

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

INDEX

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during A Y 2017-2018

Dates (from-to) (DD-MM-YYYY)	Title of the FDP / professional development / administrative training program	No. of participants
04.12.2017 to 08.12.2017	STTP on Research trends Design and Analysis of Algorithms with R-Programming	30
6.06.2017 to 10.06 2017	Refresher Program "Discrete Mathematics and mathematical model	1
28.11.2017 20.12 .2017	Training Program(FDP) in Teaching Learning Centre, by IIT Mumbai	1
12.12.2017 to 12.12.2017	FDP on "System Programming and Operating System Laboratory", SITS,Pune	1
13.12.2017 to 15 .12.2017	FDP on Web Technology	2
18 .12. 2017 to 23.12.2017	FDP on Embedded Systems and IOT	1
27.1.2017 to 28.1.2017	2 Days FDP on "Emerging Research Trends in Computing, Communication and Storage" ZCOER, Pune	2
19.1.2018 to 20.1.2018	International seminar on"Intelligent Computing for Future Internet", Govt, COE,Karad	5
30.01.2018 to 30.01.2018	Participated in BE Computer Engineering Syllabus revision, APCOE, PUNE	2
5.2.2018 to 6.2.2018	2 Days National Level Workshop Cum Championship on "IOT Using Arduino" ZCOER,Pune	1
09.02.2018 to 10.02.2018	Workshop in Future of Data	- 1
23.2.2018 to 24.2.2018	2 DaysState Level Workshop on "Machine Learning & Data Science"	1
21.4.2018 to 21.4.2018	Participated in NPTEL Workshop, IIT Madras	1
22.6.2018 to 23.6.2018	2 Days FDP on Data Analytics, MMCOE, Pune	1

Head of the Department



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





STTP 2017

www.zealeducation.com/workshops



The main purpose of the STTP is to train the participants in the concept of subject, its objectives and expected outcomes. Considering the vision, mission of the institute and requirements of student, we have designed a faculty-responsive STTP which will lead to positive transformation in teaching learning process. In educational institutes, everyone is aware about the gradual increase in classroom absenteeism of students has become the matter of concern. Students are reluctant to attend classes because Lectures content delivered by faculties are available in textbook or on internet in the form of videos/PPTs/MOOC, being one of the reasons. In order to address this issue, this STTP brings you an opportunity to pursue academic excellence during interactive sessions where eminent hardcore teachers will explain various topics of SPPU syllabus by giving us a better idea and what we should focus on syllabus wise so as to make your lecture more effective and interactive.

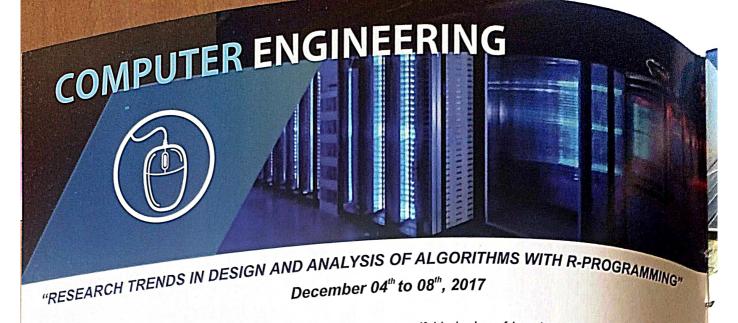


Zeal Education Society (ZES) is established in year 1996 under the able guidance of Hon. Shri S. M. Katkar to noble cause of education. During last few years, ZES has proved for being a well known organization in the field of education. Within the time span of 20 years, ZES has established Dnyanganga 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, Zeal Institute of Business Administration, Computer Application & Research, Zeal Institute of Management of 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 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.



About Department:

