# ACADEMIC YEAR 2013-14

।। प्रज्यलिनां ज्ञानमयः प्रदिषः ।।.

Rajgad Dnyanpeeth's . . \*

# Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil

Anantrae Thomte

Hon. secretary

Anantrao Thopte
Founder President
Ex. Education Minister
Maharashtra State



# Department of Mechanical Engineering

Date: 15-12-2013

# INVITATION LETTER

To,

The Head,

Robogalaxy,

UVSofts Technologies Pvt. Ltd.

Dear Sir,

On behalf of Rajgad's SCSCOE College, I am very pleased to have the honor of inviting you to conduct four days workshop, in our college on Robotics. We will be arranging the workshop as per your convenience. We are expecting approximately 60-65 students and faculty from the Mechanical Department.

Please let us know if you will require any audio-visual equipment or additional technological support. I look forward to meeting you at our Campus.

Best wishes

DTE:6324
SPPU:4071
Dhangawadi
Pune
412206

Prof. S. K. Pawar Head of Department

Dept. of Mechanical Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

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# SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

# **NOTICE**

Date: 18/12/2013

All the students of SCSCOE are hereby informed that Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangawadi is going to organize Four Days workshop on Robotics confirmed dates are 17<sup>th</sup> January to 20<sup>th</sup> January 2014. Participant students will learn about Robotics and can make racing robot within Four Days and will get certificate from Robogalaxy, UVSofts Technologies Pvt. Ltd. The registration fees per student is Rs. 1250/-. Those who are interested should urgently contact along with registration fees to Prof. S. K. Pawar (Mech. Dept.).



Prof. S. K. Pawar

Head of Department

Dept. of Mechanical Engineering

Shri Chh. Shivajiraje College of Engg.

Dhangawadi, Pune-412206

# SHRI CHATTRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune (Maharashtra)

### REPORT OF FOUR DAYS NATIONAL LEVELWORKSHOP ON ROBOTICS

DEPARTMENT: Mechanical Engineering

CLASS: TE

Pune 412206

NAME OF TRAINER:

FROM: UVSofts Technologies Pvt. Ltd.

TITLE OF SESSION: Learn to build wireless robots.

DAY & DATE: 17th Jan. to 20th Jan. 2014

DURATION OF SESSION: Four Days

STUDENTS PRESENT: 65

CORDINATOR: Prof. S. K. Pawar.

OBJECTIVE: To bring participant students in a position to learn how to build wireless robots.

DISCRIPTION: Robogalaxy, UVSofts Technologies comes up with a new idea to encourage students on very interesting and upcoming topic of Robotics. It is basically to clear a concept of how tobuild wireless robots. The measured contents of this course are basics of robotics, circuits and motors. How to solder, how to build a circuit on breadboard and finally how to build a wireless robot. Robogalaxy has explained constructional concepts of multimeter, Encoder, Making a Transmitter, Build a Dual Motor Drive, Decoder.

### PHOTO'S DURING SESSION:



Photo Session During Workshop.

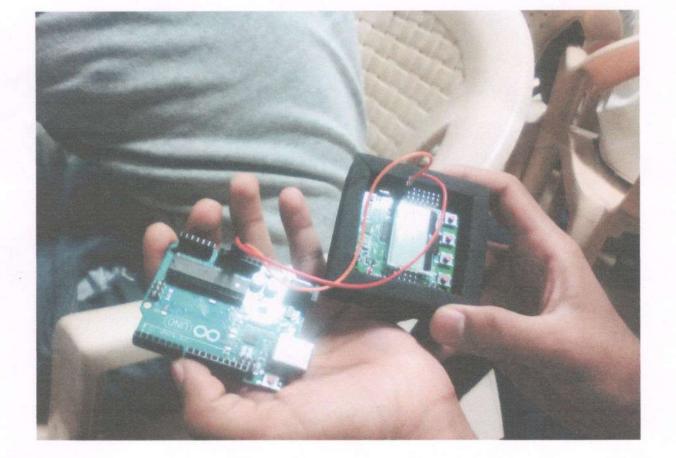


Photo Session During Workshop

CONCLUSION: The knowledge about all aspects of Electronics, Mechanics, Design of machine elements, Programming and Communication is really useful to the all participant students.



Prof. S. K. Pawar

Head of Department
Dept. of Mechanical Engineering
Shri Chh. Shivajiraje College of Engg.

Dhangawadi, Pune-412206



# Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

# **Department of Mechanical Engineering**

# Syllabus of Workshop on "Robotics"

# PART A

### Introduction to Robotics:

• Introduction -- brief history, types, classification and usage, Science and Technology of robots

# PART B

• Elements of robots – links, joints, actuators, and sensors

### PART C

Position and orientation of a rigid body, Homogeneous transformations, Representation of joints, link representation using D-H parameters, Examples of D-H parameters and link transforms, different kinds of actuators – stepper, DC servo and brushless motors, model of a DC servo motor, Types of transmissions, Purpose of sensors, internal and external sensors, common sensors – encoders, tachometers, strain gauge based force-torque sensors, proximity and distance measuring sensors, and vision.

# PART D

Introduction, Direct and inverse kinematics problems, Examples of kinematics of common serial manipulators, workspace of a serial robot, Inverse kinematics of constrained and redundant robots, Tractrix based approach for fixed and free robots and multi-body systems, simulations and experiments, Solution procedures using theory of elimination, Inverse kinematics solution for the general 6R serial manipulator.

DTE:6324 SPPU:4071 Dhangawadi Pune

# RAJGAD DNYANPEETH TECHNICAL CAMPUS, DHANGAWADI.

Shri Chhatrapati Shivajiraje College of Engineering Department of Mechanical Engineering

# **Attendance Sheet for Workshop on Robotics**

Sr.No.	Class	Name of Student	Date	17/01/14	18/01/14	19/01/14	20/01/17
1	Mech	DHUMAL AJINKYA LA	XMAN	Alex	ALO	Alo	Deal
2	-11-	VIDHATE PARAG DHA	RMARAO	Do	Be	Do	De
3	-11-	MARKAD AMAR DATT	ATRAY	Dmake	Almorte	Aprante	Apronte
4	_11	KOREKAR ANNASAHE	B ASHOK	Hepter	Alcpokow	Mapelon	Alcopalion
- 5	-11-	. SHIMPI PRATIK SHAM	IKANT	181h	ysin	Him	yein.
6	-17-	KHILARI DNYANESHV	VAR LAHU	Denil	Dahin	Deles	phi
7	P-11-	KUNJIR PRAMOD SUB	HASH	Prandk	Premak	Proudk	Prank
8	-11-	SHELKE SAGAR BHAG	WAN	Sheller	Shake	Shelke	Shelke
9	-11-	MANE TUSHAR YADA	V	Ment	purt	pust	potes
10	-11-	TAMBE OMKAR SATIS	Н	Okulos	O Tomb	Otent	Ofost
11	-11-	SHELAR VISHAL ANK	JSH	\$	\$	\$	Q
12	-11-	KHALADKAR KIRAN J	ALINDAR	the farmen	En Mar	Kinder	kut
13	-11-	CHAUHAN DEVENDRA	AKUMAR R	Don's	(Pert	Coen	Cost
14	-11-	SAINI ANAND VIJAYBA	AHADUR	Doin	Doin	Dian	Dairy
15	-11-	PATIL SAMEER EKNA	ТН	Ficht .	Pat!	Patil	Post!
16	_11-	NIKAM OMKAR CHAN	DRAKANT	Onder	Outon	Outer	Order
17	-11-	SHINDE ROSHAN DILI	Р	Bul	Such	Sand	Shed
18		UDTHA SHAILESH SAI	NTAJI	cas	Was-	and	4
19	-11-	MANSUKH VISHAL SH	ANKAR	Thanker	provar	Shower	Thurkey
20		WARULKAR RUPESH	RAMESH	Rail	Reel.	Roul	Paul
21	<u>n</u>	TUPE REVANNATH LA	XMAN	tupe	tup	- Jule	rupt
22	_11-	GARUD TUSHAR G.		Tand.	Tagel.	Tail	Taul.
23	-11-	YADAV CHETAN MOH	AN	falor	yaler	Julies	Jalen
24	-1~	GOPALGHARE RAJ RA	MESH	Gul	Oul	Goed	Gent
25	-11-	BICHHEWAR UMESH	SHIVAJI	uner	amedo	uman	uned



# Rajgad Dnyanpeeth's RAJGAD DNYANPEETH TECHNICAL CAMPUS, DHANGAWADI

Shri Chhatrapati Shivajiraje College of Engineering Department of Mechanical Engineering

# **Attendance Sheet for Workshop on Robotics**

26	-11-	KHALADKAR MAHENDRA JALINDAR	Jakul-	Jaled	July	Jane
27	_11_	KAVITAKE SANTOSH LALCHAND	Kantor	Kindpik	Kenstane	Kowstan
28	-11-	KHANDARE ATISH ARUN	Acutish	Ashls	Atol	Asher
29	-11-	LINGE YOGESH VALMIK	Longe	- tenge	longe	Longe
30	_11-	DANGAT ROHAN SHARAD	Roeshi	Radh	Kash	Roch
31	_11-	WADILE RUPESH LALCHAND	wadrie	madrie	wadne	wadre
32	-11-	WANKHADE AJINKYA RAJENDRA	Markhal	Wewlehl	Worked	Maule
33	-11-	NEWASE ROHIT GAJANAN	News	News	Henos	May
34	-11-	ABHIJEET P DAS	Dus	Das	Day .	gas.
35	———	ALKARI TUSHAR YUVARAJ	"Lucray"	Dung!	Yaivej	Euraj
36	-11-	AMOL GHOTALE	getobale	Burdaic	Curphale	Genotal
37	-11-	ANDRAT DYLAN AUSTIN	Acel	Acel	Aud	Acul.
38	-11-	AVHAD SIDDHARTH BABAN	proceed	Avhad	pu had	prhoto
39	-11-	BARHATE SOMNATH MARUTI	Sew.	Sio.	800	Suo.
40	_1_	BAVADEKAR SUSHANT GAJANAN	Bal	Beel	Ball	Red
41	-11-	BHAGAT ANURAG ARUN	Aural	frund)	Aw	Auwa
42	-11-	BHAGAT KULDIP SANJAY	Kael	keel	Cool	Cool
43	-11-	BHANDE KIRAN SAMPAT	Lacrol	kee	Keel	Keel
44	-11-	CHAVAN AJAY PADMAKAR	Sour	Aure	Auc	Aus
45	-11-	CHAVAN ANIL KAILAS	Au.	Au	And	tal
46	-11-	CHAVAN KOMAL SHANKAR	chour	cheur	chown	chevar
47	-11-	CHAVAN SACHIN MAHADEO	fachen	Cachin	Cachen	Cacher
48	-11-	DALAVI DINESH DILIPKUMAR	Dulani	polled	Balus	Berny
49	-11-	DEOKARSUNIL CHANDRAKANT	gunt	(June )	-sund	Suns
50	-11-	GAIKWAD HEMANT VILAS	Samuel	- hence	hemon	homan



# Rajgad Dnyanpeeth's RAJGAD DNYANPEETH TECHNICAL CAMPUS, DHANGAWADI

Shri Chhatrapati Shivajiraje College of Engineering Department of Mechanical Engineering

# **Attendance Sheet for Workshop on Robotics**

Sr.No.	Class	Name of Student Date	17/01/14	18/01/14	19/01/14	20/01/17
51	-11-	GHARESACHIN BHARAT	Gloud	Gtoul	Gell	Goods
52	-11-	GHAWATE VISHAL DATTATRAY	GRUM	PRIM	( Jones	IQUM
-53	_11-	GHOGARE NILESH ARVIND	Sobject	Thojan	Chojert	Gehogan
54	-11-	GHOGARE SAMARJEET RAJENDRA	Kerun	Spring)	Alony	Stry
55	-11-	GHOLAP HRUSHIKESH RAJENDRA	Bholas	Gehoton	Gehology	Gehole
56		GOGAWALE KIRAN DATTATRAYA	Gwoley	Chopen	Color	Coston
57	-11-	GORAD PRANAV DATTATRAY	gorad	Coronad	Custad	Gorad
58	-11-	GURAV VISHAL VIJAY	Bizisav	Ocurar	Quan	Genra
59	-11-	JADHAV VISHAL UTTAM	Yosh	Value	War	Soul
60	-11-	JAGADALE MOHINISH ABBASAHIB	Jugacie	fashle	Paylale	Joshi
61	—11—	JAGTAP AVINASH KRISHANAT	DAW	Sant	Ju	Deel
62	-11	JAGTAP NIKHIL BHAGWAN	John	- Jaylor	Tages	- Laylor
63	-11-	KALEL DIPAK ANNA	Dul	Paul	Doug	Bus
64	-11-	KARAD SADANAND RAJKUMAR	Bul	GAul	(Aud	8that
65		KARANDE SUNIL NIWRUTTI	James de	James	Jumde	Junda

Mech.

Engg.

Depti.

Joanna de College de C

Mechanical Engineering Density Beptituft Meeti. Phiggiran College of Engineering Dhangawadi Tal. Bhor Dist. Pune - 412236

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Rajgad Dnyanpeeth's .

# Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil
Hon. secretary

Anantrao Thopte
Founder President
Ex. Education Minister
Maharashtra State

Date: -20/01/2014

To,

The Head.

Robogalaxy,

UVSofts Technologies Pvt. Ltd.

Dear,

We would like to take this opportunity to thank you on behalf of RDTC's SCSCOE; Dhangawadi for taking workshop on 'Robotics' conducted in our college from 17<sup>th</sup> September to 20<sup>th</sup> September 2014. It was obvious that you are extremely knowledgeable in your field. It saw everyone participated in workshop captivated by the sessions. We find that the whole area of your expertise in Robotics is truly fascinating and would ask that you consider a repeat performance at some future date.

Thanking you.

DTE:6324
SPPU:4071
Dhangawadi
Pune
412206
Shivajiraje Colless

Prof. S. K. Pawar

Head of Department

Dept. of Mechanical Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

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Sangalo

India's biggest advanced robotics competition by UVSofts Technologies



# Certificate Of Coordination

This is to certify that Mr/Ms lof. 3.K. Pawar	
of Mechanical Engg Dept.	
work as workshop coordinator in zonal rounds of	
ROBO GALAXY-2013, a national level robotics	
championship, held from 17 <sup>th</sup> Jan. 2014	
to 20th Jan. 2014 at SCCCOE Bhor. organized by	
UV Softs Technologies Pvt. Ltd.	/





UVSofts Technologies Pvt. Ltd.

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Our Official Partner: UVSofts Technologies Pyt. Ltd.

India's biggest advanced robotics competition by UVSofts Technologies



# Certificate Of Merit

This is to certify that Mr/Ms. Tambe Omkar s.
of Mechanical Engg.
have securedSecond
rounds of ROBO GALAXY-2013, a national level robotics
championship, held from 17th January 2014
to 20 January 2014 at SCSCOE Dhang wood brganized by
UV Softs Technologies Pvt. Ltd.



Director

UVSofts Technologies Pvt. Ltd.

