

ZEAL EDUCATION SOCIETY'S ZEAL COLLEGE OF ENGINEERING AND RESEARCH NARHE | PUNE -41 | INDIA DEPARTMENT OF INFORMATION TECHNOLGY

INDEX

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the A.Y. 2017-18

Dates (from-to) (DD-MM-YYYY)	Title of the FDP / professional development / administrative training program	No. of participants	Link to relevant document / brochure / report hosted on official institutional website
06/06/2017 to 10/06/2017	Discrete Mathematics and Mathematical Modeling	50	
28/08/2017 to 01/09/2017	Firewall Installation, Configuration and Management	34	
11/12/2017 to 16/12/2017	STTP on system programming & advances in compiler construction	10	



Dept. of Information Tech. Engg.
ZES's Zeal College
of Engineering & Research,
Narhe, Pune - 411 041



ZEAL EDUCATION SOCIETY'S ZEAL COLLEGE OF ENGINEERING & RESEARCH DEPARTMENT OF INFORMATION TECHNOLOGY

Sr.No. 39, Narhe, Pune-41. phone no. 020-67206127

Website:www.zcoer.in

Report: Discrete Mathematics and Mathematical Modeling

One week National level Short Term Training Program on "Discrete Mathematics and Mathematical Modeling" was organized by Department of Computer Engineering and Information Technology of Zeal college of Engineering and research during 6th to 10th June 2017. Total 34 participants from various engineering institutes and industries across Maharashtra state had participated in this workshop.

The aim of this STTP was to bring active and emerging topics of discrete mathematical models to describe our beliefs about how the world functions. In mathematical modeling, we translate those beliefs into the language of mathematics. There is a large element of compromise in mathematical modeling. The majority of interacting systems in the real world are far too complicated to model in their entirety. Mathematical modeling can be used for a number of different reasons.

Objectives:

- > To explore the concepts of discrete mathematics with its Engineering Applications.
- To provide new insights and knowledge about the topic through close interactions/discussions with the senior Faculty Members/Scientists and Experts of the respective field.
- To study how discrete objects combine with one another.
- > To understand how computer implementations are significant in applying ideas from discrete mathematics to real world problems.
- To learn appropriate use of set, function and relation models to understand practical examples, and interpret the associated operations and terminologies in context.
- To determine number of logical possibilities of events and to learn logic and proof techniques to expand mathematical maturity.

Formulate problems precisely, solve the problems, apply formal proof techniques, and explain the reasoning clearly.

Various experts from industries and academic institutes had contributed to this workshop by their able guidance. Following topics get covered in this workshop.

- 1. Set Theory & Logic, Relations and Functions by Dr. Om Prakash IIT, Patna.
- 2. Graph Theory by Dr. Charusheela Deshpande, College of Engineering Pune.
- 3. Permutation, Combinations & Discrete Probability by Dr. Swanand Khare IIT, Kharagpur.
- 4. Algebraic Structure & Coding by Dr. B. N. Waphare, Mathematics Department SPPU, Pune.
- 5. Tress by Dr. S.S.Barde, SKNCOE, Pune
- 6. Trees and its Applications by Dr. Sunil Dhore, Army Institute of Technolgy, Pune.
- 7. Applying Mathematical Modeling in research by Dr. P. N. Mahalle, BOS, Chairman, IT, SPPU, Pune.
- 8. Mathematical modeling by Prof. S. S. Shelke, PICT Pune.

This Short term training program was inaugurated by Dr. A. B. More, Executive Council Member, ISTE, Dr. Parikshit N. Mahalle BOS, Chairman, IT, SPPU, Pune, Dr. Om Prakash, IIT, Patna Dr. Sanjay A. Deokar, Campus Director Zeal Education Society, Dr. A.M.Kate principal Zeal college of Engineering and Research, Prof. S.M.Sangve, Head of Computer Engineering Department, Prof S.U. Kadam, Head of Information Technology department.

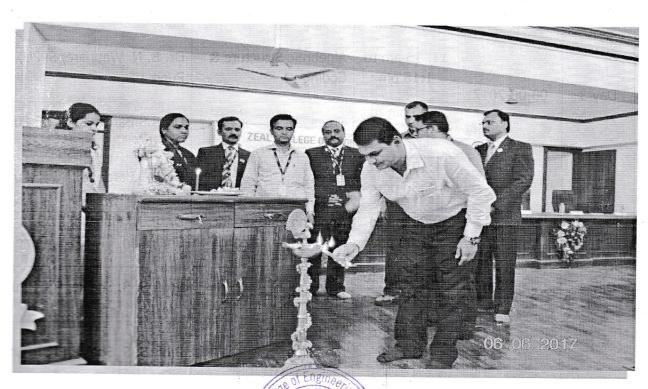


Day wise Session plan

Day	Date	Time	Topic	Resource Person
-	8	10:00 am to 12:00 pm	Set Theory & Logic	Dr. Om Prakash IIT, Patna
Day 1	06-06-2017	12: 45 pm to 2:45 pm	Set Theory & Logic	Dr. Om Prakash IIT, Patna
		3:00 pm to 5:30 pm	Graph Theory	Dr. Charusheela Deshpande , COEP, Pune
		09:00 am to 11:00 am	Permutation, Combinations & Discrete Probability	Dr. Swanand Khare IIT, Kharagpur
Day 2	07-06-2017	11: 15 am to 1:15 pm	Permutation, Combinations & Discrete Probability	Dr. Swanand Khare IIT, Kharagpur
Duy Z	0, 00 201,	2:00 pm to 4:00 pm	Relations and Functions	Dr. Om Prakash IIT, Patna
		4:10 pm to 5:30 pm	Relations and Functions	Dr. Om Prakash IIT, Patna
		09:00 am to 11:00 am	Algebraic Structure & Coding	Dr. B. N. Waphare, SPPU, Pune
Day 3	08-06-2017	11: 15 am to 1:15 pm	Algebraic Structure & Coding	Dr. B. N. Waphare, SPPU, Pune
Duy 3	00 00 2017	2:00 pm to 4:00 pm	Trees	Dr. S.S.Barde, SKNCOE,Pune
		4:10 pm to 5:30 pm	Trees	Dr. S.S.Barde, SKNCOE,Pune
		9:00 am to 11:00 pm	Applying Mathematical Modeling in research	Dr. P. N. Mahalle, BOS, Chairman, IT, SPPU, Pune
Day 4	09-06-2017	11: 15 am to 1:15 pm	Mathematical Modeling	Prof. S. S. Shelke, PICT Pune
		2:15 pm to 4:15 pm	Mathematical modeling	Prof. S. S. Shelke PICT Pune
Day 5	10-06-2017	10: 00 am to 1:00 pm	Mathematical Modeling	Dr. S. R.Dhore, AIT, Pune
Day J	10 00 2017	2:00 pm to 4:00pm	Mathematical Modeling	Dr. S. R.Dhore, AIT, Pune