Department of Computer Engineering is like prism reflecting the manifold shades of learning and co-curricular activities and quality education with high standard to achieve academic excellent the words the goal of providing innovative and well equipped laboratories. Thus we are academic excellent. About Department of Computer Engineering is like prism to be a confident that our activities and determined towards the goal of providing innovative and quality education with high standard to achieve academic excellence. The determined towards the goal of providing innovative and well equipped laboratories. Thus we are confident that our activities and determined towards the goal of the art infrastructure and well equipped laboratories. Thus we are confident that our activities and determined towards the goal of providing innovative and quality education with high standard to achieve academic excellence. The Department of determined towards the goal of providing innovative and well equipped laboratories. Thus we are confident that our students Department is facilitated with state of the art infrastructure and well equipped laboratories. Thus we are confident that our students Department is facilitated with state of the art infrastructure and well equipped laboratories. Thus we are confident that our students Department is facilitated with state of the art infrastructure and to the organization they belong, but also to the country at a large. Department is facilitated with state of the archimeter than the organization they belong, but also to the country at a large, 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 t Design and Analysis of Algorithm is a systematic way because the fundamental concepts like Divide & Conquer, Greedy mathematics and computer science. This STTP is intended to elaborate the fundamental concepts like Divide & Conquer, Greedy mathematics and computer science. This STTP is intended to elaborate the fundamental concepts like Divide & Conquer, Greedy mathematics and computer science. This STTP is intended to elaborate the fundamental concepts like Divide & Conquer, Greedy mathematics and computer science. This STTP is intended to elaborate the fundamental concepts like Divide & Conquer, Greedy mathematics and computer science. mathematics and computer science. This STT is linked to the science and intractable problems. This STTP is Algorithms, Dynamic Programming, Backtracking, Branch & Bound along with the tractable and intractable problems. This STTP is Algorithms, Dynamic Programming, Backtracking, Branch & Bound along with the tractable and intractable problems. This STTP is a locality of the science of the scie Algorithms, Dynamic Frogramming, 2 and intraction and Machine Learning and Machine Learning 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

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



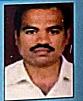
Dr. P. J. Kulkarni Deputy Director, WCE, Sangli



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



SPPU, Pune



Dr. A. C. Adamuthe





Prof. Abhijit A. M.



Prof. S. S. Shelke PICT, Pune



Course Coordinators

Prof. Deepali Lokare deepali.lokare@zealeducation.com 9763722185

Prof. Balaji A. Chaugule balaji.chaugule@zealeducation.com 9552209907

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



Founder Zeal Education Society , Pune



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



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



Dr. Ajit M. Kate Principal, ZCOER, Pune

ADVISORY COMMITTEE



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



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



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

Mode of payment:

Online: You can make online payment using NEFT / IMPS Account No.:053011100003398

IFSC code: ABHY0065110, MICR code: 411065013

Bank: Abhydaya Co-operative, Bank Ltd. Sinhgad Road, Pune.

Participant should mail transaction receipt of Online

payment to Co-ordinator

Demand Draft: Demand Draft can be drawn in Favour of "Zeal College of Engineering & Research" payable at Pune.

For paid Accommodation contact to concerned co-ordinators

CONTACT

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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



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

One week National level Short Term Training Program on "RESEARCH TRENDS IN DESIGN AND ANALYSIS OF ALGORITHMS WITH R-PROGRAMMING" was organized by Department of Computer Engineering of Zeal college of Engineering and research during 4th to 8th Dec 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 Design of algorithms 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.

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

Objectives:

- > To study the fundamental concept of Design and analysis of algorithm.
- > To discuss problem salving abilities using mathematical theories.
- > To discuss concept of computer algorithms to find the optimal solution.
- > To discuss concept of analyzing the performance of algorithms.
- > To discuss concept of P & NP problems.
- > To study the implementation of innovative and effective teaching learning

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methodologies for imparting the course knowledge amongst the students /learners of the subject.

- > To formulate problems precisely, salve the problems, apply formal proofs techniques and explain the reasoning clearly.
- > To discuss applications of DAA, R programming Machine Learning.
- > 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.

1400

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

- 1. DAA basics and advance. by Dr . P. J. Kulkarni, Deputy Director, WCE, Sangli,.
- 2. Optimization problems and Heuristic Algorithms by Dr.A.C. Admuthe.
- 3. Problem salving by using different methods by **Dr. Parikshit N. Mahalle** BOS, Chairman, IT, SPPU, Pune.
- 4. Genetic algorithms, Evalutionary algorithms and ANN Prof. Abhijit A. M.
- 5. Complexity theory by Sunil Shelke PICT Pune.
- 6. About R programing by Prof. S. P. Pundlik, , Pune.
- 7. Supervised learning by Dr. Prachi Joshi.

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This Short term training program was inaugurated by Dr. P. J. Kulkarni, Deputy Director, WCE, Sangli, Dr. Parikshit N. Mahalle BOS, Chairman, IT, SPPU, Pune, Dr. Prachi Joshi, SPPU, Pune, Dr. Sanjay A. Deokar, Campus Director Zeal Education Society, Dr. A.M.Kate principal Zeal college of Engineering and Research, Dr. Prasad S. Halgaonkar and Dr. S.A. Ubale Head of Computer Engineering Department, ZCOER Shift-I and Shift-II respectively.

