Report of the

First National Research Symposium

on

"Recent Advances and Challenges in Engineering and Management" (RACEM - 2015)

21st December 2015

Organised by

Vidyalankar Institute of Technology, Mumbai

in collaboration with

University of Mumbai

Co-sponsored by:

Convenor	Co-convener	Organizing Secretary
Dr. Sangeeta Joshi	Dr. Anjali Deshpande	Prof. Shrikant Velankar
Professor and	Professor and	Professor and
Technical Advisor	Head, Electronics Engineering	Chief Academic Officer

Index

Sr. No	Contents	Page No
1	Message from the Desk of the Hon'ble Vice Chancellor, University of Mumbai	4
2	Message from Dr. Sanjeewani Deshpande , Chairperson Vidyalankar Dyanpeeth Trust, Mumbai	5
3	Message from Dr. Sangeeta Joshi , Convener RACEM- 2015	6
4	Organising Committee	7
5	Approval Letter from University of Mumbai	8
6	Schedule of the Symposium	9
7	Introduction	10
8	Aims and Objectives	11
9	Expected outcome	11
10	Sponsorer & Co-sponsorer	12
11	Tracks	12
12	Event Details	13-28
13	Inaugural Function	13
14	TCS session	14
15	Research Scholars Presentations	15
16	Poster Presentation	16
17	TCS Awards	17-18
18	List of Posters	19-26
19	Acknowledgement	27

Our Patrons

Dr.S.C.deshpande,
Chairperson
VDT

Dr.Sanjay Deshmukh,
Vice Chancellor
University of Mumbai

Dr.V.N.Gupchup,
Member, Governing Body,
VIT

Dr.M.A.Khan,
Registrar,
University of Mumbai

Mr. Vishwas Deshpande,
Trustee, VDT

Mr. Avinash Chatorikar,
Trustee, VDT

Mr. Milind Tadvalkar
Director, VDT

Dr. Sunil Patekar,
Principal, VIT

Prof. Varsha Bhosale,
Vice Principal, VIT

University of Mumbai

NAAC Accredited 'A' Grade University (2012-17) • University with potential for excellence

SANJAY DESHMUKH PhD
VICE-CHANCELLOR

MESSAGE

I am glad to know that Vidyalankar Institute of Technology for organizing a National Research Symposium on Recent Advances and Challenges in Engineering and Management (RACEM- 2015) on December 21, 2015. I am certain that supported by an astute selection of quality research papers and presentations, such an initiative will reap rich dividends for the world of academic research and technological development.

To be in step with our international counterparts, educational institutes need to focus on application-based pedagogy as well as encourage research activities among faculty and students. Promoting research and fostering strong industry- institute bonds will aid in networking for optimum resource utilization and in sharing best practices. Conferences and research symposia like this provide intellectual nourishment in engineering professional circles and thereby contribute to creating an environment conducive to research.

I wish the Symposium a grand success.

SANJAY DESHMUKH

1 4 DEC 2015

In the words of Kofi Annan, "Knowledge is power. Information is liberating. Education is the premise of progress, in every society, in every family." The faculty of thought and reason in mankind is what carries the legacy of progress and development ahead. We, at Vidyalankar, have always believed in assigning the highest priority to the promotion of a research culture amongst our students and faculty, so that we can do our bit towards making the world a better place to live in.

I extend my very best wishes to all the participants and organizers of Vidyalankar Institute of Technology's National Level Research Symposium on Recent Advances and Challenges in Engineering and Management: RACEM-2015. I sincerely hope that such an initiative will contributes to furthering our vision of ultimately blossoming into 'a research institute that also teaches'.

Dr. Sanjeewani Deshpande,
Chairperson,
Vidyalankar Dnyanapeeth Trust

It is said that "Research is to see what everybody else has seen, and to think what nobody else has thought." Vidyalankar Institute of Technology's Fist National Research Symposium on Recent Advances and Challenges in Engineering and Management: RACEM-2015 aims to facilitate a forum to encourage research among participants and enables them to enrich their corpus of knowledge. Being a part of an engineering and management institute, it is imperative for us to share our ideas with others to increase the visibility of our technological research findings and in turn to learn more about the advancements in our disciplines. VIT has always encouraged its faculty and students to not just excel in the dissemination of current knowledge, but to also reach out to newer horizons and explore technology in a broader context.

RACEM-2015 is designed to give participants a platform to effectively present their ideas and research and to encourage interaction and intellectual exchange of ideas with academia, industry and research personnel and help them to chisel and hone their talents to become better professionals. This initiative will take the Institute one more step forward in realizing the dream of being an innovative research-based educational centre. I am certain that this Research Symposium RACEM-2015 will set a new benchmark and prove to be a worthy precursor to many more research symposia at VIT. Good luck to all the participants for an enriching learning experience!

