



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

FOUNDER CHANCELLOR
Dr. Patangrao Kadam
M.A., LL. B., Ph. D.

Accredited by NAAC With 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Shivaji University, Kolhapur
Near Chitranagari, Kolhapur - 416013 (MS)
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PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

NAAC SSR CYCLE- 2



Criterion 3	Research, Innovations and Extension
Key Indicator 3.2	Innovation Ecosystem
3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years	

One Day Workshop on Problem Solving And Programming Skill



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

- **Organizing Department** : **Computer Science & Engineering**
- **Name of Activity** : **“ONE DAY WORKSHOP ON PROBLEM SOLVING AND PROGRAMMING SKILL”**
- **Names of Coordinator** : **Mr. A M Patravale**
- **Name of the Resource person** : **Dr. Amol C. Adamuthe**
- **Date of Activity** : **Friday 8th Mar, 2019**
- **Participants** : **All CSE department students**

- **Brief information about resource person:**

Dr. Amol C. Adamuthe has strong education professional with a **Ph.D. in Information Technology** from Mumbai University and **Master of Technology (M. Tech.) in Computer Engineering** from Dr. Babasaheb Ambedkar Technological University, Lonere - Raigad. Currently he is working as Head of Information Technology Department, Rajarambapu Institute of Technology (An Autonomous Institute affiliated to Shivaji University Kolhapur), Rajaramnagar, MS, India. He has worked as head of M. Tech program in CSE department for 5 years.

He has **13+ years of teaching experience**. He has worked as **NBA coordinator**, outcome based education coordinator and **R&D coordinator**. Total 21 students have completed PG (M. Tech CSE) under his guidance. He has received performance award from Rajarambapu Institute of Technology – 5 times from 2011-12.

He has received **Best Engineer Award** by Institution of Engineers (India) Kolhapur Local Chapter On the occasion of 51st Engineers day on 15th September 2018. He has filled **3 patents**.

He is **reviewer** for 12 reputed journals (IEEE, Elsevier, Springer, Inderscience) and 16 reputed conferences. He is Editorial board member of two international journals.

Research publications in reputed journals (count-13) and conferences (count-29). Best conference paper award- 04 national conference and 1 IEEE international conference.

- **Details of Activity:**

Discussion on following points done during the workshop

- A)** National Employability Report, Engineering Graduates – 2014 and 2016 only 18.33% of the engineers are employable. The 82 % engineering graduates are weak in programming and algorithm skills, soft and cognitive skills, domain skills, English

speaking and comprehension skills and analytical and quantitative skills. Recently National Association of Software & Services Companies (NASSCOM) and other private firms surveyed that only 25% graduates in India are employable.

B) Skills required

Table 1: Skills under Four Factors

Specific Skills	Core Skills	Personal Characteristics	Communication Skills
<ul style="list-style-type: none"> • Database knowledge • Spreadsheet knowledge • Word processing knowledge • Ability to adapt to changing technology • Technical skills • Mathematical skills 	<ul style="list-style-type: none"> • Self confidence • Critical thinking • Creative thinking • Interpersonal skills • Leadership skills • Experience with real world problems 	<ul style="list-style-type: none"> • Business ethics • Professionalism 	<ul style="list-style-type: none"> • Listening skills • Speaking skills • Written communication

C) Algorithm

- Definition
- Steps
- Space and time complexity
- Selection of appropriate data type/structure
- Multiple approaches to solve a problem

D) Divide and conquer problem solving technique

1. Working steps and programming logic:
2. Applications: Sorting, Binary search etc.
3. Not Applicable to
 - Knapsack problem
 - Travelling Sales Person problem

E) Greedy problem solving technique

1. Working steps and programming logic:
2. Applications: Fractional knapsack problem, Minimum cost spanning tree etc.
3. Not Applicable to
 - 0/1 knapsack problem
 - Shortest path problem
 - Travelling Sales Person problem
 - Queen Problem

F) NP problems and applications. Probabilistic problem solving methods.