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Day wise Session plan

Sr.	Day	Session	Content	Resource Person
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1	Day 1 4/12/2017	Morning	DAA basics and advance.	Dr. P.J . Kulkarni
		Evening	Optimization problems and Heuristic Algorithms, Algorithms to find Optimal solution, Applications of DAA, P and NP Problem. Effective Outcome based assessment methodology for Laboratory course in Engineering Education	Dr.A.C. Admuthe
2	Day 2 5/12/2017	Morning	Problem Solving using Models (Divide and Conquer, Greedy, Dynamic Programming, Branch and Bound), Dynamic Programming, Branch and Bound	Dr. P.N Mahalle
		Evening	Genetic Algorithms Evolutionary algorithms and ANN. Practical Approach of DAA	Prof. Abhijit A.M
3	Day 3 6/12/2017	Morning	Complexity theory: Operators, Growth rate, Bounds (upper/lower), Deterministic Polynomial and Non-Polynomial Problems	Prof. Sunil Shelke
		Evening	P, NP, NP-C and NP-H problems with Examples.	Prof. Sunil Shelke
4 .	Day4 7/12/2017	Morning	About R programming	Prof. S.P. Pundalik
	10 410	Evening	Hands on R programming	Prof. S.P. Pundalik
5	Day 5 8/12/2017	Morning	Hands on R programming	Prof. S.P. Pundalik
	₫	Evening	Basic concepts, Supervised learning setup. LMS, Generative learning algorithms. Gaussian discriminant analysis. Naive Bayes.	Dr. Parchi Joshi

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Day-1 [06 Hours]

Resource Person: Dr. P. J. Kulkarni

Session: - Morning

Content:-

- Algorithms
- Problem Solving,
- Introduction to Algorithms,
- Complexity of algorithms
- Space complexity,
- Time complexity.
- Asymptotic notation- Big-O, Theta and Omega,
- Standard measures of efficiency

Day-1 [06 Hours]

Resource Person: Dr. A.C. Admuthe

Session:- Evening

Content:-

- Amortized analysis of algorithm
- Relationship among data, data structure, and algorithm, From Problem to Program.
- Algorithmic Strategies- Introduction to algorithm design strategies
- Algorithm design strategies- Divide and Conquer, and Greedy strategy
- Recurrence relation Recurrence Relation, Linear Recurrence Relations

Day-2 [05 Hours]

Resource Person: Dr. P. N. Mahalle

Session: - Morning

Problem Soving using Model (Divide and Conquer, Greedy, Dynamic Programming, Branch and Bound)

Content:-

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- Divide and Conquer Technique
- Greedy Algorithm
- How to create a Greedy Algorithm?
- Dynamic Programming
- Band and Bound
- How to Implement Algorithm

Day-2 [05 Hours]

Resource Person: Prof. Abhijit A. M.

Session - Evening

Content:-

Recursion, Loops, Functions and Proofs

- Introduction to Recursion
- How to write code?
- Problem Solving Using Recursion
- Hands on for problem solving
- Problems on Loops, Functions
- Given Proofs for every solution

Day-3 [06 Hours]

Resource Person: Prof. S. S. Shelke

Session – Morning/Evening

Content:-

Resource Person:

Session 2- Asymptotic Analysis in Algorithms

- Introduction to Algorithms
- History of algorithms
- Complexity in problem solving
- NP Hard, NP Complete
- Examples

Day-4 [06 Hours]

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Resource Person: Prof. S.P. Pundalik Session: - Morning/Evening

Content:-

1) Origin of Computational Taught

2) Computability, Electronic Computer, Computational Complexity 3) Efficient Computation by abstract computational model compared to efficient computation in

* Characteristics of Algorithm:

Computation:- It is one step to solve computational problem.

Examples: i) Numerical Computation

- ii) Word Processing
- iii) Physical Phenomena- like weather evolution, evolution of stars.
- * Asymptotic Analysis in Algorithm
- -What is Asymptotic Analysis?
- -Notations in Asymptotic Analysis (Big oh, omega, theta etc)
- -Examples, Trichotomy law followed?
- -Why Asymptotic analysis of algorithm?
- -Input instance set and time complexity depends on instance structure
- * Finding limitation of our computer
- -Turing Machine

6

- -Von Neumann architecture and Turing Machine
- -Turing Completeness
- -Electronic Computers and turing completeness.
- -Computability and complexity
- -Algorithm performance in terms of TM operations.
- * Formal definition of a computational problem.
- -Types of problems:- Decision , search, Counting, Optimization, Function Problem.

Day-5 [06 Hours]

Resource Person: Prof. S.P. Pundalik

Session: - Morning

Content:-

* Why Decision Problem

* Moving from other problem types to decision version pept. of Comp. Engineering

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Examples: Primarily Testing, Graphs Problem

- *Difference/ similarity between language, Problem, algorithm, Turing Machine.
- * Efficient Computation
- -Drawing boundary between efficient and non-efficient computation.
- -polynomial time vs super polynomial time functions.
- -Coham-Edmonds thesis of characterizing. efficiency practically.