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# Robo Galaxy

Pravega

hosted

Bangil ox

India's biggest advanced robotics competition by UVSofts Technologies



# Certificate Of Participation

This is to certify that Mr/MsShinde Roshan D
of Mechanical Engg.
participated in zonal rounds of ROBO GALAXY 2013-14, a
national level robotics championship , held
at granized by Technologies Pyt Ltdorganized by
UV Softs Technologies Pvt. Ltd.





UVSofts Technologies Pvt. Ltd.

Visit us: www.robo-galaxy.com | www.pravega.org

Our Official Partner: UVSofts Technologies Pvt. Ltd.

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India's biggest advanced robotics competition by UVSofts Technologies



# Certificate Of Merit

This is to certify that Mr/MsShinde	Roshan D.
of Mechanical Engg.	
have secured First	Position in zonal
rounds of ROBO GALAXY-2013, a nat	tional level robotics
championship, held from 17th Joi	
to 20 January 2014 at S.C.S.C.O.E. 1	Dhong wiorganized by
UV Softs Technologies Pvt. Ltd.	





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# ACADEMIC YEAR 2014-15

S No 30/3 2<sup>re</sup> Floor, Balaji Nagar K. K. Malket Chowk, Dhankawadi

Pune - 411 037, Maharashtra, INDIA.

Phone: 020 - 32420922. E-mail: mh.bibvewadi@caddcentre.ws



To, Respected, The Principal, SCSCOE Dhangwadi, Pune,

# CADD CENTRE, BIBVEWADI

RD's SCSCOE, Dhangwadi, Bhor, Pune- 412206

This Memorandum of Understanding, dated the 4th February Two Thousand and Fifteen, is entered between SCSCOE, Dhangwadi represented by Rajgad Dnyanpith Group of Institutions, and M/s. CADD Centre, Bibvewadi. S.No. 30/3,2nd Floor, Balaji Nagar, K.K. Market Chowk beside Shatayu Hospital Dhankawadi(as CADD Centre ) represented by Mr Kaustubh Panse as Managing Partner.

# - CADD CENTRE COLLOBORATION OBJECTIVE:

Maximise placement opportunities for students of Civil & Mechanical Engineering branches by equipping them with industry specific skills and make them industry ready. This Memorandum of Understanding is to conduct an Unique Systematic Skills Development Program for the students of the Engineering College Towards achieving the objective of maximising the employment opportunities for the students and to plan & develop their careers. This memorandum of understanding is being entered for a minimum period of 3 years, which can then be further extended mutually.

The Memorandum of Understanding states the terms and conditions under which the Unique Systematic Skills Development Programme shall be conducted by CADD Centre at the SCSCOE, Dhangwadi, and lists herein the respective responsibilities of both parties.

### PREAMBLE:

For a student to be recruited by a good company, he/she is expected to have the following:

1. Strong Fundamental management Knowledge.

Franchisee

Binary Solutions

Administrative Office: 8th Floor, GEE GEE Crystal, Office No. 8 C & 8 D.

Door No. 91, Dr. Radhakrishnan Salai, Mylapore, Chennai - 600 004. INDIA

Ph. 044 - 4596 6100 Fax 044 - 2847 3506

S. No. 30/3, 2<sup>rd</sup> Floor, Balan Nagar, K.K. Market Chowk. Dhankawagi Pune - 411 037, Maharashtra, INDIA.

Phone 020 - 32420922. E-mail: mh.bibvewadi@caddcentre.ws.



- 2. Engineering & Management related Multiple Technical Skills Develop skills that adds value.
- 3. Project Management & Design excellence Learn & Acquire the Skills
- 4. Communication & other Soft Skills.

CADD Centre will equip the Engineering branches students with the required industry specific project management skills.

Looking at huge vehicle design and manufacturing industry in Pune & around where most of the major OEM's & their vendors are located. The job opportunities in design segment are very good. The introduction of latest software for the vehicle design now requires new skill sets.

There are more than 5000 EPC & projectivized companies in Pune & Mumbai. They require lot of readymade professional for planning, contract management and tracking of project. The existing project management teams suffer to manage their project & implement the software. We wish to prepare our students for the same requirements.

Through this collaboration, CADD Centre will prepare the students of SCSCOE, Dhangwadi to be ready for industry by the time they enter the final semester and facilitate many of them to secure dream jobs. For this the students have to be nurtured and trained in different areas. Keeping in sync with academic progress and the knowledge curve over a period of time its proposed to be done for all students.

### SCOPE OF COLLOBORATION:

Both parties to this MOU agree that the broad scope of responsibility will be as stated below:

# CADD CENTRE BIBVEWADI SHALL PROVIDE

- The Internationally acclaimed CADD Centre course material to all students for each
- · Each student who successfully completes the training programme will be given a certificate.
- The requisite instructors to provide the training for the different software.
- Assessment of student on module completion.
- Special mock interviews for the final year students to prepare them for the regular oncampus jobs.

Franchisee

: Binary Solutions

Administrative Office: 8th Floor, GEE GEE Crystal, Office No. 8 C & 8 D, Door No. 91, Dr. Radhakrishnan Salai, Mylapore, Chennai - 600 004. INDIA.

Ph.: 044 - 4596 6100 Fax: 044 - 2847 3505

S No. 30/3, 2ºº Floor, Balaji Nagar, K.K. Market Chowk, Dhankawadi. Pune - 411 037, Maharashtra, INDIA.

Phone: 020 - 32420922. E-mail: mh.bibvewadi@caddcentre.ws



# INSTITUTE OF ENGINEERING SHALL PROVIDE :

Required number of computer systems in the lab for the practicals.

Class rooms with LCD projector for the theory classes.

- Schedule the classes for this training during normal working hours of the college.
- Ensure all students in a class will attend the training programmes scheduled for them.
- Disciplinary support for the smooth conduct and timely completion of the entire course.

Appropriate software licenses for the training program.

# COURSE CONTENTS

CADD Centre in consultation with SCSCOE, Dhangwadi has finalized the course contents for the skills development program. These will be reviewed every year and suitable changes, if required, will be incorporated. As the requirement of each core engineering branch is different, course contents have been worked out separately for each branch.

# TIME SCHEDULE

The programme(s) will be conducted during or after the college working hours as per the guidance of the mentor at the college. The students will be divided into batches, depending on the total strength.

# LINK OFFICER

The Principal shall appoint a Link Officer from each department for the duration of the programme, who shall liaise with CADD Centre and speak for the participants to make the training process learner-friendly and effective. CADD Centre shall work in close relationship with the Link Officer, who shall in-turn keep a close touch with the students. In the event of any difference of opinion between CADD Centre and the Link Officer, the matter should be referred to the Prof.Jadhav G.S., whose decision thereon shall be final.

Franchisee

: Binary Solutions

Administrative Office: 8th Floor, GEE GEE Crystal, Office No. 8 C & 8 D,

Door No. 91, Dr. Radhakrishnan Salai, Mylapore, Chennai - 600 004, INDIA.

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# COURSE FEES & PAYMENT PATTERN

The course fees per student for each one the courses offered is detailed at Annexure 2. Full fees will be paid in advance..

# JURISDICTION

All matters, queries, disputes or differences, whatsoever, arising between the parties touching the construction, meaning, operation or effect of this Memorandum of Understanding or out of or relating to this Memorandum of Understanding or breach thereof shall be settled through arbitration in accordance with the relevant Arbitration Act in force at such time. The Arbitration award shall be binding on both parties.

# VALIDITY

This Memorandum of Understanding will be valid for a period of 3 years.

This Memorandum of Understanding shall come into effect from 4th Feb 2015

ON BEHALF OF

RD's SCSCOE, Dhangwadi,

PRINCIPAL

Shri Chhatrapati Shivajiraje College Of Engineering Dhamawadi, Tal. - Bhor, Dist. - Pune

ON BEHALF OF

CADD Centre, Bibvewadi

CADD CENTRE, Dhankawadi

K.K. Market Chowk, Pune-37. PH:- 9673476000 / 32420922

Franchisee

: Binary Solutions

Administrative Office: 8th Floor, GEE GEE Crystal, Office No. 8 C & 8 D

Door No. 91, Dr. Radhakrishnan Salai, Mylapore, Chennai - 600 004. INDIA

Ph : 044 - 4596 6100 Fax: 044 - 2847 3505

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Raigad Dnyanneeth's

# Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Mahardshtral and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil

Anantrao Thopte
Founder President
Ex. Enucation Ministe



Ref. No. RD/SCSCOE/CIVIL DEPT/2014-15/

Date: 21/01/2015

# INVITATION

To,

Mr. Kaustubh Panase

CADD Centre,

Bibvevadi, Pune

Subject: Invitation for conducting Auto CAD Course.

Ref: Your telephonic discussion with Prof. S. R. Sutar on 12 Nov. 2015

Respected sir,

This gives Department of Civil Engineering of SCSCOE, great pleasure to request you to conduct certified course Programme as Auto CAD Course for Third year Civil students in SCSCOE, Dhangawadi. We will be thankful to you if you can schedule this programme of 40hrs on each Saturday and Sunday of February and March of 2015. Kindly note that majority of expected participants are from academia.

Therefore we are looking forward to meet you soon and get enlightened with your experience.

Thanking you.

Pecerson Parent

Prof. S. R. Sutar

Co-ordinator

OT OTHERDER

THE 6528

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PURB

412205

Yours Faithfully,

Prof. G. S. Jadhay

Hell O. D. of Cirth Engl.

Dept. of Civil Engineering Shri Chib. Shivajiraje College of Engg. Dhangawadi, Punc-413206

# SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal - Bhor, Dist-Pune (Maharashtra)

Date: 06/02/2015

# NOTICE

All students of TE Civil hereby informed that we are going to start Auto CAD 2D certified courses programme in our department at Computer Lab those students are interested kindly contact to Prof. S. R. Sutar. Contact No. 9096246540

Prof. G. S. Jadhav

Head of Department
Dept. of Civil Engineering
Shri Chh. Shivajiraje College of Engg.
Dhangawadi, Pune-412206



# AUTOCAD SYLLABUS

DAY	CHAPTER	TOPICS	HOURS			
DAY 1	INTERDICTION OF AUTOCAD	AutoCAD versions Interface	1			
DAY 2	Control the Drawing	Function keys	1			
	CHANGE VIEWS	VCC U AND NORMAL AND AND				
DAY 3	Cartesian coordinate system	ABSOLUTE COORDINATE SYSTEM RELATIVE COORDINATE SYSTEM	1			
DAY 4	1					
DAY 5	Modify commands	Move ,Rotate, Scale, copy, Mirror, erase, trim, extend	1			
DAY 6	Annotate Dimension Style Manager	Linear, Aligned, Radius Angular, Arc length	1			
DAY 7	Text command Layers blocks	Single line text Multiline text Layer properties Insert blocks	1			
DAY 8	Parametric	Geometric, Dimensional Manage	1			
DAY 9	Isometric views	Isometric top, left, right Isometric diagrams	1			
DAY 10	Isometric drawings	Isometric diagrams exercise	1			
DAY 11	2D Fundamentals	Drawing units Sheet settings	1			
DAY 12	Mechanical diagrams	knuckle joint	1			
DAY 13	2d drawings	Idler plate Hook drawing	1			
DAY 14	2d diagram	fork	1			
DAY 15	Create and Save AutO CAD	Save files Export pdf plot	1			

DAY	CHAPTER	TOPICS	HOURS			
DAY 16	Use the AutoCAD visual reference commands	Drawing Area Setup Visual reference	1			
DAY 17 Interactive Input method		grid snap mode	1			
DAY 18	Civil Building planning and drawing	anning introduction to building drawing				
DAY 19	brief history of building drawing	The state of the s				
DAY 20	exercise – 1 planning house drawing rough sketch	1				
DAY 21	Institutional buildings floor plan					
DAY 22	different types off detached house residential buildings semi detached house					
DAY 23	duplex type house	drawing ground floor  1 <sup>st</sup> floor  2 <sup>nd</sup> floor	1			
DAY 24	principles of planning of building	residential house public buildings	1			
DAY 25	elevations	1 <sup>st</sup> floor 2 <sup>nd</sup> floor elevation	1			
DAY 26	door drawings windows	door elevation windows	1			
The second secon		Drawing partitions	1			
DAY 28	electrical drawings	Circuit,transistor symbols	1			
DAY 29	electrical plans	exercises	1			
DAY 30	AutoCAD workspaces are sets of menus	1				

# SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

### REPORT ON Auto CAD 2D Course PROGRAMME

TITLE/TOPIC: "Auto CAD 2D Course"

SESSION: Computer Lab

DURATION OF SESSION: Each Saturday & Sunday at 11 am -5 pm

OBJECTIVE: To train the students architectural drawing and planning it is generally known as computer aided drafting software.

<u>DESCRIPTION</u>: With the help of this students to have reasonably good knowledge regarding Auto CAD and its applications which involve following things as below

- INTRODUCTION TO AUTOCAD
- STARTING WITH ADVANCED SKETCHING.
- WORKING WITH DRAWING AIDS
- EDITING SKETCHED OBJECTS
- DRAW RESIDENTIAL BUILDINGS
- INTRODUCTION TO 3D INTERFACE

CONCLUSION: This course covers the complete analysis and design of RCC structures.

# PHOTO DURING SESSION:







Prof. S. R. Sutar

Co-ordinator

Prof. G. S. Jadhav

Headbord partment
Dept. of Civil Engineering
Shri Chh. Shivajiraje College of Engg.
Dhangawadi, Pune-412206





# Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

# **Department of Civil Engineering**

# SYLLABUS for Workshop on "AUTO CAD"

### PART A

# **Introduction of AUTOCAD**

- Auto CAD versions
- Interface
- Function keys
- AutoCAD basics
- Absolute & Relative Coordinate System

# **Draw Commands**

- Line command
- Polyline command
- Rectangle command

# **Modify Commands**

• Move, Rotate, Scale, copy, mirror, Erase, trim, Extend

# **Annotate Dimension Style Manager**

• Linear, Aligned, Radius Angular, Arc length.