G) Demonstration of Backtracking program for problem solving

H) Case study: Research paper of scheduling problem

I) C Programming standards

- **Outcome of Activity:**

The students learn different techniques for problem solving and programming. The techniques learnt by the student will be helpful for them during writing programs of any programming language. As per oral feedback received from the students, during the workshop some topics are covered which are very important and students did not know them.

- **Photos:**



Felicitation of the resource person
by Principal Dr. Vijay Ghorpade



Speech by **Dr. Vijay Ghorpade**
Principal, BVCOEK



The faculty and students attending the workshop



Interaction with the participants by the resource person

Mrs. S. M. Mulla
HOD CSE

Dr. Vijay R. Ghorpade
PRINCIPAL



BHARATI VIDYAPEETH
COLLEGE OF ENGINEERING, KOLHAPUR
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date – 6th Mar, 2019

To,
The Principal,
BVCOE, Kolhapur

Subject – Permission for arranging “one day workshop on problem solving and programming skill”


Respected Sir,

Our department is organizing “ONE DAY WORKSHOP ON PROBLEM SOLVING AND PROGRAMMING SKILL” on Friday 8th Mar, 2019 for students of SECSE and TECSE.

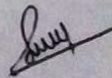
Dr. A. C. Admuthe (Head of IT Dept, RIT, Sakharale) will be the speaker for this workshop and will be delivering expert knowledge on the subject “problem solving and programming skill”. This workshop will definitely useful for students to improve skill required for problem solving and writing programs.

We request you to permit us for arranging this one day workshop.

Thank you very much for your kind co-operation and continuous support.


A M Patravale
Co-ordinator

*Dr. C. B. 20001 -
Sanctioned
Permitted
6/3*


/ S. M. Mulla
HEAD, CSE

Ref No - BN/COEK/808/2019-2020

Date - 06/03/2019

To,

Dr. Amol C. Adamuthe

Head of Department of Information Technology,
Rajarambapu Institute of Technology, Sakharale

Subject – Invitation for conducting one day workshop on “problem solving and programming skill” for SECSE and TE CSE Students

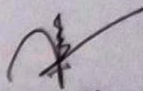
Dear Sir,

On behalf of Bharati Vidyapeeth's College of Engineering, I am very pleased to have the honor of inviting you to deliver expert lecture for one day workshop at our Institute for students of CSE department.

You would be delivering your expert knowledge on the topic “**PROBLEM SOLVING AND PROGRAMMING SKILL**” for the students SECSE and TECSE.

We have arranged this one day workshop on **Friday 8th Mar, 2019**.

I would be pleased if you be available as resource person for workshop.


Dr. Vijay Ghorpade
Principal

Received
ACAD



**BHARATI VIDYAPEETH
COLLEGE OF ENGINEERING, KOLHAPUR
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Date – 6th Mar, 2019

NOTICE

All the students of SECSE and TECSE are informed that, our department is organizing “ONE DAY WORKSHOP ON PROBLEM SOLVING AND PROGRAMMING SKILL” on Friday 8th Mar, 2019.

Dr. A. C. Admuthe (Head of IT Dept, RIT, Sakharale) will be the speaker for this workshop and will be delivering expert knowledge on the subject “problem solving and programming skill”. This workshop will definitely useful for students to improve the skill required for problem solving and writing programs.

The attendance of all the SECSE and TECSE students is compulsory for the free of cost workshop.

Location – Seminar Hall of CSE, Ground floor

A M Patravale
Co-ordinator

/ S. M. Mulla
HEAD, CSE

He **Dr. Amol C. Adamuthe**

Strong education professional with a Ph.D. in Information Technology from Mumbai University and Master of Technology (M. Tech.) in Computer Engineering from Dr. Babasaheb Ambedkar Technological University, Lonere - Raigad.