Determinism vs Non-Determinism

- *Formal Definitions:-Time complexity
- -Time complexity of a turing machine on an instance i of problem x

Day-5 [06 Hours]

Resource Person: Dr. Parchi Joshi

Session: - Evening

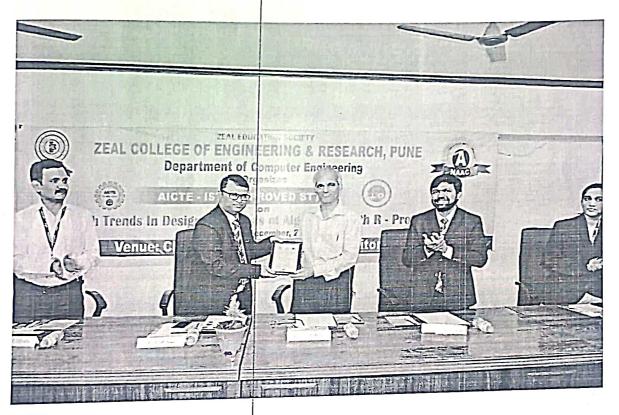
Content:-

- Introduction to R programming
- What is in R code?
- What is a factor in R?
- Basic Syntax
- Data types
- R Variables
- R operators
- R decision making
- Loops
- **Functions**
- **R-Strings**
- R- Vectors
- R-List
- R data Frames
- R Packages
- R-CSV files
- **R-Excel Files**
 - R-JSON files

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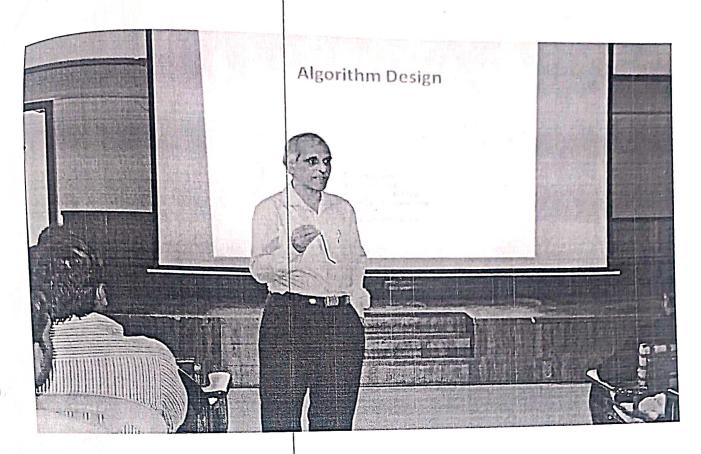
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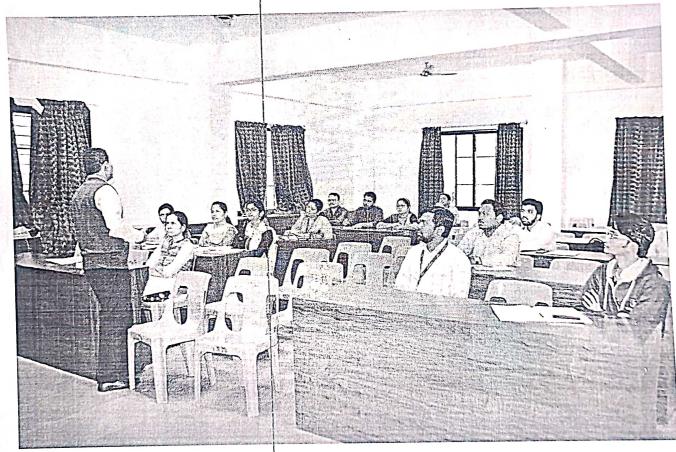


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Department of Computer Engineering

STTP 2017 "Research Trends in Design and Analysis of Algorithms with

R-Programming"

(4th to 8th December 2017)

Attendance sheet

4th December 2017

	Sr. No.		Institute (Name and University)	Session 1	Session 2	Session 3
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	5-	Pradaya Shinde	Zeel polyteonic	P. H. suinde	P.N.shinde	P. W. Shawe





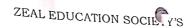
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SCHEDULE OF SHORT TERM TRAINING PROGRAM

ON

"Research Trends in Design and Analysis of Algorithms with R-Programming" (4th to 8th December 2017)

Attendence Sheet

5th Dec.2017

		5" Dec.2017		
Sr.No.	Name of Participant	Name of Institute	Session 1	Session 2
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SCHEDULE OF SHORT TERM TRAINING PROGRAM