### PART B

# **Text Command Layer Blocks**

- Single Line text
- Multiple line text
- Layer properties
- Insert blocks

# **Parametric**

- Geometric
- Dimensional manage

### **PART C**

### **Isometric views**

Isometric top, left, right views

# **Isometric Diagrams**

# 2D Fundamental

Drawing units

- Sheet settingsMechanical diagrams- knuckle joint
  - PART D

# 2D drwings

- Idler plate
- Hook drawing
- fork

# **Civil Building & Planning**

- Brief history of building drawing
- Planning house drawing
- Floor plan
- Detached & semi-detached house
- Principal Planning of building
- Elevations
- Door drawing windows
- Drawing Partition

# PART E

# **Electrical Drawings**

- Circuits
- Transistor symbols
- Electrical Plan
- Introduction to 3D interface

# SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

# "Auo CAD 2D Course"

# Student Attendance Sheet

Sr. No.	Name of students	7/03/15	8/3115		15/3/15	21/3/15	22/3/15	-28/3/15	29/3/10	4/4/15	514115
1	Swapnil Maruti Sathe	Softe	Sulfre	Sathe	Sahre	Salhe	Seithe	Sathe	Southe	sathe	Sathe
2	Sunil Dhananjay Rathod	Rathed	Soothed	Rathad	Padhod	Pathod	Patho	Rathod	Patheo	Parthod	Rathou
3	Swapnil Bhimrao Khute	SBK	SBK	SBA	SBb	SBL	SBA	SBL	SBIL	SBK	SBK
4	Shinde Ajinath N.	AL		AT	AT	AT	AF	AT	AT	AT	AT
5	Vinod Anil Ranaware	Ranaw	Para	Pana	Paraw	fara	Para		Paran	Panar	Paran
6	Mhaske Sagar	Saga	Sagav	Sagar	Segar	Segu	Sagar	Sagan	Saga	Sagar	Segan
7	Jagtap Dhiraj R.	Pr	PI	<b>P</b> )	PI	81	Ð	P	PI		PI
8	Mayur Ashok More	MayuM	NawyM	Mayum	Meyun	meyer	Magum	Mayum	Mayum	mayum	Mayun
9	Swati Sham Bhokare	Suet B.	Swafs	Swa Mg	South	Datie	SantiB	Sound	Soatis	Sweller	swatis
10	Jitendra Mahadeo Bhise	Bi	BN	Bhi	Shi.	Bhi	Bhi	Bhi .	Bhi	di-	Bhi
11	Akshay Rajaram Shinde	ARS	ARS	APO	APS	APJ	AB	ARS	APS	APS	AB
12	Pranita Prakash Bandal	Bandu	Bandal		Bandol	Banda	Bandal	Barda	Bindal	Banda	Bardal
13	Shivam Kumar Pal	Pal	Ray	Pal	(Pat	Pal	SPal	Pay	Raj.	Day.	Pal
14	Vaibhav Santosh Jamdar	Vanda	Randy	Many	gandy	- Vary	Mardan	Varols	Trondon	Vandy	Monday
15	Nikhil Pandharinath Gaikwad	Salar	agileur		Galbian	applied	gaibwad	Garpena	Babiero	Gaited	Operand Ship

# SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

# "Auo CAD 2D Course"

# Student Attendance Sheet

Sr. No.	Name of students	11/4/15		18/4115	1914115	2574118	26/4115				
1	Swapnil Maruti Sathe	Sale	Sadhe	Sathe	Sathe	sathe	Sathe				
2	Sunil Dhananjay Rathod	Rathed		Rathel	Rathod	Pathou	Racthod				
3	Swapnil Bhimrao Khute	she	/ /	SBR	SBK	88	SBE				
4	Shinde Ajinath N.	AT		AT	AT	AT	AT			190	
5	Vinod Anil Ranaware	faras	Ranaw	Panan	Paraw	Parav	Pancow				
6	Mhaske Sagar	Segar	Sagar	Sagar	Sagar	Sagar	Sagar				
7	Jagtap Dhiraj R.	<i>8</i> 1		0)	BI	PI	PI				
8	Mayur Ashok More	Mayum	Mayen	Mayum	Mayum	Mayum	mayum	TIME			
9	Swati Sham Bhokare	swalj8	Smalls	Swaliz	South	SPALIB	SidnAB	-	let)		
10	Jitendra Mahadeo Bhise	Bhi	Bhi	Bhi	Bhi	Av'	Bh				
11	Akshay Rajaram Shinde	APS	ARS	APS	ARS	APS	OBS				
12	Pranita Prakash Bandal	Banda		Bardal	Bardal	Banda	Bando				
13	Shivam Kumar Pal	Raj	(Pa)	- Pal-		Dal	lead	-			
14	Vaibhav Santosh Jamdar	Monday	Munday		Monday		Wander	10			
15	Nikhil Pandharinath Gaikwad	asibidal		Dailwad	Garbied	Spread	1				3

# Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Gov Cof Maharashtra and Affiliated to the University of Pure (ID NO PU PN/Engg)370/2009

Dr. Bhagyashree's, Patil



Ref. No. RD/SCSCOE/CIVIL DEPT/2014-15/

Date: 24/04/2015

CONDUCTION

To.

Mr. Kaustubh Panase

CADD Centre,

Bibvevadi, Pune

Subject: Expression of gratitude

Dear Sir.

On behalf of Institute, It gives me an immense pleasure to thank you for sparing your valuable time with us and sharing your experiences. We express our immense gratitude for having you at our college to conduct a fabulous session on "Auto CAD 2D" dated on March 2015 to April 2015. It was our pleasure for having a person like you at our institute. We take this opportunity to tell you this with pride that our student thoroughly enjoyed your entire session. We would like to know if you ever need our support.

We look forward for your expertise in future educational endeavors

Thanking you.

Deserved Than

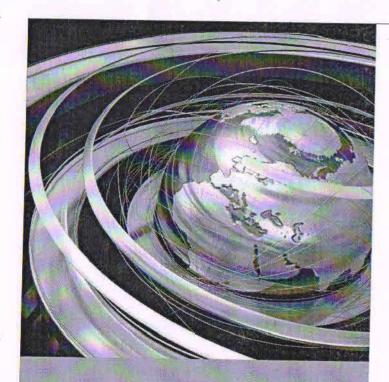


Yours Sincerely.

Prof. G. S. Jadhay

HARD of Civil Engineering

Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206



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# CERTIFICATE OF COMPLETION

IN

Course on AutoCAD 2D

AWARDED TO : RATHOD SUNIL DHANANJAY

AT

CADD Centre Training Services, Pune, Bibvewadi

DURING

April'2015

STUDENT ID No.: A150357115

This is a computer generated certificate. For more details, Please verify at <a href="http://www.caddcentre.com/caddVerification.php">http://www.caddcentre.com/caddVerification.php</a>



MANAGING DIRECTOR

Kaustubh Panse

CENTRE HEAD

29 - 04 - 2016

DATE OF ISSUE



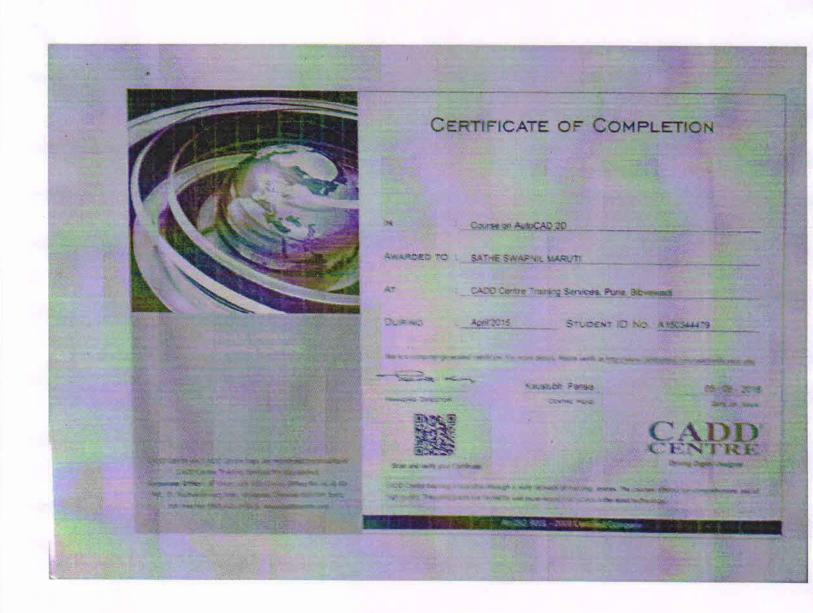
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Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

"Auto CAD 2D Course".

# Student Feedback Form

Students are required to rate the course on the following attributes using the 4 -point scale shown.

Course: [tick  $(\checkmark)$  in the relevant cell]

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
1.	Overall rating of the course content				
2.	Course objectives were clear				
3.	Clarity and relevance of textual reading material				
4.	The teacher was effective in communicating the content of the course	~			
5.	The teacher responded to questions in an informative, appropriate and satisfactory manner.		-	-	
6.	Do you have any suggestions for future workshops that you would like us to organize?	yes	<b>L</b>	t.	
7.	Would you recommend this course to other students?	ye			
Any	Other Comments- Session Was	s awadon	e its	and be we	sleed on



# SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

"Auto CAD 2D Course".

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Course: [tick  $(\checkmark)$  in the relevant cell]

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
1.	Overall rating of the course content				
2.	Course objectives were clear		1		
3.	Clarity and relevance of textual reading material			E	
4.	The teacher was effective in communicating the content of the course	V			
5.	The teacher responded to questions in an informative, appropriate and satisfactory manner.		~		
6.	Do you have any suggestions for future workshops that you would like us to organize?	Yes			
7.	Would you recommend this course to other students?	Yw			



# SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

# DEPT. ELECTRONICS AND TELECOMMUNICATION ENGG.

DATE: 28/07/2014

# **NOTICE**

All TE and BE E&TC students are hereby informed that, workshop on "PIC, ARM and RTOS". will be on 30/07/2014 to 04/08/2014 at 11.00am in Seminar Hall.

SPPU:4071 Dhane wadi Pune 412206

Note: Attendance is compulsory\*.

Prof. M. S. Sapte COORDINATOR

Prof. T. M. Dudhane HOD

Head of Department
Dept. of E& TC Engineering
Shri Chh. Shivajiraje College of Engg.

Dhangawadi, Pune-412206

।। प्रज्यनितां ज्ञानमयः प्रदिषः ।।

Rajgad Dnyanpeeth's

#### Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil Hon. secretary

Anantrao Thopte
Founder President
Ex. Education Minister
Maharashtra State



Date: 23/07/2014

#### INVITATION LETTER

To, Mr. Aniket Mullur Honeywell India Pvt Ltd Pune

Subject: Invitation for conducting Workshop on "PIC, ARM and RTOS".

Respected Sir,

On behalf of RD's SCSCOE, I am very pleased to have the honor of inviting you to conduct workshop on "PIC, ARM and RTOS".

We will arrange the Workshop as per your convenience. We are expecting approximately 90 students from Our Institute.

Please let us know your availability and your requirements for workshop like tools, any audiovisual equipment or additional technical support. I look forward to meeting you at our Campus.

Best wishes.

Prof. M. S. Sapte
Workshop Coordinator

Mullur A Shir Ching Shir Ching

DTE:6324
SPPU:4071
Dhanenwadi
Pune
412206

Prof. T. M. Dudhane HOD

**Head of Department** 

Dept. of E& TC Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

#### DEPT. OF ELECTRONICS AND TELECOMMUNICATION ENGG.

Date: 30/07/2014

#### First Day of Workshop on "PIC ARM and RTOS"

#### Date:30/07/2014

Sr.No.	Time	Contents
1	9.30 am to 10.00am	Introduction Ceremony
2	10.00am to 12.00pm	Brief on PIC microcontroller
3	12.00am to 12.45pm	LUNCH
4	12.45am TO 2.4pm	Architecture of PIC
5	2.45pm to 3.00pm	TEA BREAK
6	3.00pm to 5.00pm	Software Development

#### Second Day of Workshop on "PIC ARM and RTOS"

#### Date:31/07/2014

Sr.No.	Time	Contents
1	10.00am to 12.00pm	Introduce the outline architecture of ARM7 microcontroller
2	12.00am to 12.45pm	LUNCH
3	12.45am TO 2.4pm	Accessing User Onchip Peripherals
4	2.45pm to 3.00pm	TEA BREAK
5	3.00pm to 5.00pm	Software Development

#### Third Day Workshop on "PIC ARM and RTOS"

#### Date:01/08/2014

Sr.No.	Time	Contents		
2 10.00am to 12.00pm		<ul> <li>Introduction to Operating Systems and Real time Operating Systems</li> <li>Fundamentals of operating system</li> <li>Process Management</li> </ul>		
3	12.00am to 12.45pm	LUNCH		
4	12.45am TO 2.4pm	<ul><li>Thread Management</li><li>Memory Management</li></ul>		

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

		Kernel Architecture
5	2.45pm to 3.00pm	TEA BREAK
6	3.00pm to 5.00pm	<ul> <li>Kernel Architecture</li> <li>Task /Process control subsystems</li> <li>Task Scheduling in Embedded System</li> </ul>

#### Fourth Day Workshop on "PIC ARM and RTOS"

#### Date:02/08/2014

Sr.No.	Time	Contents			
2	10.00am to 12.00pm	<ul> <li>Embedded/FREE-RTOS/Real-Time Operating Systems Concepts</li> <li>RTOS and Its features</li> <li>RTOS Features</li> </ul>			
3	12.00am to 12.45pm	LUNCH			
4	12.45am TO 2.4pm	<ul> <li>RTOS Architecture of Kernel</li> <li>Different types of RTOS and Popular RTOS</li> <li>Tasks and task Schedule</li> </ul>			
5	2.45pm to 3.00pm	TEA BREAK			
6	3.00pm to 5.00pm	Software Development			

#### Fifth Day Workshop on "PIC ARM and RTOS"

#### Date:04/08/2014

Sr.No.	Time	Contents
2	10.00am to 12.00pm	<ul> <li>Training on PIC</li> <li>LED interfacing with PIC</li> <li>Keyboard interfacing with PIC</li> </ul>
3	12.00am to 12.45pm	LUNCH
4	12.45am TO 2.4pm	<ul> <li>Training on ARM</li> <li>LCD interfacing with ARM</li> <li>Seven Segment Display interfacing with ARM</li> </ul>
5	2.45pm to 3.00pm	TEA BREAK
6	3.00pm to 5.00pm	<ul><li>Question Answer</li><li>Feedback</li></ul>

Workshop Coordinator



#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

#### WORKSHOP REPORT

**DEPARTMENT**: E&TC

CLASS: TE & BE

NAME OF GUEST: Mr. Aniket Mullur

FROM: Honeywell India Pvt Ltd

TITLE/TOPIC: "PIC, ARM and RTOS".

**DATE**: 30<sup>th</sup> July 2014 – 04<sup>th</sup> Aug 2014 **DURATION OF SESSION**: 5 days

STUDENT/ STAFF PRESENT: 90/9

**OBJECTIVE:** The main objective is to learn the basics of low-cost and power efficient PIC, ARM 7 microcontroller. Introduce the outline architecture of PIC18FSS and ARM7 microcontroller including basics of pipelines, registers, exception modes, etc. Also how to set up and customize a microcontroller development environment and how to write programs that interact with other devices. Also to provide an introduction to the theory, structure and practice of real-time operating systems

**DESCRIPTION:** The PIC was designed to improve the performance of I/O operations from a computer's peripheral devices. It works as a standard microcontroller that has small processors, memory, registers and storage. Typically, a PIC enhances I/O operations from a peripheral devices by separating I/O-based programs and data from the core central processing unit (CPU).

A PIC has a built-in data memory, data bus and dedicated microprocessor for processing all I/O functions and processes. It consists of temporary and permanent storage mechanisms, in the form of random access memory (RAM) and erasable programmable read-only memory (EPROM), where RAM stores data/processes that are used and EPROM stores created values. It also may contain a flash memory, which is used to perform multiple instances of READ, WRITE and ERASE functions.

The Advanced RISC Machine has several microcontroller families among which ARM7 are the longest serving ARM processors. The ARM7 CPU core based microcontroller is the most popular 32-bit embedded processor which features a small microcontroller with low power consumption. We introduce students with the Philips' LPC2000 ARM7 based microcontroller, the first standard microcontroller to integrate ARM7 and Philips' new memory acceleration module. ARM architecture is used to almost every embedded application ranging from automotive communications protocol to medical devices and security systems.