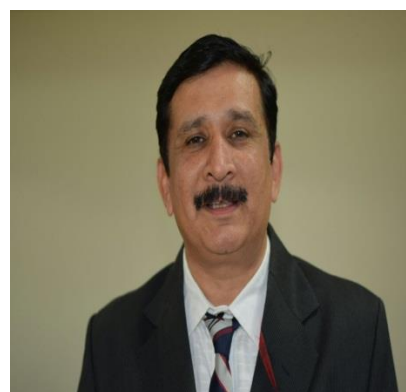**Dr. Sangeeta Joshi, Convener, RACEM-2015**

Organising Committee

Convener	**Co-convener**	**Organizing Secretary**
Dr. Sangeeta Joshi, Professor & Technical Advisor	Dr. Anjali Deshpande, Professor, Head of Electronics Engineering	Prof. Shrikant Velankar, Professor & Chief Academic Officer

Organizing Team

Dr. Ankush Sharma, Ajitkumar Khachane, Sachin Deshpande, Dr. Gajanan Nagare, Dr. Saurabh Mehta, Ameya Nyayadhish,Geetha Narayanan, Girish Gidaye, Dr. Varsha Turkar ,Dr. Saurav Mitra, Sachin Bojewar, Vidya Chitre, Deepali Vora, Uma Jaishankar, Kavita Shirsat, Satendra Mane, Avila Naik, Sonaali Borkar, Poonam Shah, Ruchi awani, Smriti Vishwanath, Suvarna Bhat, Anuja Gote, Swati Sharma, Mohit Gujar,Prajakta Tambe, Rajashree Soman, Namita Moris, Sunil Thube, Shailesh Mapuskar

University of Mumbai

No.APD/301/ 306 of 2015
Mumbai-400 032
29th October, 2015

To,
The Principal,
Vidyalankar Institute of Technology,
Vidyalankar Educational Campus,
Vidyalankar Marg,
Wadala (E),
Mumbai – 400 037

Sir/Madam,

This has reference to your letter Ref. No. VIT/RACEM/1221/2015, dated 09th October, 2015, for organize one day Research Symposium – 2015 on "Recent Advances and Challenges in Engineering and Management (RACEM)" in Collaboration with University of Mumbai on 21st December, 2015.

In this connection, I am directed to inform you that your request to conduct one day Research Symposium – 2015 on "Recent Advances and Challenges in Engineering and Management (RACEM)" in Collaboration with University of Mumbai on 21st December, 2015 has been granted, subject to the condition that there shall not be any financial liability on University and that if they use **University "Logo", it shall not be misused.**

Yours faithfully

for Registrar

National Level Research Symposium
on
**Recent Advances and Challenges in Engineering
and Management
RACEM-2015**

Vidyalankar Educational Campus, Vidyalankar Marg, Wadala (East), Mumbai 400 037
Telefax: 2416 1126 Email: racem@vit.edu.in Website: www.vit.edu.in

Date : Monday, 21 December 2015		
Time	**Outline of Events**	**Venue**
08.30 to 09.15	Registration and Refreshments	M Block Lobby and V Lounge
09:30 to 10:30	Inaugural Function	Auditorium
10:30 to 11:15	Modelling and Optimisation in Science and Engineering Prof. R K Shevgaonkar, IIT Bombay, Ex-Director, IIT Delhi, Ex-VC, Pune University	Auditorium
11.15 to 12.00	e-Waste Management Prof. B. K. Soni, Chairman and MD, Eco Recycling Ltd. Mumbai	Auditorium
12.00 to 13.00	Judges Round – Poster presentation	Plaza
13:00 to 13.45	**Lunch**	V Lounge
13.45 to 14.00	A Novel TM01 to TE11 Mode Converter for High Power - Microwave Applications Ashish Chittora, Research Scholar, IIT Bombay	M-101
14:00 to 14.15	Satellite and GIS Spatial Data Security Dipak Choksi, Project Staff, IIT Bombay	M-101
14:15 to 14.30	Design and Analysis of CMOS Inverter Circuit with N-InGaAs and P-SiGe Vertical Nanowire Transistors Subha Subramaniam, Research Scholar, VJTI, Mumbai	M-101
14.30 to 14.45	New Wideband Dielectric Resonator Antenna with Rectangular Cross-section Pragati Patel, Research Scholar, IIT Bombay	M-101
14.45 to 15.00	Los Based Attitude Alignment of Two Spacecraft in Formation R. Warier, Research Scholar, IIT Bombay	M-101
15.00 to 15.15	Study of Nonlinear Behavior of DC Motor Using Modeling and Simulation Nayana P. Mahajan, Research Scholar, VIT Mumbai	M-101
15.15 to 15.30	**Tea Break**	V Lounge
15.30 to 16.15	Application of Remote Sensing and Data Mining in Agricultural Dinesh Kumar Singh, Group Leader, TCS Innovation Lab, Mumbai	M-101
16:15 to 17:00	**Valedictory**	

Introduction:

Presently the Technical Education in the State of Maharashtra is sufficiently grown. It ranks quite high in the country. Quality of Education is indeed a matter of concern for University and Govt. of Maharashtra. Research in Engineering & Technology plays a pivotal role in our knowledge-driven society for economic development and also for improving quality of life. It not only lays the foundation for the advances in technology but also generates the bank of knowledge.