"Research Trends in Design and Analysis of Algorithms with R-Programming"
(4th to 8th December 2017)

0.31		5 th Dec.2017		
Sr.No.	Name of Participant	Name of Institute	Session1	Session 2
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ZEAL COLLEGE OF ENGINEERING & RESEARCH DEPARTMENT OF COMPUTER ENGINEERING

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

SCHEDULE OF SHORT TERM TRAINING PROGRAM

ON

"Research Trends in Design and Analysis of Algorithms with R-Programming" (4th to 8th December 2017)

		6 th Dec 2017		
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SCHEDULE OF SHORT TERM TRAINING PROGRAM

"Research Trends in Design and Analysis of Algorithms with R-Programming" (4th to 8th December 2017)

Sr.No. Name of Participant 25 More R.P. 26 Mr. Lokhande R.N. 27 Mr. Chaugule 8.A 28 Mt. X B. Kathok 29 Ms. P.s. Naugher 30 Nagh M.V. 31 Gaikwad RB 32 Pawar Att. 33 Pangskar St.	Name of Institute ZCOER ZCOER ZCOER	Session 1 Session 2 Proportion of Halande Black Black
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Sr.NO. 39, Narhe, Pune-41. phone no. 020-67206127 Website:www.zcoer.in

SCHEDULE OF SHORT TERM TRAINING PROGRAM

ON

"Research Trends in Design and Analysis of Algorithms with R-Programming"
(4th to 8th December 2017)

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SCHEDULE OF SHORT TERM TRAINING PROGRAM

"Research Trends in Design and Analysis of Algorithms with R-Programming" (4th to 8th December 2017)

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SCHEDULE OF SHORT TERM TRAINING PROGRAM

"Research Trends in Design and Analysis of Algorithms with R-Programming"
(4th to 8th December 2017)

Attendance Sheet

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

SCHEDULE OF SHORT TERM TRAINING PROGRAM

ON

"Research Trends in Design and Analysis of Algorithms with R-Programming"

(4th to 8th December 2017)

Attendance Sheet

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8 th Dec 2017							
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AICTE CETTÍTÍ	3114				
This is to certify that Mr./Ms Rahul N. Lo.					
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Advisor, AICTE Executive Secretary, ISTE	Principal Program Coordinator				

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Certificate



This is to certify that Mr./Ms. Pranav O. Chitnis				
has successfully completed AICTE-ISTE appr Research Trends in Design and Analysis of	aved Induction/Refresher Programme Algorithms with R-Programming held during			
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Advisor, AICTE	Executive Secretary, ISTE	Principal Progra	an Coordinator

Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching Ministry of Human Resource Development, Government of India

Certificate of Participation

This is to certify that Ms. Tejaswini Uttam Mane

from Zes's Zeal College Of Engineering and Research, Pune

successfully completed the one month residential Induction Training Programme

conducted by Teaching Learning Centre, Indian Institute of Technology Bombay,

from 28 November 2017 to 20 December 2017.



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Son I had

Prof. Kannan M. Moudgalya Project Coordinator Teaching Learning Centre PMMMNMTT, IIT Bombay



Prof. Preeti Rao Professor-in-Charge Continuing Education (CE) Quality Improvement Programmes (QIP), IIT Bombay





ENGINEERING ,VADGAON(Bk), Pune -411041 SMT. KASHIBAI NAVALE COLLEGE OF Sinhgad Technical Education Society's

Department of Computer Engineering



CERTIFICATE

THIS IS TO CERTIFY THAT PROF DEFPALE LOKARE

ZEAL COLLEGE of Engg Pune

HAS SUCCESSFULLY PARTICIPATED IN ONE DAY FACULTY

THAT THE PROCESSED ON "STATEST PROGRAMMING & OPERATING STEEL LABORATORY " ORGANIZED

IN ASSOCIATION WITH BOARD OF STUDIES, COMPUTER ENGG., SPPU, PUNE ON 12, DECEMBER 2017

failed.

Prof. S. Y. Kulkarni Prof. A. M. Wade

Coordinator

Coordinator

Coordinator, BOS Convener & Head Dr. Varsha Patil

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Computer Engg., SPPU



D. Y. Patil Institute of Engineering, Management and Department of Computer Engineering Research, Akurdi, Pune – 44



Three Days Faculty Development Program "Web Technology"

CERTIFICATE

This is to certify that Prof./Mr./Mrs./Ms. Ranjack. Tagtap......of. Zed. College. Pone...participated The program was organized by Dr. D. Y. Patil Institute of Engineering, Management and Research, Pune in association in three days Faculty Development Program on "Web Technology" held on 13th December to 15th December 2017. with Board of Studies (BoS), Computer Engineering, Savitribai Phule Pune University, Pune.