Currently he is working as Head of Department of Information Technology, Rajarambapu Institute of Technology (An Autonomous Institute affiliated to Shivaji University Kolhapur), Rajaramnagar, MS, India. He has worked as head of M. Tech program in CSE department for 5 years.

Highlights and Recognitions

1. **Doctor of Philosophy (Ph.D.)** in Technology (degree in Information Technology).
2. **13+ years of teaching experience** (UG + PG). 7 years of experience in **autonomous college. Approved PG teacher.**
3. Working as **Head of Information Technology department and BOS chairman** from Feb 2017. Worked as Head of M. Tech. CSE program from July 2012 to Jan 2017.
4. Worked as NBA coordinator, outcome based education coordinator and R&D coordinator.
5. **PG (M. Tech CSE)** – 21 students completed.
6. Received **performance award** from Rajarambapu Institute of Technology – **5 times from 2011-12.**
7. **PG evaluator** – Mumbai University, Solapur University, Walchand college of Engineering Sangli and Sardar Patel Institute of Technology Mumbai.
8. Member of **Departmental Advisory Board committee**, Computer Science and Engineering Department at Sharad Institute of Technology, College of Engineering, Yadrav, Ichalkaranji, Kolhapur.
9. **Best Engineer Award by Institution of Engineers (India) Kolhapur Local Chapter.** On the occasion of 51st Engineers day on 15th September 2018.
10. **3 patent** filed.
11. Received/sanctioned **funds for STTP and research proposals** from RGSTC, AICTE-ISTE, UNNAT Bharat and Shivaji University Kolhapur.
12. Research **publications** in reputed journals (count-13) and conferences (count-29). **Best conference paper award- 04 national conference and 1 IEEE international conference.**
13. **Editorial board member of two international journals.**
14. **Reviewer for 12 reputed journals** (IEEE, Elsevier, Springer, Inderscience) and 16 reputed conferences.
15. **Convener of 1st and 2nd National conference of algorithms and intelligent systems.**
16. **Session chair, member of advisory & technical committee of 18 reputed conferences.**
17. **Invited talks/keynote address** in FDP/STTP and conferences (count- 21).
18. Received best researcher award from Rajarambapu Institute of Technology for year 2017-18.
19. **Member of professional groups** – IE (India), ISTE, CSI etc.
20. **Organized FDP/STTPs and conferences** (count-14).
21. **Attended FDP/STTP** (count-24)
22. Excelled as **QEEE Coordinator** for RIT for period Jan-April 2017 from IIT Madras
23. **SPOC for Smart India Hackathon 2017:** Two teams received 4th and 13th rank respectively. Also received PERSISTENT INSPIRATION AWARD.



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

One day workshop on
"Problem Solving and Programming Skill"
Friday 8th Mar, 2019

Time	Particulars
10.00 – 10.05	Welcome and introduction of the workshop
10.05 – 10.10	Felicitation of the Dr. Amol C. Adamuthe in the auspicious hands of Dr. Vijay Ghorpade Principal, BVCOE, Kolhapur
10.10 – 10.20	Speech by Dr. Vijay Ghorpade Principal, BVCOEK
10.20 – 10.25	Introduction of speaker Dr. Amol C. Adamuthe
10.30 – 12.30	Session I – Problem Solving
12.30 – 01.20	Lunch Break
01.20 – 03.20	Session II – Programming Skills
03.20 – 03.50	Question & Answer session
03.50 – 04.00	Vote of thanks