In order to strengthen the research and development, it is very essential to provide appropriate platform for the PhD aspirants. University of Mumbai has taken initiative in introducing PhD programmes in various Engineering Colleges. This will certainly facilitate our State to produce reasonable number of PhDs in near future.

The roles of research, science and technology are important for overall prosperity of any developing economy. Symposia and conferences fosters healthy interaction among a diverse range of professionals. In order to facilitate Ph.D. aspirants and Post graduate Students for understanding present research work carried out at National Institutes like IITs, Deemed Universities, Autonomous Engineering colleges and at research centers approved by University of Mumbai, the First National Research Symposium on 2015 on "Recent Advances and Challenges in Engineering and Management (RACEM)" is conducted in collaboration with University of Mumbai on 21st December 2015 at our Institute. A multi-track event, covering theoretical and practical aspects on Technology and Management related topics, the Symposium aims to provide a platform where new paradigms may emerge and some additions may be made to the existing corpus of knowledge.

Eminent personalities in the respective fields were invited for Keynote speeches. Research scholars from IITs and other autonomous Institutes exhibited their work through POSTER presentation. Selective scholars also presented their work. Total of 105 posters were exhibited 44 in Electronics & Telecommunications, 50 in Computer Science & IT and 11 in Management, Biomedical and Humanities. All posters are evaluated by a Panel of Judges. Experts from various Institutes were invited to evaluate the posters. Best posters were awarded with Cash Prize and certificates.

Aims and Objectives:

This Research Symposium aims to facilitate a forum to encourage research among participants and enable them to enrich their corpus of knowledge. It is designed to give participants a dais to effectively present their ideas and research and to encourage interaction and intellectual exchange of ideas with academia, industry and research personnel and help them to chisel and hone their talents to become better professionals.

The objective of this Research Symposium is to provide a platform for participants to share ideas, present their research findings in engineering, technology and management and to provide opportunities to Ph.D. aspirants to understand research trends in technology. The event includes keynote speeches by eminent personalities and poster presentations in various tracks such as Electronics and Communication, Computers and Computation, Technology Management and Humanities, Biomedical, and Bioengineering.

Expected outcome:

To be in step with our international counterparts, institutes need to focus on application-based learning as well as encourage research activities among faculty and students. Following is the list of certain expected outcomes of this symposium:

- This research Symposium aspires to be a destination for not just budding engineers who can be at par with their global counterparts, but also for research scholars who can push the limits of knowledge beyond existing boundaries.
- This Symposium will provide a forum for engineering professionals to showcase their research ideas and talents and expose them to the use of contemporary tools and the developments in various fields of Engineering.
- Participation in such events helps to create a research culture in academia and inculcates a habit of expressing ideas in a rational and convincing manner.

Hon. Chairperson Dr. Sanjeewani Deshpande has always been a source of inspiration for us for promoting research at our campus and we are sure that this symposium will set a new benchmark and prove to be a worthy precursor to many more research symposia at our Institute. This initiative takes the Institute one more step ahead in realizing the dream of being an innovative research-based educational centre, envisaged by its visionary founder Prof. Chandshekar Deshpande.

Sponsorer: Hon. Management trustee Mr. Vishwas Deshpande, who is known for his commitment to student fraternity and research oriented activities, has offered VIT fellowships to 85 participants.

Co-sponsorer: This event is co-sponsored by Tata Consultancy services. This co-sponsorship helped us to award TCS fellowships to 20 participants for registering this Symposium and also for awarding best posters.

Tracks:

- Electronics and Telecommunication
    - VLSI Design & Embedded Systems
    - Robotics, Automation and Control
    - Signal, speech and Image Processing
    - Optical and Wireless Communication
    - RF and Microwave
    - MEMS and Nanotechnology
    - Power Electronics and Renewable Energy

- Computer Science & Information Technology
    - Soft Computing & Computer Vision
    - Artificial Intelligence & Expert Systems
    - Computer Graphics & Virtual Reality
    - Data Mining & Data Warehousing
    - Distributed Systems & Parallel Computing
    - Cloud Computing & Computer Networks
    - Geographic Information System & Remote Sensing

- Management
    - Retail, Financial & HR Management
    - Ethnographic Research
    - E – Commerce & E – Governance
    - Services & Behavioural Aspects of Marketing
    - Security Analysis and Portfolio Management

- Bio Medical Engineering
    - Biomedical Instrumentation
    - Bio – Sensors & Healthcare
    - Biomedical Signal Processing
    - Nuclear Medicine & Hospital Management

Event details:

Inaugural Function:

The event was inaugurated by the Chief Guest Hon. Prof. R. K. Shevgaonkar, an eminent professor, IIT Bombay, former Director IIT Delhi, Ex-Vice Chancellor, University of Pune. He delivered an insightful keynote address on "Modelling and Optimization in Science and Technology. He emphasised on the importance of modelling by taking interesting examples like modelling solar radiation. He also discussed modelling of photonic crystal devices.