Mrs. Suvarna A. Patil

Coordinator

Post Prof. Prof. Prof. Prof. Pratiksha P. Shevatekar

Dr Manisha Bhende

Convener

Dr. Anupama V. Patil The sent

Principal



D. Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune - 44 Department of Computer Engineering



Three Days Faculty Development Program

"Web Technology"

CERTIFICATE

This is to certify that Prof/Mrs/Ms Tubbey Salim Model of ZCOE. Marke participated in three days Faculty Development Program on "Web Technology" held on 13th December to 15th December 2017. The program was organized by Dr. D. Y. Patil Institute of Engineering, Management and Research, Pune in association with Board of Studies (BoS), Computer Engineering, Savitribai Phule Pune University, Punc.

eshkumar R. Mustary

Mrs. Suvarna A. Patil

Coordinator

Prof. Pratiksha P. Shevatekar

Dr Manisha Bhende

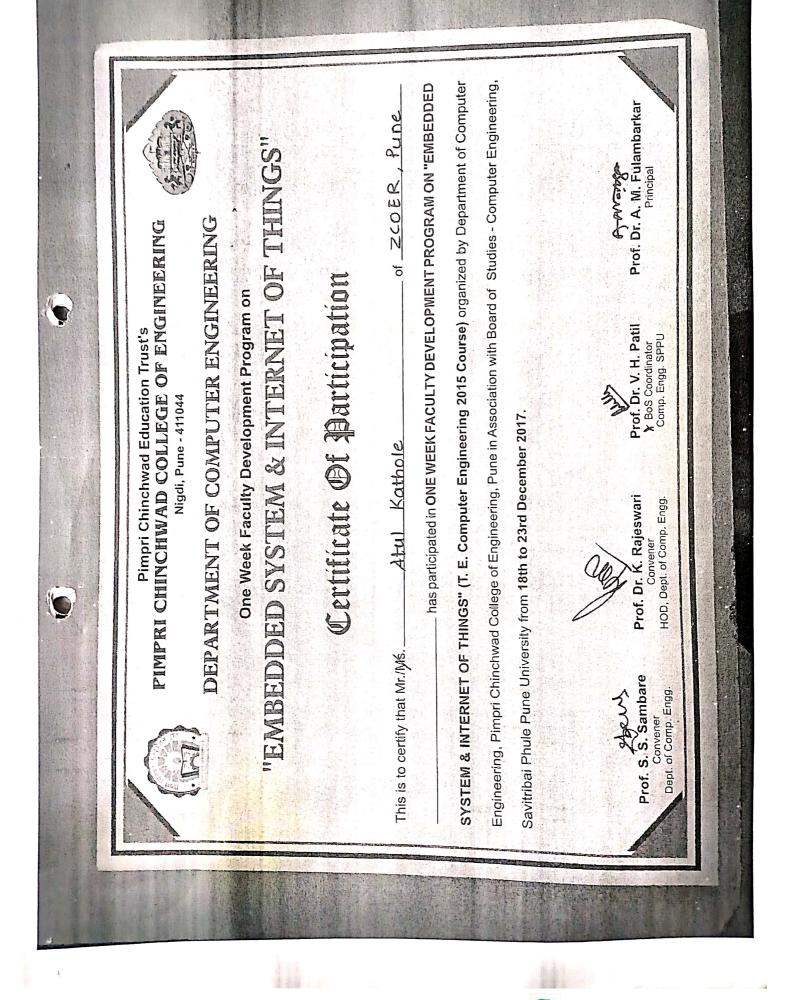
Convener

Dr. Anupama V. Patil

Principal

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Zeal Education Society's



ZEAL COLLEGE OF ENGINEERING & RESEARCH, PUNE

Department of Information Technology & Computer Engineering Two Days State Level Faculty Development Workshop

"Emerging Research Trends in Computing, Communication and Storage"

in Association with

SAVITRIBAI PHULE PUNE UNIVERSITY January 27th - 28th, 2017

CERTIFICATE

This is to certify that, Dr. /Mr. /Ms. /Mrs. \(\Lambda\) // AWGHARE PUSHPISALA S. has participated in Two Days State Level Faculty Development Workshop on "Emerging Research Trends in Computing, Communication and Storage" held at Zeal College of Engineering and Research, Pune 411041 during January 27th -28th, 2017.