Photo Gallery of Discrete Mathematics and Mathematical Modeling:









Convener: Prof. Sandeep U. Kadam

Head of Information Technology

Dept. of Information Tech. Engg. ZES's Zeal Gellege of Engineering & Research, Narhe, Pune - 411 041. Prof. S.M. Sangve

Head of Computer Engineering



Advisory Committee

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Dean, Science & Technology, SPPU, Pune

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Chairman, BOS, Information Technology, SPPU, Pune Dr. P. D. Patil

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Professor, E&TC, ZCOER, Pune



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Hon 'ble Mr. S. M. Katkaı Founder Director, ZES, Pune

Prof. P.K. Desai President, ISTE

Dr. A. M. Kate

Director, ZES, Narhe Dr. S. A. Deokar

Principal, ZCOER, Pune

Convener

Prof. S. U. Kadam

Prof. S. M. Sangve

Head, Information Technology Head, Computer Engineering

Coordinator

Prof. U. L. Talware Computer Engineering

Information Technology Prof. A. R. Sheikh

Resource Persons



Dr. Om Prakash IIT, Patna

Dr. Swanand Khare



Savitribai Phule Pune University, Pune. Dr. B. N. Waphare



Dr. C.M. DeshpandeCollege of Engineering Pune



Dr. S.R.Dhore

Army Institute of Technology, Pune

SKNCOE, Pune

Dr. P.N. Mahalle



Prof. S.S. Shelke PICT, Pune

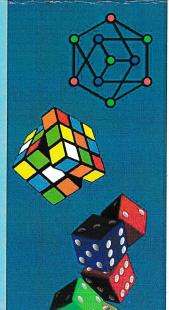


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Short Term Training Program o One Week National Level **ISTE Approved**

Mathematical Modelir Discrete Mathematics

6th June to 10th June 2017



Organized by

Department of Computer Engineering Information Technology

ZEAL COLLEGE OF ENGINEERING AND RESEARCH, PUNE- 411041. ZEAL EDUCATION SOCIETY'S

Vision:

Mission: To impart value added futuristic technological educatio

and research. To contribute to society through the pursuit of education

make students enlightened To produce competent and socially responsible professi To provide individual attention for character building to

About Zeal Education Society:

Zeal Education Society (ZES) is established in year 1996 under able guidance of Hon'ble Shri. S. M. Katkar to noble cause of education. During last few years, ZES has proved for being a well known organization in the field of education. Within the time span of 20 years, ZES has established Dnyanganga English Medium school, Dnyanganga Junior college, Dnyanganga College of education, Silver Crest School at Hingane Campus and Zeal College of Engineering and Research, Zeal Polytechnic, Zeal Institute of Business Administration, Computer Application & Research, Zeal Institute of Management & Computer Application at Narhe Campus.

About Zeal College of Engineering and Research:

future to its students. excellent academic ambience for the students. Dedicated infrastructural, sports, cultural facilities the campus provides of the key features of the institute. With state of art research, experienced faculties with good research background are one Savitribai Phule Pune University, since 2013. Well qualified and institute is also granted as PhD research center in Electronics & Mechanical, Civil and Electronics & Telecommunication. The programmes in Information Technology, Computer, Electrical, under graduate and post graduate engineering degree to Savitribai Phule Pune University, Pune. The Institute offers symbolized the beginning of new era in technical education. Engineering and Research) is established in June 2007 which Research (Formally Known as Dnyanganga College of Training and Placement Cell of the institute ensures a bright Telecommunication and Mechanical Engineering under The Institute has been approved by AICTE, DTE and affiliated Zeal Education Society's Zeal College of Engineering and

About Department:

Departments of Computer Engineering and Information Technology are like prism reflecting the manifold shades of learning and co-curricular activities and determined towards the goal of providing innovative and quality education with high standard to achieve academic excellence. The Departments of Computer Engineering and Information Technology are facilitated with state of the art infrastructure and well equipped laboratories. We are confident that our students will emerge as assets not only to this institution and to the organization they belong, but also to the country at a large.

About STTP:

Discrete Mathematics is a branch of mathematics involved discrete elements that uses algebra and arithmetic. It is increasingly being applied in the practical fields of mathematics and computer science. It is a very good tool for improving reasoning and problem-solving capabilities. This STTP is intended to explain the fundamental concepts of Sets, Relations and Functions, Mathematical Logic, Group theory, Counting Theory, Probability, Mathematical Induction and Recurrence Relations, Graph Theory, Trees and Boolean Algebra. Mathematical modeling translates real world problems into the language of mathematics. Another objective is to create awareness about applying mathematical modeling to the problems of Computer Engineering.

Objectives:

- To explore the concepts of discrete mathematics with its Engineering Applications.
- To provide new insights and knowledge about the topic through close interactions/discussions with the senior Faculty Members/Scientists and Experts of the respective field.
- To study how discrete objects combine with one another.
- To understand how computer implementations are significant in applying ideas from discrete mathematics to real world problems.

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- To determine number of logical possibilities of events and to learn logic and proof techniques to expand mathematical maturity.

Formulate problems precisely, solve the problems, apply formal proof techniques, and understand the reasoning clearly.

Content of STTP:

Short Term Training Program is intended to explore the knowledge and techniques in following areas of Discrete Mathematics.