Inaugural Function:

Mr. B.K. Soni, Chairman and Managing Director, Eco-recycling Ltd, Mumbai presided the Inaugural function as the Guest of Honour. He delivered a very informative talk on "E-waste Management". He suggested a way to the "problem of E3 (Electrical Electronic Equipment) resolve with T3 (Training, Transport and Technology) to achieve E3" (Environment, Ecology and Economy).

TCS session:

Mr.Dineshkumar Singh, Group Leader, TCS Innovation Lab and Mr. Gaurav Gandhi, Academic Relationship Manager, TCS were present for this event. Mr.Dineshkumar Singh delivered a talk on "Application of Remote Sensing and Data Mining in Agriculture". He discussed the idea of M-Krishi based on remote sensing.

Research Scholars Presentations:

Prof. Jayanta Mukherji, IITB was invited as session chair for this session. Following Research scholars presented their work.

S.No.	Title of the Research	Speaker	Designation
1.	A Novel TM01 to TE11 mode converter for high power microwave application	Ashish Chittora	Research Scholar, IIT Bombay
2.	Satellite and GIS Spatial Data Security	by Deepak Choksy	Project Staff, IIT Bombay
3.	Loss Based Altitude Alignment of Two Space Craft in Formation	R. Warier	Research Scholar, IIT Bombay
4.	Design and Analysis of CMOS inverter Circuit	Shubha Subramanium	Research Scholar VJTI, Mumbai
5.	Validation of Macov Routing Model in Wireless Sensor Network	by Shilpa Lambor	Research Scholar, VIT Pune
6.	Study of Non-linear behaviour of DC motor using modelling and Simulation	Nayana Mahajan	Research Scholar, VIT, Mumbai

Poster Presentation:

Following faculties were invited as experts for Judges panel

S.No.	Name of the Expert	Designation	Institute
1.	Prof. Narayankhedkar	Principal	MGM College of Engineering, Mumbai
2.	Prof. Devane	Professor & Head	Datta Meghe College of Engineering, Airoli
3.	Mr. Anand Paralkar	Consultant	Vidyalankar Institute of Technology, Mumbai
4.	Mr. Gaurav Gandhi	Group Leader, TCS Innovation Lab	TCS, Mumbai

Evaluation Criteria:

Contents	Poster presentation	Total Out of 40
(New Technology, Innovation, Actual work or Review poster) (20)	(Citation , References, Overall planning for display of poster) (20)	

TCS Awards:

S.No.	Title	Name	Poster Title	Category	Poster No	Organization
1.	Best Poster	Ashish Chittora Sandeep Singh Archana Sharma Jayanta Mukherjee	A Novel TM01 to TE11 Mode Converter for High Power Microwave Applications	Research Scholar	E1	Indian Institute of Technology Bombay
2.	Consolation	N.R. Chowdhury S. Srikant	Consensus Analysis Of Double Integrator Agents With Persistent Interaction Graph	Research Scholar	E5	Indian Institute of Technology Bombay
3.	Best Poster	Menka Singh Prof.Shraddha Panbude Prof. Rama Rao.	Design Of Compact Dual Band Antenna Loaded With EBG Metamaterial.	Post Graduate	E39	Vidyalankar Institute Of Technology
4.	Best Poster	Rugved V Deolekar Amit K Nerurkar Swapnil S Sonawane	Solving N Queens Problem using Genetic Algorithms	Post Graduate	C30	Vidyalankar Institute Of Technology
5.	Consolation	Arunima Ratankumar	Internet of Things for Smart Things: Smart Water Conservation	Post Graduate	C35	Vidyalankar Institute Of Technology
6.	Consolation	Samrin Ansari Sangeeta Joshi	Nanowire: An Innovative Approach For 22nm Technology Node	Post Graduate	E27	Vidyalankar Institute Of Technology
7.	Best Poster	Amit Dhanwani Nikunj Singh Rhishikesh Walawalkar	Trip-On-Go: Trip Planner	Under Grduate	C4	Vidyalankar Institute Of Technology