Prof. S.U. Kadam Head

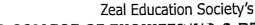
Information Technology

Prof. S:M. Sangve Head

Computer Engineering

Dr. A.M. Kate Principal

Dr. S.A. Deokar Campus Director



ZEAL COLLEGE OF ENGINEERING & RESEARCH, PUNE



Department of Information Technology & Computer Engineering Two Days State Level Faculty Development Workshop

"Emerging Research Trends in Computing, Communication and Storage"

in Association with

SAVITRIBAI PHULE PUNE UNIVERSITY January 27th - 28th, 2017

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This is to certify that, Dr. /Mr. /Ms. /Mrs. YUVRAJ. B. HEMBADE _ has participated in Two Days State Level Faculty Development Workshop on "Emerging Research Trends in Computing, Communication and Storage" held at Zeal College of Engineering and Research, Pune- 411041 during January 27th -28th, 2017.

Kadam

Information Technology

Prof. S.M. Sangve Head Computer Engineering

Dr. A.M. Kate Principal

Dr. S.A. Deokar **Campus Director**

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(An Autonomous Institute of Government of Maharashtra)

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Tiis is to certify that Oh. / Str. / Sts Kishor R. Pathak

Zeal College of Engg, Pune

has attended International Seminar on

"Intelligent Computing For Future Internet (ICFI-2018)"

Sponsored by
All India Council for Technical Education (AICTE)

Organised by

Department of Information Technology

Ouring 19th -20th January, 2018

Reybulber

Prof. Jr. R. B. Kulkarni Coordinator

Prof. Dr. الميكيات إلايكيات Read, IT

Prof. Dr. A.T. Pisc Principal

(An Autonomous Institute of Government of Maharashtra)

CERTIFICATE

This is to certify that Dr. / Mr. / Mrs Savita Ajay Kumbhare

ZEAL COLLEGE OF ENGG, NAHRE, PUNE

has attended International Seminar on

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All India Council for Technical Education (AICTE)

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Department of Information Technology

During 19th -20th January, 2018

Prof. Dr. R. B. Kulkarni Coordinator

Chief Coordinator & Head, IT Prof. Dr. S. J. Wagh



(An Autonomous Institute of Government of Maharaslitra)

CERTIFICATE

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Zeal College of Engg, Punc.

has attended International Seminar on

"Intelligent Computing For Future Internet (ICFI-2018)"

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All India Council for Technical Education (AICTE)

Organised by

Department of Information Technology

During 19th -20th January, 2018

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Prof. Df.R. B. Kulkarni

Prof. Dr. S. F. Wagh Chief Coordinator & Head, IT

Prof. Dr. A.T. Pisc Principal



(An Autonomous Institute of Government of Maharashtra)



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This is to certify that Dr. / Mr. / Mr. Atul Kathole

ZCOER

has attended International Seminar on

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During 19th -20th January, 2018

Dr. R. B. Kulkarni Coordinator

Chief Coordinator & Head, IT

Principal

(An Autonomous Institute of Government of Maharashtra)



CERTIFICATE

This is to certify that Dr. / Mr. / Ms Smit & S. Bachal

Zeal College of Engg and Rescorch,

has attended International Seminar on

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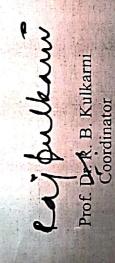
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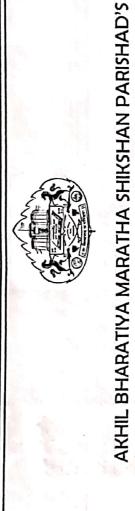
Department of Information Technology

During 19th -20th January, 2018



Prof. Dr. S. J. Wagh Chief Coordinator & Head, IT







CERTIFICATE

ANANTRAO PAWAR COLLEGE OF ENGINEERING & RESEARCH, PARVATI, PUNE

This is to certify that Professor Mr./Miss/Mrs.

Prasad Halgaonkar

has attended BE Computer Engineering Syllabus Revision Meet

organized by Board of Studies Computer Engineering, Savitribai Phule Pune University and

ABMSP'S Anantrao Pawar College of Engineering & Research on 30th January 2018.

Prof. M. A. Mulik (Head, Computer Department)

Prof. Dr. Yarsha H. Patil (Coordinator, BoS, Comp. Engg.)