DTE:6324 SPPU:4071

Pune

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist-Pune (Maharashtra)

A real-time operating system (RTOS) is an <u>operating system</u> that guarantees a certain capability within a specified time constraint. For example, an operating system might be designed to ensure that a certain object was available for a robot on an assembly line. In what is usually called a "hard" real-time operating system, if the calculation could not be performed for making the object available at the designated time, the operating system would terminate with a failure. In a "soft" real-time operating system, the assembly line would continue to function but the production output might be lower as objects failed to appear at their designated time, causing the robot to be temporarily unproductive. Some real-time operating systems are created for a special application and others are more general purpose

**CONCLUSION:** After workshop students are able to implement hardware of the PIC and ARM7 microcontrollers, understand integrated peripherals based on I/O functions, examples of internal peripheral software drivers. They are able to know concept of pipelines, registers and exception modes, instruction set. Also students understand the concept and application of RTOS. Students are also able to understands software development flow and working with projects.

#### PHOTOS DURING SESSION





Students during Workshop

Pati Shival

Prof. M. S. Sapte

**Workshop Coordinator** 

Prof. T. M. Dudhane

HOD

**Head of Department** 

Dept. of E& TC Engineering Shri Chh. Shivajiraje Colleg of Jugg. Dhangawadi, Pune-41,200



#### Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

#### **Department of Computer Engineering**

#### SYLLABUS for Workshop on "PIC ARM and RTOS"

#### **PART A**

- Brief on PIC microcontroller
- Architecture of PIC
- Software Development

#### PART B

- Introduce the outline architecture of ARM7 microcontroller
- Accessing User On chip Peripherals
- Software development

#### PART C

- Introduction to Operating Systems and Real time operating systems
- Fundamentals of operating system
- Process management
- Thread management
- Memory Management
- Kernel Architecture
- Task/Process Control Subsystems
- Task Scheduling in Embedded Systems

#### PART D

- Embedded/FREE-RTOS/real-time operating Systems concepts
- RTOS and its features
- RTOS Architecture of kernel
- Different types of RTOS and Popular RTOS
- Tasks and task Schedule
- Software Development

#### **PART E**

- Training on ARM
- LCD interfacing with ARM
- Seven Segment Display interfacing with ARM



।। प्रज्वन्तिनां ज्ञानमयः प्रदिषः ।।

Rajgad Dnyanpeeth's

#### Shri Chhatrapati Shiva College of Engineering

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Dr. Bhagyashree s. Patil

Hon. secretary

**Anantrao Thopte** Founder President

Ex. Education Minister Maharashtra State



Date: 04/08/2014

#### APPRECIATION LETTER

To. Mr. Aniket Mullur

Honeywell India Pvt Ltd

Pune

Respected Sir.

On behalf of the RD's Shri Chhatrapati Shivajiraje College Of Engineering, we wanted to express our appreciation to you for the Workshop on "PIC, ARM and RTOS". It was extremely informative, and participation illustrated the importance of this topic.

Honeywell India Pvt Ltd is an excellent firm, and we appreciate your personally taking time to provide us with the timely information.

Once again, thank you for making the workshop successful, and we appreciate your continued support.

Sincerely,

Workshop Coordinator

Prof. T. M. Dudhane HOD

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

#### Workshop on "PIC, ARM and RTOS"

#### Student Feedback Form

Students are required to rate the course on the following attributes using the 4 -point scale shown.

Course: [tick ( $\sqrt{}$ ) in the relevant cell]

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
	<ol> <li>Overall rating of the course content</li> </ol>	V			
2.	Course objectives were clear		V		
3.	Clarity and relevance of textual reading material		/		
	<ol> <li>The teacher was effective in communicating the content of the course</li> </ol>				
	<ol> <li>The teacher responded to questions in an informative, appropriate and satisfactory manner.</li> </ol>				
6.	Do you have any suggestions for future workshops that you would like us to organize?				
7.	Would you recommend this course to other students?				
Any	Other Comments-				

#### Workshop on "PIC ARM and RTOS"

#### Feedback Form Analysis

Students are required to rate the course on the following attributes using the 4 -point scale shown.

Course: [tick ( $\sqrt{\ }$ ) in the relevant cell]

Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
Overall rating of the course content	52.13%	20.60%	27.27%	
2. Course objectives were clear	50.00%	36.00%	14.00%	
<ol> <li>Clarity and relevance of textual reading material</li> </ol>	65%	15.78%	19.22%	
4. The teacher was effective in communicating the content of the course	38.12%	37.16%	24.72%	
<ol> <li>The teacher responded to questions in an informative, appropriate and satisfactory manner.</li> </ol>	72.00%	16%	11.89%	
TOTAL	55.45%	25.13%	19.42%	



Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING
Department of Electronics & Telecommunication
Academic Year(2014-15)

Class: TE
ARM RTOS Workshop on PIC

	21111111				Sign		
Sr.No.	Roll No	1 same of the student	30.7.14	31-7-14	1.8.14	2.8-14	4.8:14
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2	3302	ANANTPURI BHAGYASHREE A	Frontpor	and the second second	Arentpe	1	+ 1 14
3	3303	BHILARE BHAGYASHREE ANIL	AB	AA	AB	AB	AB
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5	3305	CHORAT KOMAL VITTHAL	Thosal	* rosal	Canosa	1 1	Annea
6	3306	CHORMALE DATTATRAYA D	Ochemic!	E D Chemical	AA	Dehamel	Pulamus
7	3307	DHAMAL SANJIVANI	Dhemals	phamal	Dhama)	-	Dhame
8	3308	DUDHANE AKSHAY ASHOK	Judhans	dudhar		Gudhane	Judhan
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53	3353	VARUDE AMRUT SURESH	AB	AB	AB	AB	AB
54	3354	WAGHMODE VIKRAM JAGANNATH	Veliran	Vierum	Whitan	Mour	Villeran
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Coordinator V





HOD

E & TC Engineering Dept.

Shri Chhatarapati Shivaji Raje
College Of Engineering, Dhangawadi,
Tal-Bhor, Dist-Pune, Pin-412206

# Rajgad Dnyanpeeth's Rajgad Dnyanpeeth Technical Campus SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Department of Electronics & Telecommunication Academic Year(2014-15) Class: TE RTOS

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Sr.No.	Roll No	i same of the Student	30.7.14	31-7-14	1.8.14	2.8-14	4.8:14
1	3301	AMARALE MAHESH ASHOK	Drive	Ame	Amye	Danie	Annie
2	3302	ANANTPURI BHAGYASHREE A	Transpar	and the second second	Arentpu	1	+1 14
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5	3305	CHORAT KOMAL VITTHAL	Thosal	* rosal	- Carola	1	Anneal
6	3306	CHORMALE DATTATRAYA D	Ochemid	o chemically	AA	Dehand	Puramus
7	3307	DHAMAL SANJIVANI	phemals	phamal	Dinama)	-	Dhame
8	3308	DUDHANE AKSHAY ASHOK	Dudhans	dudhar		Budhane	Judhan
9	3309	GAIK WAD MILIND HANUMANT	mugaikow	1	nugenker	Mugaike	
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12	3312	JEDHE AKSHAY SUBHASH	The	Techo	Telha	Trough Mc	50 14
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E&TC Engg. Deptt.

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46	3346	SURYAWANSHI SNEHAL ZUMBER	Sherry	Shehall	Suellar	Snetel	Snew
47	3347	SUTAR PALLAVI MOHAN	PSuter	PENTES	PSubar	Psulva	D Silva
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HOD

E & TC Engineering Dept.

Shri Chhatarapati Shivaji Raje
College Of Engineering, Dhangawadi,
Tal-Bhor, Dist-Pune, Pin-412206

#### Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE CQLLEGE OF ENGINEERING

Department of Electronics & Telecommunication
Academic Year(2014-15)
Class: BE
Subject: Workshop on PIC ARM RTOS

Sr.No.	Roll No.	Name of the Student	30-7-14	31-7-14	1-8.14	2 8.14	4-8-14
1	4301	AGAWANE MANOJ SHRIMANT	Liver	Eweek	Frus	Luce	Lucell
2	4302	BHILARE AKSHAY RAVINDRA	Ashilan	Ashran	ABhilam	Ashibore	ABhilea
3	4303	BHOSALE SWAPNIL TANAJI	Chasale	Brosch	Stord	Bhorde	Show
4	4304	DAHAKE VAISHNAVI SUNJJOY	1031	Charle	Thee	La	0
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6	4306	DHAGE VIKRAM SANJAY	P. BIN	P. P. D	Pipin	CiRw	De Kins
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8	4308	DHOBE AKSHAY PRATAP	DHobe	DHobe	DHobe	Hobe	DHobe
9	4309	DHONDE SIDDHESH VIJAY	K. Pw	12.700	K. D.w	K. D.w	1e-Deca
10	4310	DUDHANE AMRUTA S.	Amella	America	America	America	Amores
11	4311	GHATKAR RUSHIKESH ATMARAM	hind	Liver	freeh.	Wells	Proves
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38	4338	NEHETE ANUP GOPAL	Mehele	Adrebale	Archite	Archet	Anchek
39	4339	NIKAM SHWETA SARJERAO	Muns	Mems	Nheins	Alberry.	Nihoms
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E&TC Engg. Deptt.

Coordinator





MOD

E & TC Engineering Dept.

Shri Chhatarapati Shivaji Raje
College Of Engineering, Dhangawadi,
Tal-Bhor, Dist-Pune, Pin-412206

## Shri Chhatrapati Shivajiraje College of Engineering



# CERTIFICATE

This is to certify that Mr. Tedhe Akshay Sub	hash
from T'E ENTC	has attended
5 day's Workshop on "PIC ARM a	nd RTOS" at this
College on 30/07/2014 to 04/08/2014.	





Principal

# ACADEMIC YEAR 2015-16



# Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

**Department of Computer Engineering** 

Date: 18/08/2015

#### **NOTICE**

All Final year students are hereby informed that One week Workshop on "Career Growth and Opportunities in CCNA" has been organized from 21<sup>th</sup> Aug. 2015 at 10.00 am. All are instructed to be present for the same.



Bhoguan Prof. B.D.Thorat

HOD

Head of Department

Dept. of Computer Engineering

Shri Chh. Shivajiraje College of Engg.

Dhangawadi, Pune-412206

।। प्रज्यन्तिनः ज्ञानमयः प्रदिषः ।।

Rajgad Dnyanpeeth's

#### Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil Hon. secretary

Anantrao Thopte
Founder President
Ex. Education Minister
Maharashtra State



#### INVITATION LETTER

Date: - 12/08/2015

To,

Mr. Gajendra Patel

Routermania Pvt. Ltd.,

Pune.

Subject: Invitation for conducting One weekWorkshop ON "Career Growth and Opportunities in CCNA"

Respected Sir,

This gives Department of Computer Engineering of SCSCOE, great pleasure to request you to conduct One week workshop on "Career Growth and Opportunities in CCNA" for final year students in RD'S SCSCOE, Dhangawadi. We will be thankful to you if you can schedule it from 21<sup>st</sup> August 2015.

Waiting for your positive reply.

Roceived



HOD (Prof. B.D.Thorat)

Head of Department

Dept. of Computer Engineering
Shri Chh Chinaile Callege of Engg.
Dia 41,206

।। प्रज्यनिनां ज्ञानमयः ग्रदिषः ।।

Rajgad Dnyanpeeth's

#### Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil Hon. secretary

**Anantrao Thopte** Founder President Ex. Education Minister Maharashtra State



#### CONDUCTION LETTER

Date: - 21/08/2015

To

Mr. Gajendra Patel

Routermania Pvt. Ltd.,

Pune.

We express our immense gratitude for having you at our college to conduct a fabulous sessions on "Career Growth and Opportunities in CCNA". It was our pleasure for having a person like you at our Institute. We take this opportunity to tell you this with pride that our students thoroughly enjoyed your entire sessions. We would like to know if you ever need our support.

Thank you so much.

Received



(Prof. B.D. Thorat)

Head of Department Dept. of Computer Engineering Shri Chh. Shivajirale College of Engg. Dhangawadi, Pune-412206



#### Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

#### **Department of Computer Engineering**

#### Report of Workshop On "Career Growth and Opportunities in CCNA"

<u>DEPARTMENT</u>: Computer Engineering

RESOURCE PERSON : Mr. Gajendra Patel

(Routermania Pvt. Ltd.)

TITLE/TOPIC : "Career Growth and Opportunities in CCNA"

DATE : 21/08/2015 to 26/08/2015

DURATION OF EVENT : 10.00 AM to 5.00 PM

STUDENT PRESENT : 22

<u>CO-ORDINATOR</u>: Prof. D. H. Dewarde

<u>PROGRAM OBJECTIVE</u>: Main Objective was to explore the students what exactly is CCNA and the platform to showcase the ideas for new innovative projects in association with industry & its applications.

#### **CONTENTS**

- 1. Introduction of CCNA
- 2. Current Networking Scenarios
- 3. Networking companies Expectations from students
- 4. How to face Networking Company Interviews
- 5. Different Levels of CCNA and its modules
- 6. Question & Answer

**PROGRAM OUTCOME**: CCNA provides a comprehensive introduction to deploying Router and switches in Computer networks. Students have learnt to identify the major components of a computer system, to define basic computer and networking terminology, and to describe the benefits and functions of the OSI reference model.

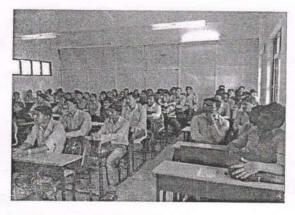
#### PHOTO'S DURING SESSION:



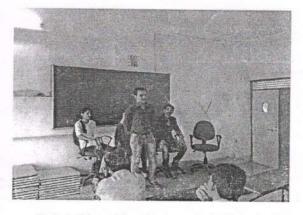
Prof. T.M.Dudhane Guide the Students



Prof. D.U.Dalavi Felicitate H.R Manager Miss Anita Rajput



B.E Class During The Seminar



Technical Expert from Routermania Guide the Student

Asst.Prof D.H. Dewarde

**Event Co-ordianator** 



Brogwans Prof. B.D. Thorat

HOD H.O.D

DEPIT. OF COMPUTER ENGG. RDTC, Shri Chhatrapati Shivajiraje College of Engineering, Dhangwadi, Pune- 412206.



#### Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

#### **Department of Computer Engineering**

#### Syllabus of Workshop on "Career Growth and Opportunities in CCNA"

#### PART A

#### Introduction to CCNA:

- Compare and contrast OSI and TCP/IP models.
- Compare and contrast TCP and UDP protocols.
- Compare and contrast network topologies
- Star
- Mesh
- Hybrid
- IP address Types

#### PART B

- LAN Switching Technologies
- Interpret Ethernet frame format
- Describe the benefits of switch stacking and chassis aggregation

#### **PART C**

#### Routing Technologies

- Describe the routing concepts
- Packet handling along the path through a network
- Forwarding decision based on route lookup
- Frame rewrite

#### Interpret the components of a routing table

- Prefix
- Network mask
- Next hop
- Routing protocol code
- Administrative distance
- Metric
- Gateway of last resort

#### PART D

#### WAN Technologies

- Point-to-point
- Hub and spoke
- Full mesh
- Single vs dual-homed

#### WAN access connectivity options

- MPLS
- Metro Ethernet
- Broadband PPPoE
- Internet VPN (DMVPN, site-to-site VPN, client VPN)





# Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206. Department of Computer Engineering

## Workshop on "Career Growth and Opportunities in CCNA" Student Attendance Sheet

Sr. No.	Name of Student	21/08	3/2015	22/08	8/2015	23/0	8/2015
		Session1 Sign	Session2 Sign	Session1 Sign	Session2 Sign	Session1 Sign	Session2 Sign
1	Attar Tosif	TAHLOR	TAHar	THHAR	TAHar	Tiphar	PAHAR
2	Bandal Tejashri	Bardell	Bandel T	BandalT	BandalT	PardolT	Bandett
3	Benke Sachinkumar	Benke	Senke_	Banke	Bente	Benke	Sen Ke
4	Bhise Vaishanavi	MARISE	LATERISE	MARRISE	VHRICE	UHBlise_	VHB lie
5	Bhosale Yogita	Ystasak	Blood	YBhard	Y. Bhosh	<b>Y</b> Bhask	YBhos
6	Ajay Borade	Porade	Boul	-	Porele		Bras
7	Chikane omkar	Dukanco	Quitaneo	dikano	The karo	dukaneo	r lukaner
8	Gorade Dattatray	Datta	Datta	Datta	Datter	Datta	Dath
9	Dhumal Aniket	Abunal	Adhumal	Adhuma	Adhumal	Adhumal	Adhuma
10	Gade Shraddha	Cade	Ceade	Ceado	Gada	Skell	Ceade
11	Khopade Priyarani	Tapade.	Typode		Flypade	Hupate	Hapada
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# Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206. Department of Computer Engineering

## Workshop on "Career Growth and Opportunities in CCNA" Student Attendance Sheet

Sr. No.	Name of Student	24/08	/2015	25/08	/2015	26/08/2015		
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#### Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

Email: scscoe@gmail.com Website: www.rajgad.edu.in

#### **Department of Computer Engineering**

#### Workshop on "Carger Growth and Opportunities in CCNA"

#### Student Feedback Form

Students are required to rate the course on the following attributes using the 4 -point scale shown.

Course: Itick (\( \sigma \) in the relevant celll

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
1.	Overall rating of the workshop content				-
2.	The teacher was effective in communicating the content of the workshop				
3.	The teacher responded to questions in an informative, appropriate and satisfactory manner.				
4.	Do you have any suggestions for future workshops that you would like us to organize?				
5.	Would you recommend this course to other students?	Yes, I	م اانص	ecomma	nd
Any	Other Comments-				

Thank you for participating, we appreciate your feedback!!!!!!!



# Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore High-way, Dhangawadi, Tal. Bhor, Dist. -Pune. Pincode - 412206. (M.S.), India

Telefax.: 02113-282456 / 556 / 656 Email: scscoe@gmail.com Website: www.rajgad.edu.in



# CERTIFICATE

This is to certify that Nakw Sornaik	
from Dept. of Computer. Engg.	has attended
One Week Workshop on Career Growth O	pportunial this
College on 21st to 26th Aug 2015	

Co - Ordinator



Principal

# Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore High-way, Dhangawadi, Tal. Bhor, Dist. -Pune. Pincode - 412206. (M.S.), India

Telefax.: 02113-282456 / 556 / 656 Email: scscoe@gmail.com Website: www.rajgad.edu.in



# CERTIFICATE

This is to certify that Priyanka Bhosale		
from Dept. of Computer Engg.	as atte	nded
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College on 21st to 26th Aug 2015	38	*

Co - Ordinator

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Principal

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

#### Department of Electronics and Telecommunication Engineering

Date: 18th Aug 2015.

#### **NOTICE**

All B.E. students are hereby informed that Department of E&TC Engineering has scheduled Workshop on "Career Growth and opportunities in CCNA" from 21<sup>st</sup> Aug 2015 to 11<sup>th</sup> Oct 2015 (every Saturday and Sunday). All are informed to attend the same.

Venue: BE Classroom

Date: 21th Aug 2015 to 11th Oct 2015

Time: 11:00 a.m. to 2:00 p.m.

Prof.D.U.Dalavi Coordinator DTE:6324
SPPU:4071
Dhang awadi
Pune
412206
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Prof.T.M.Dudhane HOD

Head of Department
Dept. of E& TC Engineering
Shri Chh. Shivajiraje College of Enga.

Dhangawadi, Pune-412206

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist-Pune (Maharashtra)

#### WORKSHOP REPORT

DEPARTMENT: E&TC

CLASS: B.E-2015

NAME OF GUEST/EXPERT: Mr. Gajendra Patel

FROM: Router mania Pvt. Ltd

TITLE/TOPIC: "Career Growth and Opportunities in CCNA"

DAY & DATE: Friday -21.8.2015

**DURATION OF SESSION: 30 hrs** 

STUDENT/ STAFF PRESENT: 46

CO-ORDINATOR: Prof. D.U.Dalavi.

CO-COORDINATOR: Prof. L.M.Sagale

<u>OBJECTIVE</u>: Main Objective was to explore the students with what exactly are CCNA and the platform to showcase the ideas for new innovative projects in association with industry & its application.

DESCRIPTION: The Rajgad Dnyanpeeth's Technical Campus, Shree Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Department of Electronics and Telecommunication organized 15 days workshop under Student Welfare Activities from 21/08/2015 to 04/01/2015 in B.E E&TC Class Room which is on "Carrier Growth and Opportunities in CCNA" for B.E E&TC Students to help them to understand the Industry expectation and Importance of CCNA in Networking Field. For the same the resource person was Mr. Gajendra Patel who has 8 Years Industry Experience and who is Director of Router mania Tech. which is purely Networking Base Company located in Dhankawadi, Pune since year 2006. Along with him Company H.R manager Miss. Anita Rajput and Two Technical experts also present for the workshop. Principal Dr.S.B.Patil issued a notice about the seminar on 18/07/2015. Asst.Prof.D.U.Dalavi is appointed as a Event Coordinator for the same. Asst. Prof. M. S. Sapte. Host the event, Prof. T. M. Dudhane who is HOD of the E&TC Department and Asst. Prof. D.U. Dalavi Felicitate the Guest and shares the benefit of such kind of Seminar in Student life. 46 Students from B.E Class attended this seminar.

Mr.Gajendra Patel sir delivered the seminar up to 2 Hours, in that following are the Points he covered.

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#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

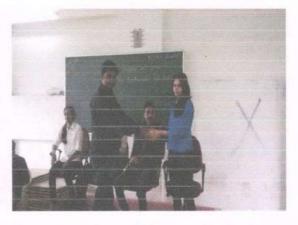
- · General Introduction of CCNA.
- Current Networking Companies Scenario.
- Networking Companies Expectation from the students.
- · How to Face Networking Company Interviews.
- · Different Levels of CCNA and its Modules.
- At the last Interaction with Student.

<u>CONCLUSION</u>: CCNA provides a comprehensive introduction to deploying Router and Switches in computer networks. Students will learn to identify the major components of a computer system, to define basic computer and networking terminology, and to describe the benefits and functions of the OSI reference model. It really gives us an immense pleasure to be with associated with them.

#### PHOTO'S DURING SESSION:



Prof. T.M. Dudhane Guide the Students



Prof. D.U. Dalavi Felicitate H.R Manager Miss Anita Rajput

Prof L.M. SAGALE

**Event Co-Coordinator** 

Prof D.U.Dalavi

**Event Co-ordianator** 

Prof. T.M.DUDHANE

HOD

**Head of Department** 

Dept. of E& TC Engineering Shri Chh. Shivajiraje College of Filiag. Dhangawada Figure 41:2200





#### Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

#### **Department of E&TC Engineering**

#### Syllabus of Workshop on "Career Growth and Opportunities in CCNA"

#### PART A

#### Introduction to CCNA:

- Compare and contrast OSI and TCP/IP models.
- Compare and contrast TCP and UDP protocols.
- Compare and contrast network topologies
- Star
- Mesh
- Hybrid
- IP address Types

#### PART B

- LAN Switching Technologies
- Interpret Ethernet frame format
- Describe the benefits of switch stacking and chassis aggregation

#### **PART C**

#### Routing Technologies

- Describe the routing concepts
- Packet handling along the path through a network
- Forwarding decision based on route lookup
- Frame rewrite

#### Interpret the components of a routing table

- Prefix
- Network mask
- Next hop
- Routing protocol code
- Administrative distance
- Metric
- Gateway of last resort

#### PART D

#### WAN Technologies

- Point-to-point
- Hub and spoke
- Full mesh
- Single vs dual-homed

#### WAN access connectivity options

- MPLS
- Metro Ethernet
- Broadband PPPoE
- Internet VPN (DMVPN, site-to-site VPN, client VPN)



### Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil

Hon. secretary

Anantrao Thopte
Founder President
Ex. Education Minister
Maharashtra State



Date: 17th Aug 2015.

#### **INVITATION LETTER**

To, Mr.Gajendra Patel Routermania Pvt.Ltd Pune-43.

**Subject:** Invitation for conducting expert lectures on "Career Growth and opportunities in CCNA" from 21<sup>st</sup> Aug 2015 to 11<sup>th</sup> Oct 2015.

Dear Sir,

It gives us immense pleasure to announce that RD's Shri Chhatrapati Shivajiraje College of Engineering, Department of E&TC Engineering have scheduled a expert lectures for "Career Growth and opportunities in CCNA" from 21<sup>st</sup> Aug 2015 to 11<sup>th</sup> Oct 2015 for students of our Institute.

It gives us great pleasure to invite you as a guest speaker for above said lecture.

Please, accept this invitation and acknowledge the same.

Thanking You,

Yours truly,

Prof.D.U.Dalavi Coordinator Rainel Gate.

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Pune

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Co-ordinator

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E & TC Engineering Dept.

Shri Chhatarapati Shivaji Raje

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## Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil

Hon, secretary

Founder President Ex. Education Minister Maharashtra State



Date: 11th Oct 2015.

#### APPRECIATION LETTER

To, Mr.Gajendra Patel Routermania Pvt.Ltd Pune-43.

On behalf of the Department of E&TC Engineering of RDTC's Shri Chhatrapati College of Engineering Dhangwadi, Pune, we wanted to express our appreciation to you for the Workshop on "Career Growth and opportunities in CCNA" from 21st Aug 2015 to 11th Oct 2015. It was extremely informative and we appreciate your personally taking time to provide us with the timely information. Definitely all the participants have benefited from your talk and we are very much thankful to you for making it convenient to be here at our place.

Once again, thank you for making the expert lecture successful, and we appreciate your continued support in future.

Sincerely,

Prof.D.U.Dalavi Coordinator

Recieved

Dnyanpee DTE:6324 SPPU:4071 Dhang wadi Pune 412206 ti Shivajirale

Prof.T.M.Dudhane

Head HOD -ment

Dept. of L& TC Engineering Shri Chh. Shivajiraje Codege of Engg. Dhangawadi, Pune-412206

#### Workshop on "Carrier Growth and Opportunities in CCNA"

#### Feedback Form Analysis

Students are required to rate the course on the following attributes using the 4 -point scale shown.

Course: [tick ( $\sqrt{}$ ) in the relevant cell]

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
1.	Overall rating of the course content	54.27%	17.03%	28.70%	
2.	Course objectives were clear	65.11%	21.00%	13.89%	
	Clarity and relevance of textual reading material	80%	6.78%	13.00%	
4.	The teacher was effective in communicating the content of the course	42.00%	34.00%	24.00%	
6	The teacher responded to questions in an informative, appropriate and satisfactory manner.	66.11%	20%	13.89%	
	TOTAL	61.54%	19.76%	18.70%	ĭ



#### Workshop on "CCNA"

#### Student Feedback Form

Students are required to rate the course on the following attributes using the 4-point scale shown.

Course: [tick (\sqrt) in the relevant cell]

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
	Overall rating of the course content				
2.	Course objectives were clear				
3.	Clarity and relevance of textual reading material		~		
	4. The teacher was effective in communicating the content of the course	/			
	<ol> <li>The teacher responded to questions in an informative, appropriate and satisfactory manner.</li> </ol>	~			
	Do you have any suggestions for future workshops that you would like us to organize?				
7.	Would you recommend this course to other students?				
An	y Other Comments-				



Rajgad Dnyanpeeth's

## Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore High-way, Dhangawadi, Tal. Bhor, Dist. -Pune. Pincode - 412206. (M.S.), India

Telefax.: 02113-282456 / 556 / 656 Email: scscoe@gmail.com Website: www.rajgad.edu.in



## GERTIFICATE

This is to certify that Bandal Kishori
from BE ELTC has attended
Woodshop on Coreer Growth and at this opportunities in CCNA
College on 21st Aug 15 to 11th 10-15

Co - Ordinator

Principal

# ACADEMIC YEAR 2016-17

#### Rajgad Dnyanpeeth's

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

#### Department of Electronics and Telecommunication Engineering

Date: 18th July 2016.

#### **NOTICE**

All B.E. students are hereby informed that Department of E&TC Engineering has scheduled Workshop on "Career Growth and opportunities in CCNA" from 22<sup>nd</sup> July 2016 to 11<sup>th</sup> Sep 2016. All are informed to attend the same.

Venue: 209, Seminar Hall

Date: 22<sup>nd</sup> July 2016 to 11<sup>th</sup> Sep 2016

Time: 11:00 a.m. to 2:00 p.m.

Prof.D.U.Dalavi Coordinator

DTE-6324
SPH-407-1
Dilater wads
Pune
412206

Prof. P.M. Dudhane Head of Department

Dept. of E& TC Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206 Rajoro Dhyanjeeths

#### Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil Hon secretary Anantrao Thopte
Founder President
Ex: Education Ministe



#### Department of Electronics and Telecommunication Engineering

Date: 15th July 2016.

#### INVITATION LETTER

To, Mr.Gajendra Patel Routermania Pvt.Ltd Pune-43.

**Subject:** Invitation for conducting expert lectures on "Career Growth and opportunities in CCNA" from 22<sup>nd</sup> July 2016 to 11<sup>th</sup> Sep 2016.

Dear Sir,

It gives us immense pleasure to announce that RDTC's Shri Chhatrapati Shivajiraje College of Engineering, Department of E&TC Engineering have scheduled a expert lectures for "Career Growth and opportunities in CCNA" from 22<sup>nd</sup> July 2016 to 11<sup>th</sup> Sep 2016 for students of our Institute.

It gives us great pleasure to invite you as a guest speaker for above said lecture.

Shivajirai

Please, accept this invitation and acknowledge the same.

Thanking You,

Yours truly,

Prof.D.U.Dalavi Coordinator Recievad Caraber

Prof.T.M.Dudhane

Dept. of E& TC Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

#### Rajgad Dnyanpeeth's

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist-Pune (Maharashtra)

DEPARTMENT: E&TC

CLASS: B.E-2016

NAME OF GUEST/EXPERT: Mr. Gajendra Patel

FROM: Router mania Pvt. Ltd

TITLE/TOPIC: "Career Growth and Opportunities in CCNA"

<u>DAY & DATE</u>: Friday -22.7.2016

**DURATION OF SESSION: 30 hrs** 

STUDENT/ STAFF PRESENT: 35

CO-ORDINATOR: Asst. Prof. D.U.Dalavi.

CO-COORDINATOR: Asst. Prof. L.M.Sagale

OBJECTIVE: Main Objective was to explore the students with what exactly are CCNA and the platform to showcase the ideas for new innovative projects in association with industry & its application.