List of Posters

Poster No	Internal/ External	Name of Author	Institute	Poster Title
B1	Internal	Komal Lawand Smriti Viswanath	Vidyalankar Institute of Technology	Infrared LED Based Non Invasive Blood Glucometer
B2	Internal	Dattaraj Sansgiri Suvarna Udgire	Vidyalankar Institute of Technology	Natural Vision Restoration by Normalising the Extraocular Muscles
B3	Internal	Arunkumar Ram Jyothi Warrier	Vidyalankar Institute of Technology	Noninvasive system for monitoring cerebral oxygenation using LABVIEW
B4	Internal	Dr. Smruti Tekale Geetanjali Abhay Dhotre	Vidyalankar Institute of Technology	Analytical methods used for Chemical Analysis
C1	IIT	Dipak Choksi	Indian Institute of Technology Bombay	Satellite and GIS Spatial Data Security
C2	Internal	Prof. Sachin Deshpande Mrs. Samidha Chavan	Vidyalankar Institute of Technology	Role of CoAP Protocol in Internet of Things(IoT)
C3	Internal	Prof. Neha Chankhore	Vidyalankar Institute of Technology	FTP over Multihoming : A Simulative Approach
C4	Internal	Amit Dhanwani Nikunj Singh Rhishikesh Walawalkar	Vidyalankar Institute of Technology	Trip-On-Go: Trip Planner
C5	Internal	Yogesh Doulatramani	Vidyalankar Institute of Technology	Ensuring Security For Cloud Computing Environment
C6	Internal	Swati Sharma Ajitkumar Khachane Dilip Motwani	Vidyalankar Institute of Technology	Mobile Number Portability
C7	Internal	Ms Prajakta Tambe Prof. Deepali Vora	Vidyalankar Institute of Technology	Evolution of the Web and E-Learning Application
C8	Internal	Ajay Dhruv	Vidyalankar Institute of Technology	Density Based Traffic Controlling System using Fuzzy Logic and Artificial Neural Networks
C9	Internal	Vijal Jain	Vidyalankar Institute of Technology	Video Shot Detection – The First Move Towards Video Perusal
C10	Internal	Shivraj Sunil Marathe Prof. Kavita P. Shirsat	Vidyalankar Institute of Technology	Mining You Tube Videos Metadata for Cyber Bullying Detection
C11	Internal	Ms. Namita Tambe Ajitkumar Khachane	Vidyalankar Institute of Technology	Gigabit Wireless : An Emerging Technology For WLAN

Poster No	Internal/ External	Name of Author	Institute	Poster Title
C12	Internal	Ms. Vidyashree N. Alone	Vidyalankar Institute of Technology	Optimized Feature Subset Selection for High Dimensional Data
C13	Internal	Jigar Chauhan Sachin Bojewar	Vidyalankar Institute of Technology	Connecting Classrooms with IoT
C14	Internal	Bhagyashri Kulkarni Varsha Bhosale	Vidyalankar Institute of Technology	Efficient Storage Utilization Using Erasure Codes in Open Stack Cloud
C15	Internal	Debarati Ghosal	Vidyalankar Institute of Technology	Improving the performance of AODV by receive reply method and securing it from black hole attack
C16	Internal	Prof. Divya Racha Prof. Varunakshi Bhojane	Vidyalankar Institute of Technology	Online recommendation system based on WUM using NLP
C17	Internal	Mr. Sagar Shivaji Yadav Prof.Sachin Bojewar	Vidyalankar Institute of Technology	Clustering of Multiple Documents for Text Summarization Using Text Mining
C18	Internal	Sana Ansari Prof. Avinash Shrivas	Vidyalankar Institute of Technology	Analyzing Different Models of Security & Privacy in IoT
C19	Internal	Mr. Sandeep J Kamble Prof. Sachin Deshpande Prof. Dilip Motwani	Vidyalankar Institute of Technology	Anomaly Extraction in Backbone Networks Using Mining Rules
C20	Internal	Shashank Dubey Prof. Vidya Chitre	Vidyalankar Institute of Technology	Migration Of Big Data On Cloud Environment
C21	Internal	Siddhesh Vaidya Varsha Bhosale	Vidyalankar Institute of Technology	Search Over Encrypted Data
C22	Internal	Sarah Shaikh, Prof. Deepali Vora	Vidyalankar Institute of Technology	YARN-Moving beyond Map Reduce
C23	Internal	Prathamesh S Tugaonkar Prof. Vidya Chitre	Vidyalankar Institute of Technology	Affective Interaction Models
C24	Internal	Amit K. Nerurkar Rugved Deolekar Swapnil Sonawane Harish Ojha	Vidyalankar Institute of Technology	Secured Information Storage Media
C25	Internal	Chetashri Bhusari Prof. Umesh Kulkarni	Vidyalankar Institute of Technology	Comparative Study of Various Mobile Cloud Computing Application Models