- Set Theory and Logic
- Relations and Functions
- Permutation, Combination & Probability
- Graph Theory
- Irees
- Algebraic Structures and Coding
- Mathematical Modeling

Registration Details:

Please visit following link for registration:

https://goo.gl/4t47GU

Last Date of Registration: May 31, 2017

For more information please contact

Prof. S. S. Awate (8378 989 737)

Prof. S. P. Vanjari (9503 155 541)

Mode of Payment:

Online: You can make online Payment using NEFT/IMPS Account No: 053011100003398
IFSC Code: ABHY0065110,

MICR Code: 411065013

Bank: Abhyudaya Co-op, Bank Ltd. Sinhgad road, Pune Participants should mail transaction receipt of online pay dmmm@zealeducation.com

Accommodation: Paid Accommodation is available if requ Contact : Prof. S. R. Gajbhiye (7030479786)

Registration Fees:



Zeal Education Society's

Zeal College of Engineering & Research



Department of Information Technology & Computer Engineering

One Week National Level Short Term Training Program on

"Discrete Mathematics and Mathematical Modeling"

(6th June to 10th June 2017)

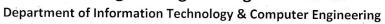
Participants Attendance List Date-08/06/2017

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Zeal Education Society's Zeal College of Engineering & Research





One Week National Level Short Term Training Program on

"Discrete Mathematics and Mathematical Modeling"

(6th June to 10th June 2017)

Participants Attendance List

Date-09/06/2017

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31	Mrs. Vinjayalasını M.K	Dhali	Ochoilr
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33	Bhagyashri Vycs	Bys	By
34.	Chetan Gangai	Changai	Cangai
35.	Balagi S. Kamble	Bhanble	-BKamble
36.	Dryaneshwar S. Gawali	Gawali	Gavali
37.	Dr. S. R. Shaikh	Qu.	Qu.
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Zeal Education Society's

LEAL COLLEGE OF ENGINEERING & RESEARC NARHE, PUNE



"DISCRETE MATHEMATICS AND MATHEMATICAL MODELING" 6th June to 10th June 2017

Organized by

Department of Information Technology & Computer Engineering

CERMANCATE ===

This is to certify that Mr./Ms./Mrs.....has participated

in One week National Level Short Term Training Program on " Discrete Mathematics and

Mathematical Modeling" from 6th to 10th June, 2017 held at Zeal College of Engineering and

Research, Pune.

Prof. S.U.Kadam

Information Technology

Prof. S.M.Sangve

Computer Engineering

Dr. A.M.Kate

Principal

Dr. S.A.Deokar

Campus Director



ZEAL EDUCATION SOCIETY'S ZEAL COLLEGE OF ENGINEERING & RESEARCH DEPARTMENT OF INFORMATION TECHNOLOGY Sr.no. 39, Narhe, Pune-41. phone no. 020-67206127 Website:www.zcoer.in

Report of 05daysWorkshop on

"Palo Alto Firewall Installation, Configuration and Management"

Department of Information Technology organized 05 days workshop on "Firewall Installation, Configuration and Management" from 28thAuusgust 2017 to 01st September 2017. The objective of workshop is to make faculty members skilled in Palo Alto Networks® Next-Generation firewalls, installation, configuration and management.

Workshop conducted by Mr. Shanmughavel S, Senior Manager – IT, Training and Research , ICT Academy from 28^{th} August 2017 to 1^{st} September 2017. On Successful completion of this course,the faculty members were able to install, configure, and manage the entire line of Palo Alto Networks® Next-Generation firewalls.

The welcome function was on 28th August 2017, Prof. P.A. Chowan introduced resource person, and then he got felicitated by Dr. A.M. Kate, Principal, Zeal College of Engineering and Research Pune. Prof. S. U. Kadam, Head, Department of Information Technology delivered welcome address and introduced about PaloAlto Networks association.

Faculty memersattending this workshop gained an in-depth knowledge of how to install, configures, and manages their firewall, as well as configuration steps for the security, networking, and threat prevention, logging, and reporting features of the Palo Alto Networks Operating System (PAN-OS®).

The contents of this course were designed to support the course objectives. The following focus areas were included in this course:

- Module 1: Platforms and Architecture
- Module 2: Initial Configuration
- Module 3: Basic Interface Configuration
- Module 4: Security and NAT Policies
- Module 5: Basic App-ID
- Module 6: Basic Content-ID
- Module 7: File Blocking and WildFire
- Module 8: Decryption
- Module 9: Basic User-ID
- Module 10: Site-to-Site VPN



Module 11: Management and Reporting

• Module 12: Active/Passive High Availability

Overall session was interactive and faculties were well trained about knowledge of palo alto firewall also provide the security and block particular sites, prevent network from external viruses, malware etc. Blocking of exe file, creation of Virtual Machine, Adding more than 2 NIC cards on Virtual Machine and add adapters to connect internet on virtual machine.

At the last day, participant faculties were instructed to do the hands on Paloalto Firewall Installation, Configuration and Management, and ask to compete the assignment. Prof. A.V.Patil put vote of thanks and session was ended by taking valedictory function.

Prof. A.V. Patik Workshop Coordinator Prof. S.U. Kadam

Head Information Technology

Dept. of Information Tech. Engg.

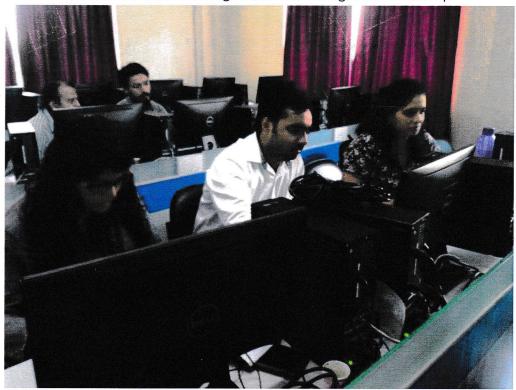
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of Engineering & Research, Narhe, Pune - 411 041.





Firewall Installation Configuration and Management Workshop







Participants with Paloalto Firewall Installation and configuration workshop team.