DESCRIPTION: The Rajgad Dnyanpeeth's Technical Campus, Shree Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Department of Electronics and Telecommunication organized 15 days workshop under Student Welfare Activities from 22/07/2016 to 11/09/2016 in B.E E&TC Class Room which is on "Career Growth and Opportunities in CCNA" for B.E E&TC Students to help them to understand the Industry expectation and Importance of CCNA in Networking Field. For the same the resource person was Mr. Gajendra Patel who has 8 Years Industry Experience and who is Director of Router mania Tech. which is purely Networking Base Company located in Dhankawadi, Pune since year 2006. Along with him Company H.R manager Miss. Anita Rajput and Two Technical experts also present for the workshop. Principal Dr.S.B.Patil issued a notice about the seminar on 18/07/2015. Asst.Prof.D.U.Dalavi is appointed as a Event Coordinator for the same. Asst. Prof. M.S. Sapte. host the event, Prof. T. M. Dudhane who is HOD of the E&TC Department and Asst. Prof. D.U. Dalavi Felicitate the Guest and shares the benefit of such kind of Seminar in Student life. 40 Students from B.E Class attended this seminar.

Mr.Gajendra Patel sir delivered the seminar up to 2 Hours, in that following are the Points he covered.

- General Introduction of CCNA.
- Current Networking Companies Scenario.
- Networking Companies Expectation from the students.
- How to Face Networking Company Interviews.
- · Different Levels of CCNA and its Modules.
- At the last Interaction with Student.

CONCLUSION: CCNA provides a comprehensive introduction to deploying Router and Switches in computer networks. Students will learn to identify the major components of a computer system, to define basic computer and networking terminology, and to describe the benefits and functions of the OSI reference model. It really gives us an immense pleasure to be with associated with them.

#### PHOTO'S DURING SESSION:



B.E Class During The Seminar



Technical Expert from Routermania Guide the Student

Prof L.M. SAGALE

**Event Co-Coordinator** 

Prof D.U.Dalavi

**Event Co-ordianator** 

Prof. T.M.DUDHANE

HOD

**Head of Department** 

Dept. of E& TC Engineering
Shri Chh. Shivajiraje College of Engg.
Dhangawadi, Pune-412266





#### Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

#### **Department of E&TC Engineering**

#### Syllabus of Workshop on "Career Growth and Opportunities in CCNA"

#### PART A

#### Introduction to CCNA:

- Compare and contrast OSI and TCP/IP models.
- Compare and contrast TCP and UDP protocols.
- Compare and contrast network topologies
- Star
- Mesh
- Hybrid
- IP address Types

#### PART B

- LAN Switching Technologies
- Interpret Ethernet frame format
- Describe the benefits of switch stacking and chassis aggregation

#### **PART C**

#### Routing Technologies

- Describe the routing concepts
- Packet handling along the path through a network
- Forwarding decision based on route lookup
- Frame rewrite

#### Interpret the components of a routing table

- Prefix
- Network mask
- Next hop
- Routing protocol code
- Administrative distance
- Metric
- Gateway of last resort

#### PART D

#### WAN Technologies

- Point-to-point
- Hub and spoke
- Full mesh
- Single vs dual-homed

#### WAN access connectivity options

- MPLS
- Metro Ethernet
- Broadband PPPoE
- Internet VPN (DMVPN, site-to-site VPN, client VPN)

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Department of Electronics & Telecommunication Engineering

#### CCNA Workshop 2016-17

Class: BE E&TC

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Co-ordinator

HOD E & TC Engineering Dept.
Shri Chhatarapati Shivaji Raje
College Of Engineering, Dhangawadi,
Tal-Bhor, Dist-Pune, Pin-412206



#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Department of Electronics & Telecommunication Engineering

CCNA Workshop 2016-17

Class: BE E&TC

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ordinator

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HOD

E & TC Engineering Dept.

Shri Chhatarapati Shivaji Raje

College Of Engineering, Dhangawadi,

Tal-Bhor, Dist-Pune, Pin-412206

#### Workshop on "CCNA"

#### Student Feedback Form

Students are required to rate the course on the following attributes using the 4 -point scale shown.

Course: [tick ( $\sqrt{\ }$ ) in the relevant cell]

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
	<ol> <li>Overall rating of the course content</li> </ol>	./			
2.	Course objectives were clear				
3.	Clarity and relevance of textual reading material	~			
	<ol> <li>The teacher was effective in communicating the content of the course</li> </ol>		~		
	5. The teacher responded to questions in an informative, appropriate and satisfactory manner.				
6.	Do you have any suggestions for future workshops that you would like us to organize?		_		
7.	Would you recommend this course to other students?	Y	es		
Any	Other Comments-				77
,	Other Comments-	_			



#### Workshop on "Carrier Growth and Opportunities in CCNA"

#### Feedback Form Analysis

Students are required to rate the course on the following attributes using the 4-point scale shown.

Course: [tick ( $\sqrt{}$ ) in the relevant cell]

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
1.	Overall rating of the course content	41.08%	30.19%	28.73%	3
2.	Course objectives were clear	58.11%	24.00%	17.89%	
3.	Clarity and relevance of textual reading material	67.12%	16.10%	16.78%	
4.	The teacher was effective in communicating the content of the course	38.11%	38.00%	23.89%	
5.	The teacher responded to questions in an informative, appropriate and satisfactory manner.	52.11%	34%	13.89%	
	TOTAL	51.31%	28.46%	20.24%	



## Shri Giliatrapati Shvafiraje Gollege of Lingingering

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#### Department of Electronics and Telecommunication Engineering

Date: 11th Sep 2016.

#### APPRECIATION LETTER

To, Mr.Gajendra Patel Routermania Pvt.Ltd Pune-43.

On behalf of the Department of E&TC Engineering of RDTC's Shri Chhatrapati College of Engineering Dhangwadi, Pune, we wanted to express our appreciation to you for the Workshop on "Career Growth and opportunities in CCNA" from 22<sup>nd</sup> July 2016 to 11<sup>th</sup> Sep 2016. It was extremely informative and we appreciate your personally taking time to provide us with the timely information. Definitely all the participants have benefited from your talk and we are very much thankful to you for making it convenient to be here at our place.

Once again, thank you for making the expert lecture successful, and we appreciate your continued support in future.

Sincerely,

Prof.D.U.Dalavi Coordinator

Recieved ad Dayanpe Shivajiraje

Prof.P.M.Dudhane Head of Department

Dept. of E& TC Engineering Shri Chh. Shivajiraje College of Engg. Dhangawagi, Pune-412206

॥ प्रज्यालन्। ज्ञानमयः प्रद्रिपः ॥,

Rajgad Dnyanpeeth's .

### Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree's. Patil Hon. secretary

Anantrao Thopte
Founder President
Ex. Education Minister
Maharashtra State



#### Department of Mechanical Engineering

Date: 15/02/2018

#### INVITATION LETTER

To,

The Head,

ARK Techno Solution &

Robocart.com

E-Cell IIT Bombay.

Subject: Invitation for conducting workshop on "Design, Assembly & Testing of Quad Copter".

Dear Sir,

On behalf of Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering, I am very pleased to have the honor of inviting you to conduct workshop on "Design, Assembly & Testing of Quad Copter". We will be arranging the workshop as per your convenience. We are expecting approximately 65-70 students and faculty from the Mechanical and E&TC Department.

Please let us know if you will require any audio-visual equipment or additional technological support. I look forward to meeting you at our Campus.

Best wishes

Thanking You,

Recived



Prof. S. K. Pawar

Head Of Department

Dept. of Mechanical Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

#### Rajgad Dnyanpeeth's

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

#### Department of Mechanical Engineering

#### NOTICE

Date: 19/09/2016

All the students of SCSCOE are hereby informed that Department of Mechanical Engineering is going to organizing Four Days workshop on QUAD-COPTER from 28<sup>th</sup> September to 1<sup>st</sup> October 2016. Participant's students will learn how to make Quad-Copter within Four Days and will get certificate from ARK Techno Solution & Robocart in Association with E-cell, IIT Bombay.

The registration fees per student is Rs. 600/-. Those who are interested should urgently contact along with registration fees to Prof. S. K. Pawar (Mech. Dept.).

DTE:6324
SPPU:4071
Dhangawadi
Pune
412206

Prof. S. K. Pawar

Head of Department
Dept. of Mechanical Engineering
Shri Chh. Shivajiraje College of Engg.
Dhangawadi, Pune-412206

#### Rajgad Dnyanpeeth's

#### SHRI CHATTRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune (Maharashtra)

#### REPORT OF FOUR DAYS NATIONAL LEVELWORKSHOP ON QUAD COPTER

DEPARTMENT: Mechanical Engineering

CLASS: TE

NAME OF TRAINER: Mr. Harshad Pandey

FROM: ARK techno solutions & Robokart .com, in association with E - cell IIT Bombay

TITLE OF SESSION: Design, Assembly & Testing of Quad Copter the UAV.

DAY & DATE: 28th Sept. to 01st Oct. 2016

**DURATION OF SESSION: Four Days** 

STUDENTS PRESENT: 71

CORDINATOR: Prof. D. D. Zagade.

OBJECTIVE: To bring participant students in a position to Design, Assembly & Testing of Quad Copter.

DISCRIPTION: ARK Technosolutions again comes up with a new idea to encourage students on very interesting and upcoming topic of Quad Copter. It is basically to clear a concept of how to an aero model flies. To get into much deeper of a aero model this course will teach how to start building a Quad Copter. The measured contents of this course are Embedded System Design, Introduction to Controllers and Embedded system Design, Working Principle of Quad Copter. Mr. Harshad Pandey has explained constructional concepts of Quad Copter frame, Operation of Gyroscopes Micro-controller, controllers & embedded system design, considerations & concepts of stability, Electronic speed-controller (ESC), construction of Quad Copter, Ghz Radio communication, ISP flashing techniques, Gain potentiometer, BLDC motor, Flying session.

#### PHOTO'S DURING SESSION:



Quad Copter Workshop Ingauration Speech By Prof. S. K. Pawar (HOD Mechanical

SPPU:4071
Eputhangawadi
Pune

412206



Photo Session During Actual Workshop

CONCLUSION: The knowledge about all aspects of Electronics, Mechanics, Design of machine elements, Programming and Communication is really useful to the all participant students.

(Prof. D. D. Zagade) (Coordinator) DTE:6324

\* DTE:6324

\* SPPU:4071

Dhangawadi

Pune

412206

\* Shivajiraje O

(Prof. S. K. Pawar)

Head of Department
Dept. of Mechanical Engineering

Shri Chh. Shivajiraje College of Engg Dhangawadi, Pune-412206



#### Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

#### **Department of Mechanical Engineering**

#### SYLLABUS for Workshop on "Design, Assembly & Testing of Quad Copter"

#### PART A

#### Introduction

- Embedded system design
- Working principle
- Constructional concepts Quad copter frame
- Materials used
- Developing of quad frame models
- Types of frame structure & consequences

#### **PART B**

#### **Ghz Radio Communication**

- Radio Transmitter
- Transmitter Controls
- Controls corresponding to Stabilization techniques
- Power limitations
- Types of power resources
- Frequency selection
- Antenna arrangement
- Coverage consideration
- Orientations of Quad in terms of coverage distance
- Radio receiver
- Number of channels
- Effective utilization of channels
- Connection consideration of various configurations
- Multi rotor stabilization controller

#### **PART C**

- Considerations & Concepts of Stability component Explanation of the board layout
- Operation of Gyroscopes Microcontroller operation variations in output of ESC
- Gain Potentiometers
- ISP flashing Techniques
- Electronic speed controller
- Ampere rating of ESC
- Input supply consideration
- Data signaling to ESC
- Programming ESC

#### **PART D**

#### **BLDC Motors**

- Wide varieties of motors
- Applications
- Driving of BLDC motors
- Characters, communication, Analysis & Evaluation methods
- Speed calculation Propellers
- Types of Propellers
- Suitable Propeller for right application
- Parts of Propeller

#### **PART E**

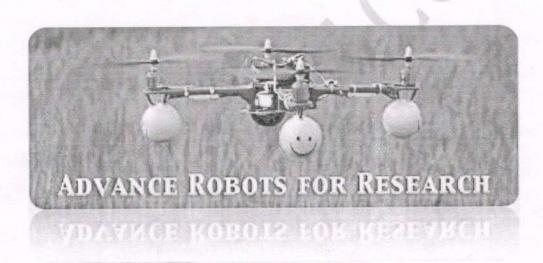
#### **Construction of Quad Copter**

- Components identification
- Complete assembling Simulation of flight in FMS
- Flying precautions
- Flying Session in open ground



"3Idiots Movie"

## QUADCOPTER



Real Image of Quad Copter you will working upon !!!



ARK Technosolutions again comes up with a new idea to encourage students on very interesting and upcoming topic of Quad copter. It is basically to clear a concept of how an aero model flies. To get into much deeper of a aero model this course will teach you how to start building an quad copter, what all constitutes to make an quad copter. In this course we will concentrate on all aspects of electronics, mechanics, programming and communication.

#### Content:

- > Embedded Systems Design
- > Introduction to Controllers and Embedded Systems Design
- > Working Principle
- > Constructional Concepts Quad copter Frame
  - · Materials used
  - · Designing concepts
  - · Hands on designing
  - Developing of quad frame models
  - · Types of frame structures & consequences
- > Ghz Radio Communication
  - · Radio Transmitter
  - Transmitter controls
  - Controls corresponding to Stabilization techniques
  - · Power limitations
  - · Types of power sources
  - Frequency Selection
  - Antenna arrangement
  - Coverage considerations
  - Orientations of Quad in terms of coverage distance
  - Radio Receiver
  - · Number of channels
  - Effective utilization of channels
  - Connection consideration of various configurations
  - Consequences of reception beyond coverage area
  - Multi Rotor Stabilization Controller
- > Considerations & Concepts of Stability Component Explanation of the board Basic layout of board
- Operation of Gyroscopes Microcontroller operation Variations in output of ESC



- > Gain Potentiometers
- > ISP Flashing Techniques
- Electronic Speed Controller (ESC)
  - Speed control Techniques
  - · Ampere Rating of ESC
  - · Input supply considerations
  - · Data Signaling to ESC
  - · Battery elimination operation of ESCs
  - · Choosing right ESCs for the right application
  - Constructional ideas of building your own ESC
  - Programming ESC

#### > BLDC Motors

- · Wide varieties of motors
- Difference of a Normal DC motor and BLDC motor
- Applications of BLDC motors
- Advantages of BLDC motors
- Driving a BLDC motor
- Characters, Commutation, Analysis & Evaluation methods
- Speed calculation Propellers
- Construction of Propellers
- · Types of propellers
- Suitable propeller for right application
- Parts of a propeller
- > Construction of Quad copter
  - Components Identification
  - Complete Assembling Simulation of flight in FMS
- > Flying precautions
- > Flying Session (10-15 Min's Flying for each group in open ground)

#### Certification:

Students will be certified jointly from ARK Technosolutions & Robokart.com



#### Workshop Benefits & Highlights:

- ✓ Learn & Interact with Engineer Trainer & get to know about Arduino, Sensors & All.
- ✓ Receive an unparalleled education on the art of building robots, Quadcopters & applications with personal one on one attention.
- ✓ Learn to make your own quadcopeter within 2 day's
- ✓ PowerPoint Presentation, Live Demos, Interactive Questions & Answer session & comprehensive material.