Poster No	Internal/External	Name of Author	Institute	Poster Title
C26	Internal	Ekata Mishra Sachin Bojewar	Vidyalankar Institute of Technology	Product Configuration – CTO v/s CPQ
C27	Internal	Kashmira Nagwekar Prof. Kavita Shirsat	Vidyalankar Institute of Technology	Analysis of Recommender Systems
C28	Internal	Vimala Rani R Rugved V Deolekar	Vidyalankar Institute of Technology	UBIQUITOUS DATA ACCESSING METHOD IN IoT-BASED INFORMATION SYSTEM
C29	Internal	Ritu Talreja Prof. Dilip Motwani	Vidyalankar Institute of Technology	Big Data Analytics in HealthCare
C30	Internal	Rugved V Deolekar Amit K Nerurkar Swapnil S Sonawane	Vidyalankar Institute of Technology	Solving N Queens Problem using Genetic Algorithms
C31	Internal	Sayali Bhole	Vidyalankar Institute of Technology	Approaches for Network Intrusion Detection
C32	Internal	Sushama Pawar Pankaj Vanwari	Vidyalankar Institute of Technology	Sybil attack and their Defenses in Internet of Things
C33	Internal	Prof. Snehal Andhar Prof. Sachin Deshpande	Vidyalankar Institute of Technology	Object Tracking Using Wireless Sensor Network
C34	Internal	Yogesh Prabhu	Vidyalankar Institute of Technology	An Effective and Feasible Traceback Scheme in Mobile Internet Environment
C35	Internal	Arunima Ratankumar	Vidyalankar Institute of Technology	Internet of Things for Smart Things: Smart Water Conservation
C36	Internal	Kausar S. Attar Vipul Dalal	Vidyalankar Institute of Technology	Horizontal Aggregation In SQL to Prepare Data Set for Data Mining Ananlysis
C37	Internal	Pradnya Bhirud	Vidyalankar Institute of Technology	Defending Against Sybil Attacks via Social Networks
C38	Internal	Lakshmisampanna N Prof. Kavita P. Shirsat	Vidyalankar Institute of Technology	Analysis of Fine Grained Opinion Mining Techniques
C39	Internal	Sayali Kadam Dilip Motwani	Vidyalankar Institute of Technology	Big Data Analysis: Recommendation System Using Hadoop Framework
C40	Internal	Shantanu Deshmukh Rinku Shah	Vidyalankar Institute of Technology	Computation Offloading In Mobile Cloud Computing
C41	Internal	Shreya Bamne	Vidyalankar Institute of Technology	Predictive Analytics Using Divergent Sources – A Big Data Approach

Poster No	Internal/ External	Name of Author	Institute	Poster Title
C42	Internal	Amit Dhanwani Sanket Nawle Shruti Sadalge Abhijeet Gite	Vidyalankar Institute of Technology	What's Happening? : An Android application as event organizer and manager
C43	Internal	Amit Dhanwani Prasad Satpute Ritesh Tambe	Vidyalankar Institute of Technology	Agromate: The Web Based Application As Farmer's Friend
C44	Internal	Saurab Mehta Md.Humaun Kabir Mst.Najnin Sultana K.S.Kwak	Vidyalankar Institute of Technology	On Applicability of Current Network and System Simulation Tools to Next Generation Networks: A Case Study
C45	Internal	Akhila Joshi Dr Saurabh Mehta	Vidyalankar Institute of Technology	Performance Analysis and Comparison of Cluster Based Routing Protocols in WSN
C46	Internal	Amol Wani Vishal Chiluka Vismay Mane Prof. Pankaj Vanwari	Vidyalankar Institute of Technology	Amplifying Learning Through Electronic Textbooks
C47	Internal	Kavita Patil	Vidyalankar Institute of Technology	Ciphertext-Policy Attribute based Data-Sharing With Enhanced Productivity and Security
C48	Internal	Miss. Pranali Patil, Prof. Rugved Deolekar	Vidyalankar Institute of Technology	Best Product Selecting From Comparative Question Using Cosine Similarity And Weight Feature Analysis Method
C49	Internal	Tanaya Acharekar,Avinash Palghadmal	Vidyalankar School of Information Technology Pub Matic India Pvt ltd.	Big data for managing human resources: The haves and the have nots.
C50	Internal	Ms.Maria Achary & Ms.Swapna Kadam	Vidyalankar School of Information Technology	Mobile Controlled Spybot
E1	IIT	Ashish Chittora Sandeep Singh Archana Sharma Jayanta Mukherjee	Indian Institute of Technology Bombay	A Novel TM01 to TE11 Mode Converter for High Power Microwave Applications
E2	IIT	G Shrikanth Reddy Jayanta Mukherjee	Indian Institute of Technology Bombay	Elliptical UWB antenna loaded with RLR and Semi – elliptical Slot for Multi band – Rejection
E3	IIT	R. Warier A. Sinha	Indian Institute of Technology Bombay	Los Based Attitude Alignment Of Two Spacecraft In Formation
E4	IIT	Pragati Patel Biswajeet Mukherjee Jayanta Mukherjee	Indian Institute of Technology Bombay	New Wideband Dielectric Resonator Antenna with Rectangular Cross-section
E5	IIT	N.R. Chowdhury S. Srikant	Indian Institute of Technology Bombay	Consensus Analysis Of Double Integrator Agents With Persistent Interaction Graph