Faculty Development Programme on

Firewall Installation, Configuration and Management

28 Aug - 01 Sep 2017

Zeal Education Society's Zeal College of Engineering & Research, Pune





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Faculty Development Program Firewall Installation, Configuration and Management 28th Aug-1st Sept 2017 Attendance

Sr.	Participant Name	Name of College	Department	Signature 28-8-2017	Signature 29-8-2017	Signature 30-8-2017	Signature 31-8-2017
0	Pronjali Kothawade	BABUCOEP	restriction	And	Bolloke	Solver .	130
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Faculty Development Program Firewall Installation, Configuration and Management 28th Aug-1st Sept 2017 Attendance

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Faculty Development Program Firewall Installation, Configuration and Management 28th Aug-1st Sept 2017 Attendance

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ZEAL COLLEGE OF ENGINEERING AND RESEARCH

Sr.No. 39, Narhe, Pune-411041, India. Phone No. 020-67206103/131 Website: www.zcoer.in E-mail: contact@zealeducation.com

SHORT TERM TRAINING PROGRAM

in association with





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FACULTIES INVITED FROM



COMPUTER **ENGINEERING**



CIVIL **ENGINEERING**



ELECTRICAL ENGINEERING



E&TC **ENGINEERING**



TECHNOLOGY



INFORMATION MECHANICAL **ENGINEERING**

ABOUT ZEAL EDUCATION SOCIETY



Zeal Education Society (ZES) is established in year 1996 under the able guidance of Hon. Shri S.M. Katkar to noble cause of education. During last few years, ZES has proved for being a well known organization in the field of education. Within the time span of 20 years, ZES has established Dnyanganga English Medium school, Dnyanganga Junior college, Dnyanganga college of education, Silver Crest School at Hingane Campus and Zeal College of Engineering and Research, Zeal Polytechnic, The Zeal Institute of Business Administration, Computer Application & Research, Zeal Institute of Management & Computer Application at Narhe Campus.

ABOUT ZEAL COLLEGE OF ENGINEERING



Zeal Education Society's, Zeal College of Engineering and Research (Formally Known as Dnyanganga College of Engineering and Research) is established in June 2007 which symbolized the beginning of new era in technical education. The Institute has been approved by AICTE, DTE and affiliated to Savitribai Phule Pune University, Pune. The Institute offers undergraduate and postgraduate Engineering degree programmes in Information Technology, Computer, Electrical, Mechanical, Civil and Electronics & Telecommunication. The institute is also granted as PhD research center in Electronics & Telecommunication and Mechanical Engineering under Savitribai Phule Pune University, since 2013. Well qualified and experienced faculties with good research background are one of the key features of the institute. With state of art research, infrastructural, sports, cultural facilities the campus provides excellent academic ambience for the students.

Dedicated Training and Placement Cell of the institute ensures a bright future to its students.



"RESEARCH TRENDS IN DESIGN AND ANALYSIS OF ALGORITHMS WITH R-PROGRAMMING"

December 04th to 08th, 2017

About Department:

Department of Computer Engineering is like prism reflecting the manifold shades of learning and co-curricular activities and determined towards the goal of providing innovative and quality education with high standard to achieve academic excellence. The Department is facilitated with state of the art infrastructure and well equipped laboratories. Thus we are confident that our students will emerge as assets not only to this institution and to the organization they belong, but also to the country at a large.

About STTP:

Design and Analysis of Algorithm is a systematic way of writing algorithms. It is increasingly being applied in the practical fields of mathematics and computer science. This STTP is intended to elaborate the fundamental concepts like Divide & Conquer, Greedy Algorithms, Dynamic Programming, Backtracking, Branch & Bound along with the tractable and intractable problems. This STTP is also focusing on various algorithms used in data analysis using R programming and Machine Learning.

Contents of STTP

Short Term Training Program is intended to explore the knowledge and techniques in following areas of Design and Analysis of Algorithms (DAA).

- DAA Fundamental
- Model and Abstract Algorithms
- Complexity Theory
- About R Programming
- Hands on R Programming
- Decision tree and Naive Bayes classifier
- Applications of Machine learning
- Pattern recognition and classification

Objectives

To provide new insights and knowledge on STTP topic by interacting with the senior Faculty Members/Scientists and Experts of the respective field.

- To study the fundamental concepts of Design and Analysis of Algorithms
- To discuss the problem solving abilities using mathematical theories
- To discuss the concepts of Computer algorithms to find the optimal solution
- To discuss the concepts of analyzing the performance of algorithms
- To discuss the concept of P & NP problems
- To study the implementation of innovative and effective teaching learning methodologies for imparting the course knowledge amongst the students/learners of the subject
- To formulate problems precisely, solve the problems, apply formal proof techniques, and explain the reasoning clearly
- To discuss applications of DAA, R-programming & Machine Learning

Resource Persons



Dr. P. J. Kulkarni Deputy Director, WCE, Sangli



Dr. P. N. Mahalle BoS (IT) Chairman, BoS (Comp) Member, SPPU, Pune



Prof. Abhijit A. M.



Dr. Prachi Joshi SPPU, Pune



Dr. A. C. Adamuthe RIT Sakarale



Mr. R. P. Kulkarni Consultant, Corporate Trainer Capgemini, Pune



Prof. S. S. Shelke



Prof. S. P. Pundlik MITCOE. Pune

Course Coordinators

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Prof. Balaji A. Chaugule

balaji.chaugule@zealeducation.com 9552209907

AICTE - ISTE Approved STTP Last Date of Registration 2nd December, 2017 **Registration Fees: 1500/-**

INFORMATION TECHNOLOGY



"SYSTEM PROGRAMMING AND ADVANCES IN COMPILER CONSTRUCTION"

About Department:

December 11th to 16th, 2017

Department of Information Technology is like prism reflecting the manifold shades of learning and co-curricular activities and determined towards the goal of providing innovative and quality education with high standard to achieve academic excellence. The Department of Information Technology are facilitated with state of the art infrastructure and well equipped laboratories. Thus we are confident that our students will emerge as assets not only to this institution and to the organization they belong, but also to the country at a large. The Department is having association with International Software Testing Qualification Board, Hortonworks University-USA, Pallo Alto Networks-USA, Asian School of Cyber Laws, Spoken Tutorial IIT Bombay, Amazon Web services Educate, DELL EMC for knowledge transfer and international certification programs.

System programming aims to produce software and software platforms which provide services to other software. The STTP is intended to explore concept and advancement in compiler construction by renowned academicians invited from IIT, NIT, State Universities etc. Resource person from industry will help faculty member to enhance their practical skill in system level programming thorough hands on sessions.