#### Target Audience:

- ✓ Students seeking career in robotics & aeronautical related Industry.
- ✓ All year students from Physics, Electronics, EXTC, Mechanical, Aeronautical engineering.

#### The fee include (KIT CONTENT)

#### ARKDUINO circuit board

- Micro Controller AT MEL AT mega 8
- · Operating Voltage -5V
- Input voltage 6V-20V
- Digital I / O pins 14 out of which 6 provide PWM
- · Analog Input Pins 8
- DC Current per I / O pin- 40mA.
- Flash Memory 16KB
- SRAM 1KB
- EEPROM 512Bytes
- · Clock Speed 16 MHz
- · USB-UART converter
- · Proper Indicator LED's
- USB/ EXT input voltage
- 5V output supply pins 3
- 3.3 V output supply pins 1
- Breadboard Compatibility (dimension of a 40 pin DIP IC)
- ✓ BO Motor
- ✓ Motor Driver
- ✓ Connecting Wires



#### Rajgad Dnyanpeeth's

#### RAJGAD DNYANPEETH TECHNICAL CAMPUS, DHANGAWADI.

Shri Chhatrapati Shivajiraje College of Engineering

Department of Mechanical Engineering

#### Attendance Sheet for Workshop on Quad-Copter

Sr. No.	Class	Name of Student Date	28/09/16	29/09/16	30/09/16	01/09/16
1	ТЕ МЕСН	AGAWANE OMKAR SURESH	dogow	Ogga	OB9 al	0837
2	ТЕ МЕСН	ANARASE TEJAS DILIP	Brarase	trasose	Marail	Arone
3	ТЕ МЕСН	AWALE SHEKHAR KISHOR	A CONTRACTOR	A.	A	OR-
4	TE MECH	BARVE SHAMRAO KAKASO	Barves-K	BancesK	Baziesk	Bar ves.k
5	TE MECH	BARVE SWAPNIL H	BIEL	BSH	BSN	Bort
6	ТЕ МЕСН	BHILARE TEJAS S	Pilaze TS	Bhilares.	BhilareTis	BhilareT-S
7	TE MECH	BUDGUDE AKASH DHARMAJI	Budgudens	Budgedons	Buolguoleno	Budgude,
8	ТЕ МЕСН	BUDGUDE NIKHIL GANESH	المراق	Più	Bis	Ris
9	ТЕ МЕСН	CHOUDHARI SAGAR P	CSP	SSP	CSP	CBP
10	ТЕ МЕСН	DESHMUKH SHEKHAR P	PSP.	DSP	PSP	DSP
11	TE MECH	GAIKWAD ASHISHKUMAR S	Garlinag	Dakood	Ti you	Dalwood
12	TE MECH	GIRE AKSHAY MAHADEV	CAAM	Capm	Can	Comm
13	TE MECH	JADHAV AJAY RAMDAS	702	1-	Jour	Jn
14	ТЕ МЕСН	JADHAV ROSHAN RAJENDRA	D.	D-	1	COR.
15	TE MECH	KHOPADE HRUSHIKESH J	KLON	Jewy .	kent	Kohn H
16	ТЕ МЕСН	KHUTWAD POOJA DILIP	Jungo	Jan PD	(RWP)	KMPD
17	TE MECH	KUMKAR ANIKET DILIP	Lin	12~	PN	12.
18	ТЕ МЕСН	MARATHE AKSHAY SUNIL	Ron	Agen	Ass.	Ass.
19	TE MECH	RAJE AKSHAY DHANANJAY	Apaje	Aloge	Alase	Maje
20	ТЕ МЕСН	RAVALEKAR PRATIK S	Par	Q~	Q.	@
21	TE MECH	SAKURDE GAURAV P	South	Sant	Sante	Sach
22	ТЕ МЕСН	SHINDE AKASH SHANKAR	blunds	thinds	Priede	Shirole
23	ТЕ МЕСН	SHIRAWALE SATISH SHARAD	Sud'shr	Southit	Stubishi	salishy
24	ТЕ МЕСН	VANE SAGAR BABASAHEB	1	A	PL	THE .
25	TE MECH	VETAL AKSHAY SANJAY	AKKV	Akki.V.	Akkir	Akkiv

Workshop Coordinator

Prof. D. D. Zagade



Head

Dept. of M+ODEngg.

Mechanical Engineering Dept
Shri Chhatrapati Shivajiran
College of Engineering
Dhangawadi Tal. Bhor
Dist. Pune - 412206

#### RAJGAD DNYANPEETH TECHNICAL CAMPUS, DHANGAWADI.

Shri Chhatrapati Shivajiraje College of Engineering Department of Mechanical Engineering

#### Attendance Sheet for Workshop on Quad-Copter

Sr. No.	Class	Name of Student Date	28/09/16	29/09/16	30/09/16	01/09/16
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28	ТЕ МЕСН	KAMBALE RAHUL	Kamble	bamble	bamble	Kamble
29	ТЕ МЕСН	PATIL RAJU	Rojul	Rapil	Rajup	Rojup
30	те месн	PINJARI RASHID	pinasiR	Proposil	binasiR	mousi,
31	ТЕ МЕСН	WAKODE SHRINIWAS	(PL	1	0	Q1
32	TE MECH	KONDALKAR NIRBHAY	prondemen	Grandals	Khondak	thendalpu
33	ТЕ МЕСН	BABAR AKSHAY	at .	OF.	PA	TA
34	TE MECH	SHINDE RANJIT S.	thirdel	Hairde	Hinder	Hunder
35	ТЕ МЕСН	PATIL AMIT M.	PatilA	palila	patilo	patila
36	TE MECH	RAUT DATTATRAY	Daret D.	Raulo	Racido	Racado
37	TE MECH	MALUSARE RESHMA	1	0	O.	里
38	TE MECH	HIRVE RAJENDRA LAXMAN	Phine	Thine	Kline	MHIME
39	TE E&TC	BHARGUDE ARATI D.	B.AD	B (DX)	B.AD	B.NO
40	TE E&TC	PAWAR POOJA M.	Dawar	Pawar.	Pavar	Taver
41	TE E&TC	PAWAR SHRADHA	Daws	Paros	garage	paros
42	TE E&TC	VARE JYOTSANA A.	J. vare	J. Verre	J. Vore	J. Varre
43	TE E&TC	LANDGE ANNU D.	Longlace A	Torrelat	Lander	- Candra
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46	TE E&TC	DHAVALE POOJA V.	Drayle P	Dharip	pharep	phowelop
47	TE E&TC	NIGADE SONALI P.	Nigadi	& Nigadi	SNi gad	& SNigad
48	TE E&TC	JADHAV MONIKA M.	Jacken	Tadho	Jadha	Icelhar
49	TE E&TC	DHAMAL RAKSHANDA V.	Planner	plance	Promal	Flower
50	TE E&TC	SHIVATARE PRAJAKTA C.	ghistore	Shorter	egh who	Shortner

Workshop Coordinator

Prof. D. D. Zagade



Head

Dept. of Meh. Engg.

Mechanical Engineering Dept Shri Chhatrapati Shivajiraje College of Engineering Dhangawadi Tal. Bhor Dist. Pune - 412236

#### RAJGAD DNYANPEETH TECHNICAL CAMPUS, DHANGAWADI.

Shri Chhatrapati Shivajiraje College of Engineering Department of Mechanical Engineering

#### Attendance Sheet for Workshop on Quad-Copter

Sr. No.	Class	Name of Student Date	28/09/16	29/09/16	30/09/16	01/09/16
51	TE E&TC	MALUSARE POOJA A.	maj usar	malusas	emalusas	mulusur
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53	TE E&TC	DHONDE VAIBHAV V.	Dorell.	Donor	Money	Donar.
54	TE E&TC	PATANE ANKITA A.	3	K-	8	K
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57	TE E&TC	YADAV YOGESH S.	Yadav V.5	Yaelary's	Yadav T's	Yadaw Ys.
58	TE E&TC	TANPURE AKSHAY K.	Fangure Ark	Tanpare.	Tanpure Ark.	Tanpure A.K.
59	TE E&TC	GHORE SAGAR S.	EARS	EHRS	8725	2168
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71	TE E&TC	DHAMAL NIKHIL GANPAT	Dhumal &	Dhough	Sherral	Thomak

Tagod

Workshop Coordinator Prof. D. D. Zagade



Head

Dept. of MtQDEngg.

Mechanical Engineering Dept
Shri Chhatrapati Shivajiraje
College of Engineering
Dhangawadi Tal. Bhor
Dist. Pune - 412236



Tech Enclave | Plot No. 116, RSC - 6, Gorai - 1, Borivali - W, Mumbai 400091 T: 1800 - 3000 - 6788

Ref No: 0025A

PAN No: BELPG4911G

Date: 30/09/2016

#### INVOICE

Bill To:

#### RAJGAD TECHNICAL CAMPUS, BHOR, PUNE.

Sr. No.	Description	No of Students Trained	Fees Per Student	Total Amount
1	Quad Copter	69	600/-	INR 41,400/- Forty One Thousand Four Hundred Only
Total A	mount			INR 41,400/- Forty One Thousand Four Hundred Only

#### Terms and Conditions:

- 1. E. & O. E.
- 2. Any complaints be lease be intimated within 24 hours of receipt of materials.
- 3. Subject to Mumbai Jurisdiction only.
- 4. Chq / DD should be in favor of "Robokart.com" payable at Mumbai

Robokart.com Authorized







सरोली, जिला. पुणे शाखा, पुणे — 412205 SAROLE,DIST.PUNE BRANCH, PUNE-412205 IFSC: CBIN0282342

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Rajgad Dnyanpeeth's

## Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil Hon. secretary

Anantrao Thopte
Founder President
Ex. Education Minister
Maharashtra State



#### Department of Mechanical Engineering

Date: -01/10/2016

To,
The Head,
ARK Techno Solution &
Robocart.com
E-Cell IIT Bombay.

Dear Sir,

We would like to take this opportunity to thank you on behalf of RDTC's SCSCOE; Dhangawadi for taking workshop on 'Design, Assembly & Testing of Quad Copter' gave to us from 28<sup>th</sup> September to 1<sup>st</sup> October 2016. It was obvious that you are extremely knowledgeable in your field. It saw everyone participated in workshop captivated by the sessions. We find that the whole area of your expertise in Robotics is truly fascinating and would ask that you consider a repeat performance at some future date.

Thanking you.



Prof. S. K. Pawar Head of Department

Dept. of Mechanical Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

Regred





# Certificate of Appreciation

Presented to:

Prof. S. K. Pawar

(HOD MECHANICAL)

In recognition of outstanding support in organizing workshops for students, for the workshop QUADCOPTER areas of MECHANICAL.

We are highly impressed with the coordination for organizing such activities

Chaitali Shah Director Robokart.com

Venkatesh Amrutwar Overall Co-ordinator E-Cell IIT Bombay

V. Amrutwar





## Certificate of Participation

#### Presented to:

Marathe Akshay Sunil	
participated in Quad- copter Wor	kshoρ at
RDTC'S SCSCOE	conducted from
28-9-2016 to 1-10-2016	organized by
Robokart.com in association with I	E-Cell IIT Bombay

Chaitali Shah Director

Venkatesh Amrutwar **Overall Co-ordinator E-Cell IIT Bombay** 

V. Amrutwar

To create & verify certificate no Visit: certificate.robokart.com



Robokart.com

# ACADEMIC YEAR 2017-18



#### Vernier Design Solutions Pvt.Ltd.

804/8th Floor,Kumar Surabhi Near Laxminarayan Theater ,Satara Road.Swargate,Pune-411009 Contact:-020-65211234

Website:- www.verniercadd.com CIN:U74900PN2015PTC154486.

#### **Proposal**

Date: - 18/11/2017

To,

HOD

**Civil Department** 

Shree Chhatrapati shivajiraje College of engineering, Dhangawadi, Pune.

Sub: - MOU Proposal for CAD/CAE Skill improvement Program.

# SHREE CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING .— VERNIER DESIGN SOLUTIONS Pvt. Ltd. Pune COLLOBORATIVE

SCSCOE College of engineering is known for the best of Educational in Engineering domain and VDS known for its Technical Expertise are coming together to enable student know and study latest software's in CAD/CAM/CAE domain VERNIER DESIGN SOLUTIONS will educates students/participants on latest software's through our pool experts and industry experience Technical Lead-Faculties.

To enable smooth transitioning of knowledge to students each party have their specific duties and responsibilities to adhere. Following are set of guidelines on which this memorandum of understanding will be based.

#### **BENEFITS OF THESE PROGRAMS TO STUDENTS:**

- Introduced by PTC, the creator of Creo (Formerly Pro engineer).
- Curriculum (Role Based) tailored to make students industry ready.
- Globally recognized PTC-branded certificates on successful completion.
- Opportunity to learn from qualified, competent instructors.
- Personal copy of study material and free creo student license.
- Professional Creo training at affordable price.
- Higher placement opportunities.
- Higher pay packages in campus placements.
- Window to latest Technologies.
- Multiple skills for better skilled jobs.
- Empowering College for preparing "JOB READY" Resources.

#### ❖ PROPOSAL FOR STUDENTS:

No.	Name Of Course	Duration	Fees Per Student	College Share	
1	Advance Auto CAD	40 hrs	3000/-	1000	
2	Revit Arch	80hrs	4500/-	1000	
3	Staad Pro	60 Hrs	4000/-	1000	

Principal
Shri Chharapati Shi mjiraje College
of Engineering, Dhangawadi,
Tai. Bhor, Dist. Pune.

PRINCIPAL

#### \* FEES PAYMENTS:

Fees can be paid directly to Vernier Design Solutions Pvt Ltd Payable at Pune. Payment can be made as CASH/Cheque/Demand Draft in favour of \_ Vernier Design Solutions PvtLtd \_ payable at Pune.

MANAGING DIRECTOR

O Pune Pune P

Vernier Design Solutions Pvt Ltd.



#### Vernier Design Solutions Pvt.Ltd.

804/8th Floor,Kumar Surabhi Near Laxminarayan Theater ,Satara Road.Swargate,Pune-411009 Contact:-020-65211234 Website:- www.verniercadd.com CIN:U74900PN2015PTC154486.

#### **About Us:**

Vernier Design Solutions is an Authorized Training Centre and ISO9001:2001 Certified Company by ANSI. We expertise in providing cutting edge solution in the latest technologies that caters to the needs of plastic, automobiles, manufacturing, casting tooling & Variety of other industries on CAD CAM CAE and 3D printing platform. CAD / CAM / CAE and 3D Printing have emerged as critical applications for manufacturers. Right from the stage of conceiving of the idea to designing the product with aesthetic appeal to developing the product level drawings and lastly to the validation/analysis stage, CAD / CAM / CAE play important roles. CAD/CAM/CAE applications lie at the core of today's product development and product lifecycle. Vernier Design Solutions with its specialization in CAD/CAM/CAE is well-positioned to help you tap into the power and versatility of CAD/CAM applications.