BHARATI VIDYAPEETH'S
COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

One day workshop on "Problem Solving and Programming Skill" Date - 08/03/2019				
Sr.	Student Name	Class	SESSION I Problem Solving	SESSION II Programming Skill
1	Sutar Ishwar Rajendra	S.E	Ishwar	Ishwar
2	Patil Navadip Appaso	S.E	Navadip	Navadip
3	Yenawar Akash S.	S.E	Akash	Akash
4	Shubham Totaskar	B.E	Shubham	—
5	Shivraj Mohite	B.E	SB	—
6	Swapnil V. Khataekar	B.E	Swapnil	—
7	Vaibhav D. Kamble	S.E.	Vaibhav	Vaibhav
8	Sameer M. Mujawar	S.E.	Sameer	Sameer
9	Patankar Yashraj J.	S.E	Yashraj	Yashraj
10	Aadesh S. Chendake	S.E	Aadesh	Aadesh
11	Sushant D. Aswale	S.E.	Sushant	Sushant
12	Shoaab Adhikrao Yadav	SE	Shoaab	Shoaab
13	Siddhesh A. Dhobale	SE	Siddhesh	Siddhesh
14	Onkar Anil Gaikwad	SE	Onkar	Onkar
15	Aadesh Santosh Nichite	BE	Aadesh	—
16	Rohit Y. Kamble	BE	Rohit	Rohit
17	Aditya S. Kanade	S.E	Aditya	Aditya
18	Vinayak J. Arade	S.E	Vinayak	Vinayak
19	Kunal B. Ningarrani	S.E	Kunal	Kunal
20	Zohan B. Patil	S.E	Zohan	Zohan
21	Prayakt R. Chatter	S.E	Prayakt	Prayakt
22	Ajinkya U. Patankar	S.E	Ajinkya	Ajinkya
23	Suraj S. Shinde	T.E.	Shinde	Shinde

Sr.	Student Name	Class	SESSION I Problem Solving	SESSII Programmin.
24	Bisadde channappa I	TE	<u>Gbird</u>	<u>Gbird</u>
25	Suryawanshi Yash Awil	SE	<u>Surya</u>	<u>Surya</u>
26	Avinash Kumaar	SE	<u>Avil</u>	<u>Avil</u>
27	Parth. S. Shinde	SE	<u>Shinde</u>	<u>Shinde</u>
28	Bhosale Akshay Nana	TE	<u>Akshay</u>	—
29	Janwade Kishor vishwanath	TE	<u>Janwade</u>	—
30	Nair Gokul Surendran	TE	<u>GokulNair</u>	—
31	Kashid Akshay Nanaso	TE	<u>Akashid</u>	<u>Akashid</u>
32	Khade Vinaykumar T.	TE	<u>Vinay</u>	<u>Vinay</u>
33	Kurale Shubham Arvind	TE	<u>Shubham</u>	<u>Shubham</u>
34	Abhishek Sanjay keluskar	TE	<u>Abhishek</u>	—
35	Dinesh Rajkumar Marwani	TE	<u>Dinesh.M</u>	—
36	KAKADE OMKAR ANIL	T.E	<u>Omkar</u>	<u>Omkar</u>
37	Pawar Snehal Anin	T.E	<u>Snehal</u>	—
38	pawar Swapnali Uday	T.E	<u>Swapnali</u>	—
39	Samsuddhi S Pedekar	T.E	<u>Samsuddhi</u>	—
40	Tija V. Pisal	BE	<u>Tija Pisal</u>	—
41	Siddhi R. Ingavale	BE	<u>Siddhi</u>	<u>Siddhi</u>
42	Susmita S. Patil	BE	<u>Susmita</u>	—
43	Vidyashri R. Jadhav.	BE	<u>Vidyashri</u>	—
44	Shriya S. karanjkar.	BE	<u>Shriya</u>	—
45	Bhagyashri S. Jankar	TE	<u>Bhagyashri</u>	—
46	Pratiksha S. kadam	TE	<u>Pratiksha</u>	—
47	Shravani Daiv	TE	<u>Shravani</u>	—
48	Shruti Jadhav.	TE	<u>Shruti</u>	—
49	Smita Krushna Patil	BE	<u>Smita</u>	—
50	Prajakta Ramesh Charver	B.E	<u>Prajakta</u>	—