Poster No	Internal/ External	Name of Author	Institute	Poster Title
E6	External	Sanket S. Ghate Sangeeta V. Kurundkar	Vishwakarma Institute Of Technology Pune	Smart Waste Management System
E7	External	Pankaj E. Ipar Shilpa M. Lambor Sangeeta M. Joshi	Vishwakarma Institute Of Technology Pune	Exploring the Various Techniques of Energy Harvesting
E8	External	Ms.Poorva Waingankar Dr.Ms.Sangeeta Joshi Mr.Ronik Doshi	TCET ,Kandivali	Video Decoding for Mobile using Android Application
E9	External	Anagha Narayanan Nayan Suryavanshi Aishwarya Tipnis Labdhi Kamdar Prof. Geeta Narayanan	K.J.Somaiya College of Engineering	Data Transfer through Human body as Red- Tacton
E10	Internal	Amey S. Revandkar Ajitkumar.R.Khachane Gajanan D.Nagare	Vidyalankar Institute of Technology	Optimization of RF MEMS Switch
E11	Internal	Prof. Pratik Tawde	Vidyalankar Institute of Technology	MATLAB Simulations In Electrical Technology
E12	Internal	Swapnil Ashtekar Snehal Chothe	Vidyalankar Institute of Technology	Performance analysis of planar Antenna using Defected ground structures
E13	Internal	Pranita P.Padhye	Vidyalankar Institute of Technology	Performance Enhancement of Microstrip BPF Using DGS
E14	Internal	Ms.Tanvi Chavan	Vidyalankar Institute of Technology	Design Of Random Image Slicer Using Implementation On Steganography
E15	Internal	Satish. K. Hatwar Prof. Vijay Purohit	Vidyalankar Institute of Technology	Recovery of Detected Node Failure in Wireless Sensor Network
E16	Internal	Prof. Sandhya Kumar Dr. Anjali Deshpande Prof. Ashish Ukidve	Vidyalankar Institute of Technology	Dual converter Based Bi-directional Speed control of DC Motor using DSP processor
E17	Internal	Nayana P. Mahajan Dr. S.B. Deshpande	Vidyalankar Institute of Technology	Study of Nonlinear Behavior of DC Motor Using Modeling and Simulation
E18	Internal	Ms. Deepali shrikhande	Vidyalankar Institute of Technology	Image Processing Based Multi-touch interaction with gesture recognition
E19	Internal	Heena Mhatre Varsha Bhosale	Vidyalankar Institute of Technology	Fast Superreslution
E20	Internal	Dr . Poonam Bathla	Vidyalankar Institute of Technology	Decolourization of Distillery Effluent using Flyash and Woodash

Poster No	Internal/ External	Name of Author	Institute	Poster Title
E21	Internal	Sadaf Sayed Dr.Varsha Turkar	Vidyalankar Institute of Technology	Microwave Remote Sensing
E22	Internal	Ashish A. Bait Nilesh Narkhede Suraj More Sagar Paarcha Sangeeta Joshi	Vidyalankar Institute of Technology	Design Optimization of Double gate MOSFET device : A Simulation Study
E23	Internal	Siddiqui Darakhshan Prof. Vijay Purohit Prof. Atul Oak	Vidyalankar Institute of Technology	Smart Navigation System for Blind.
E24	Internal	Aksa Satkut Dr. Sangeeta Joshi	Vidyalankar Institute of Technology	Multigate Devices – A paradigm shift in VLSI Technology
E25	Internal	Pooja V. Pawar Varsha Turkar	Vidyalankar Institute of Technology	Hyperspectral Remote Sensing
E26	Internal	Rahul Jare Poonam Mulik Sana Dongre Menaka Shetty Rakshak Sood	Vidyalankar Institute of Technology	Client Server Based WSN
E27	Internal	Samrin Ansari Prof Dr. Sangeeta Joshi	Vidyalankar Institute of Technology	Nanowire: An Innovative Approach For 22nm Technology Node
E28	Internal	Pramod Kailas Padwal Prof. Vibha Wali	Vidyalankar Institute of Technology	Fraud detection techniques in telecommunication
E29	Internal	Supriya. L. Shitole	Vidyalankar Institute of Technology	Evolving Trust Model for MANET using Secure Routing Algorithm
E30	Internal	Khan Anam Beena Ballal	Vidyalankar Institute of Technology	A Graph Based Reliable Routing Scheme for VANETS
E31	Internal	Husain Siddiqui Prof. Satendra Mane.	Vidyalankar Institute of Technology	Embedded Web Server based remote Laboratory for distance Learning
E32	Internal	Mohit Gujar Prof. Shrikant Velankar.	Vidyalankar Institute of Technology	Visible Light Communication (VLC)
E33	External	Subha Subramaniam Sangeeta M Joshi R N Awale	VJTI	Design and Analysis of CMOS Inverter Circuit with N-InGaAs and P-SiGe Vertical Nanowire Transistors
E34	Internal	Vrushali Bhangale	Vidyalankar Institute of Technology	Classification of Satellite Images Based on Cellular Automata