Contents of STTP

Experts from academics and industry will elaborate following topics of system programming and advances in compiler construction.

- Introduction to Systems Programming and Assemblers
- Macro processors, Loaders and Linkers
- Introduction to Compilers
- **Parsers**
- Semantic Analysis and Storage Allocation
- Code Generation and Optimization
- Hands on sessions for implementing assembler, macroprocessor, parser etc.

Objectives

- To determine Basic syntax and semantics of Compiler Construction and Design
- To explore the concepts of Computer Organization and architecture, Processor Architecture and Interfacing and Theory of Computation: DFA, NFA, Regular expressions, Grammars
- To provide new insights and knowledge about the topic through close interactions/discussions with the senior Faculty Members/Scientists and Experts of the respective field
- To study and understand different system software like Assembler, Macro-processor and Loaders / Linkers
- To understand semantic analysis and storage allocation in compilation process
- To understand how to apply code optimization in the compilation process to use YACC tool for generation of syntax analyzer and to use tool LEX for generation of Lexical Analyzer
- To design and implement assemblers and macro processors
- Formulate problems in design and develop useful system software

Resource Persons



Dr. O.G. Kakde VNIT, Nagpur Former Director, VJTI, Mumbai.



Dr. Pratyay Kuila NIT. Sikkim



Dr. Jagannath V. Aghav COEP. Pune.



Prof. Vidya V. Deshpande MIT. Pune



Prof. Kirti, S. Korabu SCOE, Vadgaon



Mr. Mahesh A. Pavaskar Senior Software Engineer GS Lab, Pune

Course Coordinators

Prof. Rahul H.Bhole Mob.7219774770 rahul.bhole@zealeducation.com Prof. Shital D. Bachpalle Mob. 9284518422

shital.bachpalle@zealeducation.com

Last Date of Registration 5th December, 2017 **Registration Fees: 1500/-**

AICTE - ISTE Approved STTP



"TEACHING LEARNING PRACTICES IN STRUCTURAL DESIGN AND DRAWING"

December 4th to 8th, 2017

About Department

A new feather in the cap of Zeal Education Society, the Civil Engineering Department was established in 2013. Although new, the department offers top class infrastructure to explore the potential of our students. Zeal College of Engineering and Research offers a four-year course leading to Bachelor's degree in Civil Engineering with an intake capacity of 60. Like all other institutes under Zeal College, the Civil Engineering Department is determined to offer and maintain high standards in extremely competitive and demanding world.

About STTP

It has been observed that undergraduate Civil Engineering students feel some difficulties in understanding the structural Design subjects. In this context, it is necessary to train students with good scientific and engineering principles so that they can analyze and design different types of structures. On the contrary faculty find it challenging to teach this subject due to difficulty in visualizing the behavior of different structures. To Shapeup teaching learning practices and groom the faculty members about effective content delivery, Civil Engineering Department is organizing short term training program

Contents of STTP

Short Term Training Program is intended to explore the knowledge and techniques in following areas of Structural Design

- Steel Structures
- RCC Structures
- Pre-stress Structures
- Structural Software
- Site Visit

Objectives

- To Design Steel Structures by LSM
- To Design of RCC Structures
- To learn Fundamentals of Pre-stress and Design of pre-stressed girder
- To study application of Software
- To explore real time knowledge through site visit

Resource Persons



Dr. J.Ghosh.
IIT Bombay



Er. Prashant Patil

Director

Apex Consultant Pune



Prof. Sachin B Kadam WCOE Sangali



Dr. U. R. Awari AISSMS COE, Pune



Er. Kishor Jain
Kishor Jain & Associate
Pune

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Prof. H. S. Mandwe
Mo. 9028392860
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AICTE - ISTE Approved STTP

Last Date of Registration 30th November, 2017

Registration Fees: 1500/-

MECHANICAL ENGINEERING WE A STATE OF THE ST

"FLUID MECHANICS"

December 11th to 15th, 2017

About Department:

The department of mechanical engineering was established in the year 2007. The department offers Graduate, Post graduate and doctoral degree programs. The Department has highly experienced and dedicated faculties. The state of art faculties, modern workshops and well developed laboratories; to equipped students to cope up with the fast changing industry requirements. The department strives for the holistic development of students by arranging industrial visits to reputed industries and research organization, invited talks by imminent personalities and technocrats, organizing national and International conferences, seminars on recent developments. Being aware of social responsibilities, we inculcate the entrepreneurship development activities and motivate students for rural technological development. The department has Mechanical Students Student Association (MESA) which provides the platform to showcase their innovative talents and skills.

About STTP

The main purpose of the STTP is to train the participants in the concept of Fluid Mechanics such as statics & dynamics of fluid. It covers the behavior and flow analysis of various kinds of fluids. It also aims to develop analytical solutions to variety of problems, understand the governing non-dimensional parameters, apply concepts of mass, momentum and energy conservation to flows and grasp the basic ideas of fluid mechanics.

This STTP brings you an opportunity to pursue academic excellence through interactive sessions, where eminent hardcore teachers from IIT's/NIT's and research scientist will explain various topics of Fluid Mechanics syllabus by giving us a better idea and what we should focus on syllabus contents wise so as to make our lecture more effective and interactive with industrial exposure.

Contents of STTP

Short Term Training Program is intended to explore the knowledge and techniques in following areas :

- Basic two phase flow and flow regimes
- Experimental techniques of two phase flow
- Numerical prediction of interface by using volume of fluid method
- Lattice Boltzmann method and its implication in two phase
- Cavitation phenomenon in hydro-machines
- Use of MATLAB in analysis of complex flow problems

Objectives

The objective is to bring renowned scholars and participants on a common platform to share & use their knowledge & expertise on the Advances in Fluid Mechanics in research program of Engineering and Technology.