Sr.	Student Name	Class	SESSION I Problem Solving	SESSION II Programming Skill
51	Pooja Prakash Powar	B.E	<u>Powar</u>	<u>Powar</u>
52	XXXXXXXXXX	B.E	XXXXXXXXXX	XXXXXXXXXX
53	Projakta shrikant Ayarekar	B.E	<u>Ayarekar</u>	—
54	Priyanka Vidyadhar Patil	BE	<u>Patil</u>	—
55	XXXXXXXXXX	B.E	XXXXXXXXXX	—
56	Aishwarya D. Patil	BE	<u>ADPatil</u>	<u>ADPatil</u>
57	Sonali S. Patil	BE	<u>Satil</u>	<u>Satil</u>
58	Jagadale Rutuja B.	TE.	<u>Rutujale</u>	—
59	Choukekar Shilpa D.	TE	<u>Shilpa</u>	—
60	Makandar Akhesham Iqbal	TE	<u>Allokandar</u>	—
61	Madhuri Tanaji shewale	TE	<u>Shewale</u>	—
62	Jyoti Laxman Telvekar	TE	<u>Telvekar</u>	—
63	Patil sayali shatrughan	TE	<u>Satil</u>	—
64	Yesugade Aparna Dilip	TE	<u>Ayesugade</u>	—
65	Chetana Neerandra Jain	BE	<u>Jain</u>	<u>Jain</u>
66	Nikam Manohar Ajit	TE	<u>Nikam</u>	—
67	Nimitti Suresh Shinde	SE	<u>Shinde</u>	<u>Shinde</u>
68	Jyoti Ramesh Katke	SE	<u>Katke</u>	<u>Katke</u>
69	Kasote Pooja S.	SE	<u>Kasote</u>	<u>Kasote</u>
70	Chalke Tejasvi suresh	SE	<u>Chalke</u>	—
71	Pasare Archana Prangyan	SE	<u>Archana</u>	<u>Archana</u>
72	Patel Ekata B.	SE	<u>Patel</u>	—
73	Mandankar Anuja. Y.	SE	<u>Mandankar</u>	—
74	Tade Srushti P.	SE	<u>Tade</u>	—
75	Momin Tabassum A.	SE	<u>Momin</u>	<u>Momin</u>

Ref: BV/LOBK/811/2019-2020

Date - 08/03/2019

To,

Dr. Amol C. Adamuthe

Head of Department of Information Technology,
Rajarambapu Institute of Technology, Sakharale

Subject – Thanking for delivering expert lecture for “One day workshop on problem solving and programming skill” for SECSE and TE CSE Students

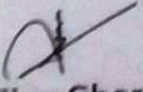
Dear Sir,

On behalf of the Bharati Vidyapeeth's college of Engineering, I would like to thank you for delivering expert lecture for one day workshop on the topic “**PROBLEM SOLVING AND PROGRAMMING SKILL**” on **Friday 8th Mar, 2019** at our Institute for students of CSE department.

From the oral feedback we've received from the students, your expert lecture was excellent.

We appreciate the time you took out of your busy schedule to join us and thank you for sharing your knowledge and expertise with our students.

Again, many thanks for your time and effort.


Dr. Vijay Ghorpade
Principal

Received
-KAT

Ledger book Page No.

Bharati Vidyapeeth

COLLEGE OF ENGINEERING, KOLHAPUR
VOUCHER

Vr. No.

To, The Principal, Bharati Vidyapeeth COLLEGE OF ENGINEERING, Kolhapur:

Name of the person receiving the Amount DR. Anil C. Adawathe

Address RJT, Sakharale

Account: Two thousand only Date 08/03/2019

Particulars	Rs.	Ps.
Remuneration of Resource person for one day workshop on "Problem solving and programming skill" for Q&E department student	2000/-	
Date - 08/03/2019		
Total Rs. in words <u>Two thousand only</u>	2000/-	

Amount as per above particulars received in cash/by cheque No : 813117 Bank

813117
Principal

Administrative officer

Accountant/Cashier

Sign. of Receiver