Dr. S. B. Thakare (Principal APCOER)

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AKHIL BHARATIYA MARATHA SHIKSHAN PARISHAD'S

ANANTRAO PAWAR COLLEGE OF ENGINEERING & RESEARCH, PARVATI, PUNE

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This is to certify that Professor Mr./Miss/Mrs._

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has attended BE Computer Engineering Syllabus Revision Mect

ABMSP'S Anantrao Pawar College of Engineering & Research on 30" January 2018.

organized by Board of Studies Computer Engineering, Savitribai Phule Pune University and

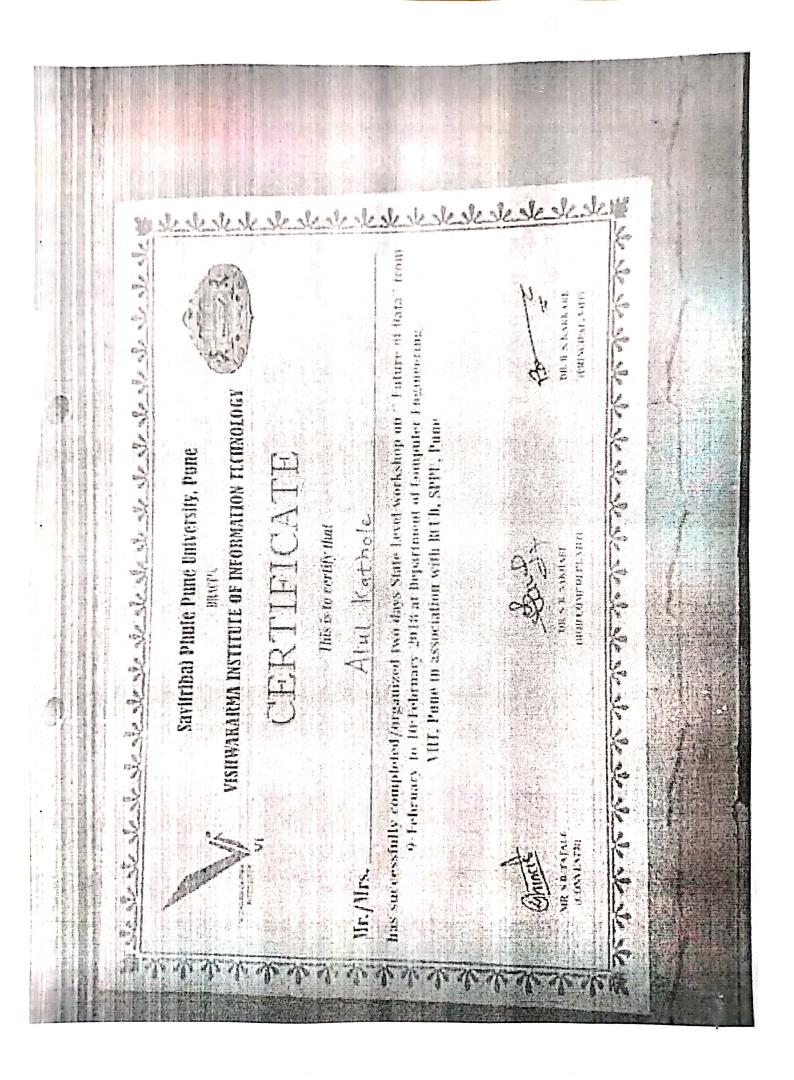
(Head, Computer of M. A. Mulik Department)

(Coordinator, BoS, Comp. Engg.) Prof. Dr. Varsha H. Patil

Dr. S. B. Thakare

(Principal APCOER)







Two Days State Level Workshop On



MACHINE LEARNING & DATA SCIENCE

Organized by

D. Y. PATIL INSTITUTE OF ENGINEERING AND TECHNOLOGY, AMBI, PUNE



Sertificate 🗨



This is to certify that Mr./Ms./Mrs. Prof. P. D. Kshirsagar has attended Two Days Sate Level Workshop on "MACHINE LEARNING & DATA SCIENCE" organized by Department of Computer Engineering & Information Techonology in association with Savitribai Phule Pune University, Pune on 23^{rd} & 24^{th} February 2018.

Co-Convener

Dr. L. V. Kamble Principal

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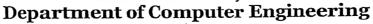


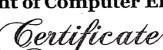


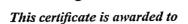
Marathwada Mitra Mandal's COLLEGE OF ENGINEERING

Karvenagar, Pune - 52

Accredited with 'A' Grade by NAAC







Mr./Ms. Prajakta S. Shinde	The state of the s
U _	
of <u>Zeal</u> , Pune.	participated in / organized
o Days Faculty Development Program on "Data And	ulytics" dated 22 rd - 23 rd June 2018, in associati

with Board of Studies (Computer Engineering), SPPU, Pune, organized by

Department of Computer Engineering, MMCOE, Pune.

Ms. Geetha Chillarge Ms. Ila Savant Co-Conveners

Prof. Dr. Sandeep Chaware Convener & HOD, Computer Dr. S. M. Deshpande Principal, MMCOE

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