- To understand of various properties of fluids
- To learn fluid statics and dynamics
- To understand of Boundary layer, Drag, and Lift
- To understand of Bernoulli's equation
- To Know of various applications of Bernoulli's equation

Resource Persons



Dr. Arup Kumar Das



Dr. Santosh K. Sahu



Dr. Neeraj Agrawal



Dr. Dipankar Narayan Basu



Mr. Ashok Chavan
Ret. Additional Director CWPRS

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AICTE - ISTE Approved STTP

Last Date of Registration 11th December, 2017

Registration Fees: 1500/-

ELECTRICAL ENGINEERING



"NETWORK ANALYSIS AND SYNTHESIS"

December 05th to 09th, 2017

About Department:

Department of Electrical Engineering was established in year 2008. The Department of Electrical Engineering offers a vibrant environment for under graduate and post graduate in Power System with intake 24. The Department has excellent research infrastructure and laboratories having state of art equipments and software's like MATLAB, Simulink. The Department offers consultancy in the field of Energy Conservation and Green Audits, Substation Earthing. The goal of Department of Electrical Engineering is to provide students a balance of intellectuals and practical experience that enables them to serve a variety of societal & industrial needs.

About STTP:

Network Analysis and Synthesis is one of the important course in electrical engineering. It has many applications in electrical engineering field like Load flow analysis, Transmission line performance, Electrical machines and so on. This STTP will enhanced analytical qualities of participant to solve vast and complex network.

Contents of STTP

Short Term Training Program is designed to enhance the basic concepts of electrical network and it will be clearly understood by the participants from the following topics.

- Basics of Network
- Network Theorems (with and without controlled sources)
- Analysis of Transient response in circuits by Classical method and Laplace transforms approach
- Two Port Network
- Network functions
- Hands on training on MATLAB software for two days

Objectives

To develop strong foundation for Electrical Networks among the participants and they will be able to apply the fundamental concepts in Electrical networks by interacting with leading academicians, scholars and industry persons of respective field.

- To bring together academicians, experts, researchers and industry persons from respective field common purpose
- To study the fundamental concepts related to Network Analysis and Synthesis
- To develop analytical qualities in Electrical circuits by application of various theorems
- To understand the behaviour of circuits by analyzing the transient response using classical methods and Laplace Transform approach
- To apply knowledge of Network theory for analysis of Power system, Control system, EHV AC Transmission, 2-port networks and design of other circuits like filters etc
- To discuss the various methods of network analysis by hands on training on Matlab

Resource Persons



Dr. Y. V. Hote (IIT, Roorkee)



Dr. V.S. Bandal (Govt. Polytechnic, Karad)



Dr. Archana Thosar (GCE, Aurangabad)



Dr. D.B. Talange (COEP, Pune)



Prof. V.B. Waghmare (GCE, Karad)



Dr. H. R. Jariwala (SVNIT, Surat)



Dr. Rahee Walambe (SITSIU, Pune)



Mr. Hrishikesh Mehta (Kuber Technologies, Pune)

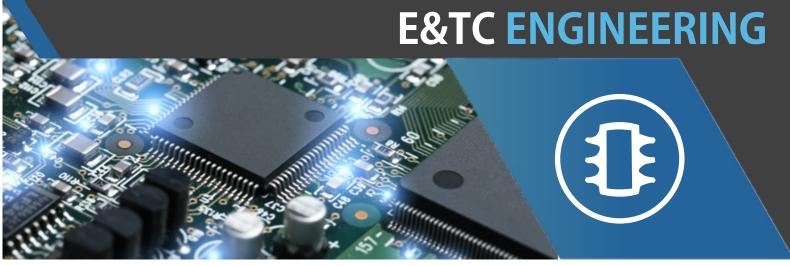
Course Coordinators

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AICTE - ISTE Approved STTP

Last Date of Registration 02nd December, 2017

Registration Fees: 1500/-



"ANALOG, DIGITAL COMMUNICATION AND WIRELESS NETWORK"

December 12th to 16th, 2017

About Department:

Our vision is to provide quality technical education to meet ever changing and demanding needs of the electronics and telecommunication industries along with other interdisciplinary fields and mission is to provide educational environments in which students are developed to face the global challenges. The department has established, fully fledged and industrial standard PCB design developed laboratory. The department has well equipped laboratories and has well qualified and dynamic team of teaching faculty members.

About STTP:

The STTP will focus on ideas, thoughts that will elicit the technical challenges and recent research trends such as Analog, Digital Communication and Wireless Networks also provide hands on various communication systems. The STTP brings together leading academic scientists, researchers and scholars across different domains. This STTP will certainly ignite the minds of the researchers for many research opportunities. The STTP thus guarantees a multi domain identical spirit in which experts will be able to present and motivate the participants to take up research challenges.

Contents of STTP

- Characterization of Communication Signals & Systems, Random processes
- Introduction of Analog communication, behavior in presence of noise
- Introduction of Digital communication, behavior in presence of noise
- Information Theory and Coding Techniques
- Introduction to wireless network, LTE
- WiMAX, VOIP, Volte
- Hands on training and Industrial visit (BSNL Pune)

Objectives

- To provide new insights and knowledge about the topic through close interactions/ discussions with the senior Faculty Members/Scientists and Experts of the respective field
- To study the fundamental concepts related to Analog & Digital Communication
- To discuss the problem solving abilities using mathematical analysis
- To discuss the concepts of Characterization of Communication Signals & Systems
- To discuss the concepts of analyzing the performance of communication systems
- To discuss the concept of random signals & noise
- To study Information Theory and Coding Techniques
- To study the evolving wireless technologies and standards

Resource Persons



Dr. Jayanta Mukherjee



Dr. Abhay Gandhi VNIT, Nagpur



Dr.B.S.Chaudhari



Dr.G.R.Patil AIT, Pune



Mr. Mukund Bhopale



Mr. Anirudha Kulkarni
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AICTE - ISTE Approved STTP

Last Date of Registration 10th December, 2017

Registration Fees: 1500/-

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Hon'ble Shri Jayesh S. Katkar Executive Director Zeal Education Society, Pune

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Dr. Sanjay A. Deokar Campus Director , ZES, Narhe, Pune.