Poster No	Internal/ External	Name of Author	Institute	Poster Title
E35	Internal	Poonam Shah	Vidyalankar Institute of Technology	Real Time TLD-BOT Tracking learning Detection using Robot
E36	Internal	Priyadarshini Adap Vijay Purohit	Vidyalankar Institute of Technology	Internet of Things
E37	Internal	Minal Tandale Prof Shraddha Panbude Prof Amaya Pethe Prof B. Ramarao	Vidyalankar Institute of Technology	Spectrum sensing in cognitive radio
E38	Internal	Manish Soni Aatira Pillai Manish Gangwal Sagar Pawar Rakshak Sood	Vidyalankar Institute of Technology	Wireless Pro-Scanner
E39	Internal	Menka Singh Prof.Shraddha Panbude Prof. Rama Rao.	Vidyalankar Institute of Technology	Design Of Compact Dual Band Antenna Loaded With EBG Metamaterial.
E40	External	ShilpaM.Lambor SangeetaM. Joshi	Vishwakarma Institute of Technology, Pune	Analysis of Routing in Wireless Sensor Networks Using Markov Model and its Validation Using Regression Analysis
E41	External	Sangita Kurundkar Sangeeta Joshi Laxman Waghmare	VIT CoE , Pune ; Vidyalankar Institute of Technology SGSSIE&T, Nanded	Performance Evaluation of Improved AODV with Cross layer Functionality
E42	Internal	Sonal Santosh Patil Prof. Pravin Patil, Prof. Santosh Jagtap	Vidyalankar Institute of Technology	Hybrid Optical Amplifiers
E43	Internal	Vedprakash Gujjiri,Prof.Santosh Jagtap,Prof Anuradha Joshi,Prof.Arun Chavan	Vidyalankar Institute of Technology	Non Linear Phase Noise in Optical Systems
E44	Internal	ManjuMishra, Dr. Anand R Tripathi, S.N. Dixit and Dr. S. K. Tripathi	Vidyalankar Institute of Technology	Experimental studies of TiO2 Based Nanocomposite Gel Polymer Electrolyte
M1	Internal	Dr. Siddhesh Patil	VSIT	Ethnographic Study in relation to Environmental Conservation with reference to Hinduism
M2	Internal	Utpala Das	Vidyalankar Institute of	Technopreneurship in Travel and Tourism

Poster No	Internal/ External	Name of Author	Institute	Poster Title
			Technology	in India
M3	Internal	Ms. Prita Patil	Vidyalankar Institute of Technology	Academic Module for Education Institutes
M4	Internal	Vibha S. Wali	Vidyalankar Institute of Technology	Structured Motivation Programme for Under achieving Students in Engineering
M5	Internal	Neha Sen	Vidyalankar Institute of Technology	Electronic Payment Methods and Systems
M6	Internal	Jay Bhatt	Vidyalankar Institute of Technology	What factored the decline of the Small Scale Industry

Acknowledgement:

We are extremely grateful to Hon. Chairperson Dr. Sanjeewani Deshpande, Hon. Trsutee Mr. Vishwas Deshpande, Vidyalankar Dyanpeeth Trust and the Hon. Director, Shri. Milind Tadvalkar for their continuous support, encouragement and hour to hour guidance and also for providing stimulating environment for promoting research at this campus. We must mention our deep sense of appreciation for the complete financial support for organising this symposium. Therefore, it would be possible to award 85 fellowships to the participants.

We extend our hearty vote of thanks to Hon. Dr. Sanjay Deshmukh, Vice Chancellor, University of Mumbai for collaborating with us in organising this symposium.

On behalf of Vidyalankar family, we extend our hearty thanks to Tata Consultancy Services, Mumbai for co-sponsoring this event which assisted us in awarding 20 fellowships and best posters awards.

 On behalf of entire Vidyalankar family, we convey deep regards and hearty thanks to Prof. Shevgaonkar, eminent professor at IIT Bombay, and Mr. B.K. Soni, Chairman & Managing Director, Eco-recycling Ltd, Mumbai, Mr. Dineshkumar, Group Leader, TCS Innovation Lab, TCS for gracing the research symposium and sharing with us their views.

Further, we are grateful to Prof. Narayankhedkar, Principal, MGM college of Engineering, Mumbai, Prof. Devane, Professor and Head, Computer Engineering Department, Datta Meghe College of Engineering, Mumbai, Mr. Anand Paralkar, Consultant, Vidyalankar College of Engineering, Mumbai and Mr. Gaurav Gandhi, Academic Relationship Manager, TCS for accepting our invitation as Jury member and evaluating 105 posters.

We wish to express our deep sense of gratitude to all the members of the organising committee without whom it would not have been possible for me take such a big challenge. We must mention here that all the members have handled their roles and responsibilities with a great enthusiasm and joy and along with their regular academic duties.

We congratulate all the participants for participating in this symposium. We are sure that participation in such events helps to create a research culture in academia and inculcates a habit of expressing ideas in a rational and convincing manner.

We are thankful to all the participants for their efforts in preparation of posters and participating in this event and making this event a grand success.