Address Dr. S. P. Kallurkar Principal, ACE	Phase III 4 th Floor, Seminar Hall
03:50PM-04:00PM	Report of Rapporteur Prof. Sachin Gavhane	
04:00PM-04:10PM	Views of Participants	
04:15PM-04:20PM	Address by Chief Guest Dr. Meena Kumari Chief Technology Officer, Institute for Customer Relationship Management	
04:20PM-04:35PM	Address by Conference Chairperson Dr. Deepak Waikar Managing Partner, EduEnergy Consultant, Singapore	
04:35PM-04:45PM	Address by Executive President Hon. Shri. Sunil Rane Executive President, Atharva Group of Institutes	
04:45PM-04:55PM	Distribution of Prizes for Paper & Poster Presentation	
04:55PM-05:00PM	Vote of Thanks Prof. Karuna Nikum	