Dr. Ajit M. Kate Principal, ZCOER, Pune

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Dr. Mahadev G. Unde HOD **Electrical Engineering**



Dr. Prasad S. Halgaonkar HOD (Shift I) Computer Engineering



Dr. Swapnaja A. Ubale, HOD (Shift II) Computer Engineering



Dr. Sunil G Dambhare HOD (Shift I) **Mechanical Engineering**



Dr. Amol B. Ubale HOD (Shift II) Mechanical Engineering



Prof. Sandip U. Kadam. HOD **Information Technology**



Dr. Pralhad P. Walvekar HOD **Civil Engineering**

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Dr. Swapnaja A. Ubale, HOD (Shift II)

Department of Information Technology

Prof. Sandip U. Kadam. HOD

Department of Electrical Engineering

Dr. Mahadev G. Unde HOD

Department of Mechanical Engineering

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Department of Civil Engineering

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shital.bachpalle@zealeducation.com

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E-mail: contact@zealeducation.com



This information given in catalogue is indicative and is subject to change for betterment of the program. Student should refer to prospectus or visit website for further details.

How to reach Zeal Education Society?

24.2 Kms. From Airport 13.7 Kms. From Pune Station 5.1 Kms From Katraj Bus Stand



ZEAL EDUCATION SOCIETY'S ZEAL COLLEGE OF ENGINEERING & RESEARCH DEPARTMENT OF INFORMATION TECHNOLOGY

Sr.No. 39, Narhe, Pune-41. Phone no. 020-67206127 Website:www.zcoer.in

"SYSTEM PROGRAMMING AND ADVANCEMENT IN COMPILER CONSTRUCTION"

One week National level Short Term Training Program on "SYSTEM PROGRAMMING AND ADVANCEMENT IN COMPILER CONSTRUCTION" was organized by Department of Information Technology of Zeal college of Engineering and research during 11th to 16th Dec 2017. Total 31 participants from various engineering institutes and industries across Maharashtra state had participated in this workshop.

System programming is the activity of programming computer system software. The primary distinguishing characteristic of systems programming when compared to application programming is that application programming aims to produce software which provides services to the user directly (e.g. word processor), whereas systems programming aims to produce software and software platforms which provide services to other software, are performance constrained, or both (e.g. operating systems, computational science applications, game engines and video games, industrial automation, and software as a service applications).

The STTP is intended to explore concept and advancement in compiler construction by renowned academicians invited from IIT, NIT, State Universities etc.Resource person from industry will help faculty member to enhance their practical skill in system level programming thorough hands on seminars.



Objectives:

- > To determine Basic syntax and semantics of Compiler Construction and Design.
- > To explore the concepts of Computer Organization and architecture, Processor Architecture and Interfacing and Theory of Computation: DFA, NFA, Regular expressions, Grammars.
- > To provide new insights and knowledge about the topic through close interactions/discussions with the senior Faculty Members/Scientists and Experts of the respective field.
- > To study and understand different system software like Assembler, Macro-processor and Loaders / Linkers.
- > To understand semantic analysis and storage allocation in compilation process.
- > To understand how to apply code optimization in the compilation process to use YACC tool for generation of syntax analyzer and to use tool LEX for generation of Lexical Analyzer.
- > To design and implement assemblers and macro processors.
- > Formulate problems in design and develop useful system software.

Content of STTP:

- Introduction to Systems Programming and Assemblers.
- > Macro processors, Loaders and Linkers.
- > Introduction to Compilers.
- > Parsers.
- > Semantic Analysis and Storage Allocation.
- > Code Generation and Optimization



Various experts from industries and academic institutes had contributed to this workshop by their able guidance. Following topics get covered in this workshop.

- 1. Introduction to System Programming & Assembler by **Prof. V.V. Kulkarni**, MIT, Kothrud, Pune.
- 2. Macro processors, Loaders and Linkers by Prof Kirti S. Korabu.
- 3. Compiers &b Parsers by Dr. Pratyay Kulla Assistant Professor, NIT Sikkim.
- 4. Implementing Lexical Analyzer & Yacc Programming by Dr.Mrs. M.A Jawale
- Semantic Analysis and Storage Allocation by Dr. O.G. Kakde VNIT Nagpur, Former Director VJTI Mumbai.
- 6. Code Generation and Optimization.by **Dr. O.G. Kakde** VNIT Nagpur, Former Director VJTI Mumbai.
- 7. Hands on sessions for implementing Parser by Mr. M.A. Pavaskar, Senior Software Engineer, GS Lab India Pune.
- 8. DFA, NDFA and Turing Machine by Dr. J.V Aghav, Professor COEP Pune.

This Short term training program was inaugurated by Dr.S. R. Sakhare, Head Computer & Engineering Department, Vishwkarma Institute of Information Technology, Pune., Dr.S.D. Shirbahadurkar, Dean Academics ZCOER Dr. Sanjay A. Deokar, Campus Director Zeal Education Society, Dr. A. M. Kate, Principal ZCOER, Prof. Sandip U. Kadam, Head of Information Technology Department, ZCOER



Day-wise Session Plan

Day & Date	Start Time	End Time	Session details	Name of Speaker
	10.00AM	12.00PM	Systems Programming And Assemblers.	
	12.00 PM	12.45 PM	LUNCH	Prof. V.V.
Day 1	12.45 PM	02.45 PM	Systems Programming And Assemblers.	Deshpande
11/12/2017	02.45 PM	03.00 PM	TEA BREAK	2.001/2
	03.00 PM	05.00 PM	Hands on sessions for implementing Pass - I of Two - pass assembler.	
	10.00AM	12.00PM	Macro processors, Loaders and Linkers.	
V I	12.00 PM	12.45 PM	LUNCH	
Day 2	12.45 PM	02.45 PM	Macro processors, Loaders and Linkers.	Prof. K. S. Korabu
12/12/2017	02.45 PM	03.00 PM	TEA BREAK	
	03.00 PM	05.00 PM	Hands on sessions for implementing Macro Processor.	
	10.00AM	12.00PM	Compilers	9
	12.00 PM	12.45 PM	LUNCH	Dr. Pratyay Kuila
	12.45 PM	02.30 PM	Parsers	
Day 3	02.30 PM	02.45 PM	TEA BREAK	
13/12/2017	02.45 PM	05.30 PM	Hands on sessions for implementing Lexical Analyzer. Hands on sessions for implementing calculator using LEX and YACC.	Dr. M.A Jawale
	10.00AM	12.00PM	Semantic Analysis and Storage Allocation.	
	12.00 PM	12.45 PM	LUNCH	
Day 4	12.45 PM	02.45 PM	Semantic Analysis and Storage Allocation.	Dr. O.G. Kakde
14/12/2017	02.45 PM	03.00 PM	TEA BREAK	
	03.00 PM	05.00 PM	Hands on sessions for implementing Recursive Descent Parser.	и
	10.00AM	12.00PM	Code Generation and Optimization.	
	12.00 PM	12.45 PM	LUNCH	
	12.45 PM	02.45 PM	Code Generation and Optimization.	
Day 5	02.45 PM	03.00 PM	TEA BREAK	Dr. O.G. Kakde
15/12/2017	03.00 PM	05.00 PM	Hands on sessions for implementing Intermediate code generation using LEX &YACC.	
	10.00AM	12.00PM	Hands on sessions for implementing Parser, Industry Apporach	
	12.00 PM	12.45 PM	LUNCH	Mr. M.A. Pavaskar
Day 6 16/12/2017	12.45 PM	02.45 PM	Hands on sessions for implementing Parser, Industry Apporach	
	02.45 PM	03.00 PM	IEA DILAN	Dr. J.V Aghav
	03.00 PM	05.00 PM	DFA, NDFA and Turing Machine Certificate Distribution	
	05.00 PM	05.30 PM	Certificate Distribution	

Day-1 [06 Hours]

Resource Person: Prof. V.V. Deshpande

Session: - Morning

Content:-

- Introduction to Systems Programming
- Assemblers

Session: - Evening

Content:-

• Hands on sessions for implementing Pass - I of Two - pass assembler

Day-2 [06 Hours]

Resource Person: Prof. K. S. Korabu

Session: - Morning

Content:-

- Macro processors
- Loaders and Linkers

Session: - Evening

Content:-

• Hands on sessions for implementing Macro Processor

Day-3 [06 Hours]

Resource Person: Dr. Pratyay Kuila

Session - Morning

Content:-

- Compilers
- Parsers

Resource Person: Dr. M.A Jawale

Session: - Evening

Content:-

- Hands on sessions for implementing Lexical Analyzer
- Hands on sessions for implementing calculator using LEX and YACC



Day-4 [06 Hours]

Resource Person: Dr. O.G. Kakde

Session - Morning/Evening

Content:-

- Semantic Analysis and Storage Allocation
- Hands on sessions for implementing Recursive Descent Parser

Day-5 [06 Hours]

Resource Person: Dr. O.G. Kakde

Session: - Morning/Evening

Content:-

- Code Generation and Optimization
- Hands on sessions for implementing Intermediate code generation using LEX &YACC.

Day-6 [06 Hours]

Resource Person: Mr. M.A. Pavaskar

Session: - Morning

Content:-

• Hands on sessions for implementing Parser, Industry Approach.

Resource Person: Dr. J.V Aghav

Session:- Evening

Content:-

- DFA
- NDFA
- Turing Machine



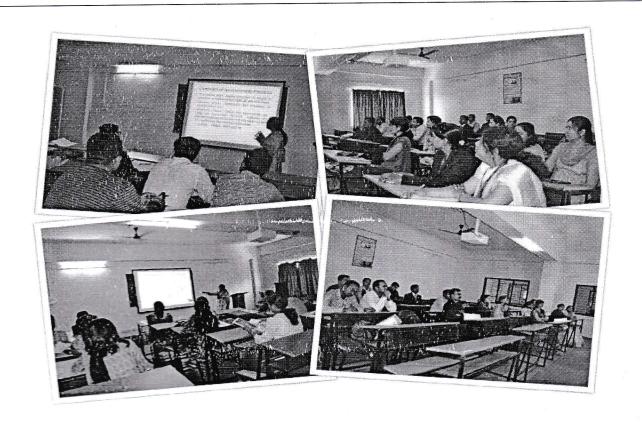
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Dept. of Information Tech. Engg. 7ES's Zeal College



ZEAL EDUCATION SOCIETY'S ZEAL COLLEGE OF ENGINEERING & RESEARCH DEPARTMENT OF INFORMATION TECHNOLOGY

STTP 2017

"System Programming and Advances in Compiler Construction"

16th December 2017

Attendance Sheet For Zeal IT Faculty

Sr.no	Name of Participant	Session 1	Session 2	Session 3
1	Minakshi R. Shinde	My		
2	J.D. Bachpalle	F	15	A.
3	J.D. Bachpalle		TA	
4	A. v. Patil	Dipust	Opali	Depals
5.	O.S. Joshi	SAN		
6	Rahul shole	Ples	PR	PB -
7	chadchankar A.S.	An.		An.
8.	Chadebartar. P.A.	Filly	- Streelly	Tally
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ZEAL EDUCATION SOCIETY'S ZEAL COLLEGE OF ENGINEERING & RESEARCH DEPARTMENT OF INFORMATION TECHNOLOGY

STTP 2017

"System Programming and Advances in Compiler Construction"

163 December 2017

Attendance Sheet

Sr.no	Name of Participant	Session 1	Session 2	Session 3
1	J. C. Pasalkar	AP.	AP.	A.
2.	p. A Birano	DABI 200°	DABPAN°	MARSHIN
3	But G. L. Attarde	Wt	W	W
4.	Prof. S.P. Mamadapyer		#	H
5.	Mitcon A-Pubil	Tycy	Ty.	tal
_6	Sanchefi D.G.	Marchen	Seauchel	Sauch
7.	Ms. Shailoya 8. Jadh	n 🔊	3	(3)
8	Megha Patil	mater	Matin	mktr
g.	Usmila Barkon	0.V.B2	U.V.P62	y.V.Poz_
10	Drg. Vinaya D. Kulturer	u Ol		OD.
1).	Ms. Proja Deshmull	ber.	Aes	Leeze.
12.	Amerita S. Dhole	July,	phle.	the
13	Sneha. Holisey	MPIRA	SHPIREY	Militer
14.	ginch no Chaple	GY	G	Grand .
15.	Ashwin Bhandekan	AB	A	ABL
16.	Swati-V. Jadhar	S. Jadua ?	S. saduor.	5. Jaduar
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