#### **Quality Goal:**

At Vernier Design Solutions, quality is our main goal and we take pride in providing high quality products to our clients. While focusing on continuous improvement of our processes and customer satisfaction, we are committed to total quality and ensure quality standards are adhered to at all levels. At Vernier Design Solutions, quality policies are designed to be customer and process oriented. An integrated system is applied throughout Vernier Solutions management and employees are committed to providing customers with outstanding tools, products and services by way of stringent adherence to established quality. The objective is to strive for zero defects, focus on efficiency, performance, creativity and business excellence, build tools with high reliability and performance and be the preferred service provider for repeat business. At Vernier Design Solutions, we are committed to deliver outstanding results on time-and every time, exceeding your expectations.

#### SCOPE OF ASSOCIATION :

Talent enriching specialized courses will be provided to all Engineering Fields Mechanical, Information Technology, Civil/Architectural, Electrical, Electronic, Instrumentation and Polymer.

#### DELIVERABLES - VERNIER DESIGN SOLUTIONS

- Industry Expert trainer for best of knowledge transfer.
- · Certificates
- Post-Training support for queries and projects guidance.
- Especially Designed notes for through understanding of Subject.
- Industry Expert to take seminar on latest in particular Technology.

#### SCSCOE COLLEGE OF ENGINEERING TO PROVIDE

- A Conductive atmosphere for student to learn technology.
- Adequate no. of pc's with relevant software.
- Ensuring staff support for smooth transition of knowledge.

#### DURATION:

Duration of Course will be linked to course completion. Training will be conducted in college campus. Students will be trained in batches depending upon nos. of Students Enrolled.

#### LIAISONING AND OPERATIONS:

VERNIER DESIGN SOLUTIONS will appoint a dedicated Technical Leader who will be communicating and can act as mediator for various operational points, between College Management, Students and Vernier design solutions Staff. If needed department can also appoint similar position staff for smooth function of process.

नना ज्ञानमयः प्रतिपः ॥

Rajgad Dnyanpeeth's

# Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil

Hon. secretary

**Anantrao Thopte** Founder President Ex. Education Minister Maharashtra State

Date: 18/11/2017



#### INVITATION

To.

· Swapnil Pankhe

Vernier Design Solution Pvt. Ltd.

Swaragate, Pune

Subject: Invitation for conducting STAAD PRO Course.

Ref: Your telephonic discussion with Prof. S. R. Sutar on 15 Nov. 2017.

Respected sir.

This gives Department of Civil Engineering of SCSCOE, great pleasure to request you to conduct certified course Program as STAAD PRO V8i for Third year civil students in SCSCOE, Dhangawadi. We will be thankful to you if you can schedule this program of 50hrs on each Saturday and Sunday of February and March of 2018

Therefore we request you to kindly send your resume. We are looking forward to meet you soon and get enlightened with your experience.

> Civil Engg.

Deptt

Thanking you.

Prof. S. R. Sutar

Coordinator

Yours Faithfully,

Prof. G. S. Jadhav

Head of Department Dept. of Civil Engineering Shri Chh. Shivajiraje College of Engg.

Dhangawadi, Pune-412206

Recioved

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

Date: 18/11/2017

#### NOTICE

All students of TE Civil hereby informed that we are going to start STAAD PRO certified courses program in our department at Computer Lab those students are interested kindly contact to Prof. S. R. Sutar (Contact No. 9096246540)

Shivajiraje

Civil Engg. Deptt.

Prof. S. R. Sutar Coordinator Prof. G. S. Jadhav

Head of Department
Dept. of Civil Engineering
Shri Chh. Shivajiraje College of Engg.

Dhangawadi, Pune-412206

# **VDS,PUNE**

# STAAD-PRO

Trainer Name: ANIL MULE (BE. CIVIL)

## Schedule

	Schedule	TIME
Date	Contents	TIME
		10 AM to 5 PM
/02/2018	Introduction to STAAD-PRO	10 AM 10 3 PM
<b>V</b> <sub>0</sub>	Basic Indian codes	
	Introduction of Tool	
	Grid system	
	Method of Drafting	
	snap node/ beam	
	cut copy paste	
	run structure wizard	
	Translation repeat	
4/02/2018	Model Generation	10 AM to 5 PM
4/02/2010	Automatic slab generation	
	create properties	
	Assigning properties to member	
	create Support	
	Assigning support system	
	create load	
	Dead load, Liveload, Wind load	
TE SEALON IN	Assigning load cases	
	Dead load, Liveload, Wind load	
	Creating load combination	
	A Production of the American	10 AM to 5 PM
10/02/2018	Additional load	
	Seismic load	
	Floor load	
11/02/2018	Analysis	10 AM to 5 PM
	Display of reaction, displacement	



17/02/2018	Concrete design	10 AM to 5 PM
	Concept of Fc, Fymain &Fysec	
	Select parameter	
	Defining parameter	
	Assigning design process for column	
	Assigning design process for beam	
24/02/2018	Report And Water tank	10 AM to 5 PM
	Rectangular water tank	
	Creating model of tank	
	Introduction to surface meshing	
	Adding of column & beam	
	Assign hydrostatic load	

17/03/2018	Steel truss	10 AM to 5 PM
	Geometry of trusses	
	Member properties from steel table	
	loading on truss	
	Assigning DL, LL & WL	
	Assigning of load combination	
	Analysis	
	Steel design	
24/03/2018	Import of Auto-Cad plan	10 AM to 5 PM
	Additional	
	Foundation design	



#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal - Bhor, Dist- Pune (Maharashtra)

#### REPORT ON, "STAAD PROSHORT TERM COURSE"

NAME OF EXPERT/GUEST: Swapnil Pankhe, Vernier Design Solution Pvt. Ltd, Swaragate, Pune
Abhijit Gaikwad, Vernier Design Solution Pvt. Ltd, Swaragate, Pune
Anil Mule, Trainer, Vernier Design Solution Pvt. Ltd, Pune

TITLE/TOPIC: Short Term Course on "STAAD PRO Course"

DAY & DATE: Wednesday - 03th Feb 2018 to 25th March 2018

SESSION VENUE: Computer Lab

**DURATION OF SESSION:** 50Hrs, Saturday & Sunday at 11 am -5 pm

PRESENT STUDENTS/STAFF: 14/04

<u>OBJECTIVE</u>:To train the students in structural Modeling, Designing and Analysis, Integrated Design and Finite Element Analysis.

**DESCRIPTION:** With the help of this students to have reasonably good knowledge in "Strength of Materials" and should have a good concept of loads, Shear force & Bending Moment, Deflection, Degree of freedom, Supports, Constraints and little FEA concepts. Analyse and design any beam with any loading type and any kind of supports.

- Analyse and design any 2D Frame with any loading type for any load sets.
- Analyse and design any plan (3D) of a RCC building for static, earthquake & wind loads.
- Analyse steel structures with truss elements.
- Analyse steel structures with beam elements.
- Analyse 3D Industrial Steel truss structures.
- Analyse bridge truss for moving loads.
- Analyse dome shape structures or any structure with plate elements

**CONCLUSION:** This course covers the complete analysis and design of RCC structures.

**PHOTO DURING SESSION:** 











Prof. 8. R. Sutar Coordinator



Prof. G. S. Jadhav

Head of Department
Dept. of Civil Engineering
Shri Chh. Shivajiraje College of Engg.



#### Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

#### **Department of Civil Engineering**

#### SYLLABUS for Workshop on "STADD PRO"

	PART A
troduction	
Basic Indian codes	
• Introduction of Tool	
• Gride system	
<ul> <li>Method of Drafting</li> </ul>	
<ul> <li>sanp node/ beam</li> </ul>	
<ul> <li>cut copy paste</li> </ul>	
<ul> <li>run structuer wizard</li> </ul>	
• Translation repeat	
	PART B
<b>Model Generation</b>	
Automatic slab generation	
Creat properties	
<ul> <li>Assigning properties to member</li> </ul>	
Creat Support	
<ul> <li>Assigning support system</li> </ul>	
• Creat load	
• Dead load,Live load,Wind load	
<ul> <li>Assigning load cases</li> </ul>	
<ul> <li>Dead load, Live load, Wind load</li> </ul>	
<ul> <li>Creating load combination</li> </ul>	
	PART C

#### **Additional load**

- Siesmic load
- Floor laod
- Display of reaction, displacement
- Concept of Fc, Fymain & Fysec
- Select parameter
- Defining parameter
- Assigning design process for column
- Assigning design process for beam

#### PART D

#### **Steel truss**

- Geometry of trusses
- Member properties from steel table
- loading on truss
- Assigning DL, LL & WL
- Assigning of load combination
- Analysis
- Steel design

#### **PART E**

#### **Import of Auto-Cad plan**

- Additional
- Foundation design

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

#### STUDENTS ATTENDANCE SHEET - STADD Pro.

SR.	STUDENTS NAME	CONDUCTION DATE											
NO		3-Feb	4-Feb	10-Feb	11-Feb	17-Feb	18-Feb	24-Feb	25-Feb	17-Mar	18-Mar	24-Mar	25-Mar
1	TALEKAR ANIKET DHARMARAJ	P	P	P	P		P		P	P	Р	-	P
2	SONDKAR SHEKHAR SAMBHAJI	P	P	P	P	-	P	-	P	P	Р	P	P
3	AMBOLE NIKHIL MADHUKAR	P	-	P	P	-	P	-	P	P	р	-	P
4	RAWALEKAR POOJA PRAVIN	P	-	P	P	Р	P	-	P	P	р	-	P
5	JAVALE DIPAK POPAT	P	P	P	P	Р	P	P	P	P	Р	P	P
6	SHIRKE PRASHANT SAMPAT	P	P	P	P	-	P	-	P	P	Р	P	P
7	KHATAVKAR NAVANATH D.	P		P	P	-	P	-	P	P	Р	P	P
8	JAGTAP DIPTI CHANDRAKANT	P	P		-	P	-	P	-	-		P	-
9	YADAV SHUBHAM VILAS	P	P	P	P	-	P	-	P	P	Р	P	P
10	SHIRASKAR SAMEER TUKARM	P	Р	P	Р	P	P	P	P	P	Р	P	P
11	GAUDGAO ASHPAK DAUD	P	P	P	Р	P	P	-	P	P	P	P	P
12	CHOPADE SUPRIYA PREETAM	P	-	P	P	P	P	Р	P	P	Р	-	P
13	SAIYED FARAZ ALIMUDDIN		P	P	P	Р	Р	Р	Р	P	Р	-	P
14	BORANA VINOD KEVALCHAND	1977-1997		-	-	Р						P	-



f, SCR. Sutar

।। प्रज्यलितां ज्ञानमयः प्रदिषः ।

Rajgad Dnyanpeeth's

# Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil

Hon. secretary

Anantrao Thopte Founder President Ex. Education Minister Maharashtra State

Date: 24/03/2018

#### CODUCTION

To,

Swapnil Pankhe

Vernier Design Solution Pvt. Ltd,

Swaragate, Pune

Subject: Expression of gratitude

Dear Sir.

On behalf of Institute, It gives me an immense pleasure to thank you for sparing your valuable time with us and sharing your experiences. We express our immense gratitude for having you at our college to conduct a fabulous session on "STAAD PRO V8i" dated on 03/02/2018 to 24/03/2018. It was our pleasure for having a person like you at our institute. We take this opportunity to tell you this with pride that our student thoroughly enjoyed your entire session. We would like to know if you ever need our support.

We look forward for your expertise in future educational endeavors

Thanking you.

Reven



Yours Sincerely,

Prof. G. S. Jadhay

**Head of Department** 

Dept. of Civil Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal - Bhor, Dist- Pune (Maharashtra)

#### "STAAD PRO".

#### Student Feedback Form

Students are required to rate the course on the following attributes using the 4 -point scale shown.

Course: [tick (✓) in the relevant cell]

co	verall rating of the course				Unsatisfactory
0 0	ontent	1			
2. Co	ourse objectives were clear				
	larity and relevance of textual eading material				
co	he teacher was effective in ommunicating the content of the ourse	V			
an	he teacher responded to questions in informative, appropriate and stisfactory manner.	<b>/</b>			
fu	o you have any suggestions for iture workshops that you would like is to organize?	Yes.	, Usew	to Job	
	Yould you recommend this course to her students?				
Any Ot	ther Comments-				



#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

#### **Department: Civil Engineering**

#### LIST OF STUDENTS ENROLL FOR STADD PRO (CERT. COURSE)

#### AMOUNT RECIEVED FOR CERTIFICATECOURSE

Sr.	N	F	ees	Fees Paid	Remark	
no.	Name of Student	Course fees	College Share	rees raiu		
1	CHOPADE SUPRIYA PRITAM	3000 /-	1000 /-	4000 /-	Completed	
2	JAGTAP DIPTI CHANDRAKANT	3000 /-	1000 /-	4000 /-	Completed	
3	YADAV SHUBHAM VILAS	3000 /-	1000 /-	4000 /-	Completed	
4	RAWALEKAR POOJA PRAVIN	3000 /-	1000 /-	4000 /-	Completed	
5	JAVALE DIPAK POPAT	3000 /-	1000 /-	4000 /-	Completed	
6	AMBOLE NIKHIL MADHUKAR	3000 /-	1000 /-	4000 /-	Completed	
7	BORANA VINOD KEVALCHAND	3000 /-	1000 /-	4000 /-	Completed	
8	GAUDGAO ASHPAK DAUD	3000 /-	1000 /-	4000 /-	Completed	
9	SAIYED FARAZ ALIMUDDIN	3000 /-	1000 /-	4000 /-	Completed	
10	SHIRKE PRASHANT SAMPAT	3000 /-	1000 /-	4000 /-	Completed	
11	SHIRASKAR SAMEER TUKARAM	3000 /-	1000 /-	4000 /-	Completed	
12	SONDKAR SHEKHAR SAMBHAJI	SHEKHAR 3000 /-		4000 /-	Completed	
13	TALEKAR ANIKET DHARMARAJ	3000 /-	1000 /-	4000 /-	Completed	
14	KHATAVKAR NAVNATH D	3000 /-	1000 /-	4000 /-	Completed	
	TOTAL	42,000 /-	14,000 /-	56,000 /-		

Prof. Sutar S. R. Coordinator



Prof. G. S. Jadhav

Head of Department
Dept. of Civil Engineering
Shri Chh. Shivajiraje College of Engg.
Dhangawadi, Pune-412206



# Vernier Design Solutions Pvt Ltd.

In Association With

Shri Chhatrapati Shivajiraje College of Engineering



# Certificate of Completion

This is to certify that, Mr/Ms SHEETAL V. SALUNKHE has Successfully completed the 50 hrs course on Staad Pro V8i held at Shri Chhatrapati Shivajiraje College of Engineering, Bhor. From 10th feb to 5th march 2018.



Prof. G.S. Jadhav

Head Of the Department

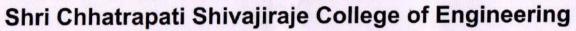
Shri Chhatrapati Shivajiraje College Engineering, Bhor.

Mr.S.S.Panke
Director
eering,Bhor. VDS Pvt Ltd,Pune.



## Vernier Design Solutions Pvt Ltd.

In Association With





# Certificate of Completion

This is to certify that, Mr/Ms \_\_\_\_\_\_ JAGTAP DIPTI CHANDRAKANT \_\_\_ has Successfully completed the 50 hrs course on Staad Pro V8i held at Shri Chhatrapati Shivajiraje College of Engineering, Bhor.

From 10th feb to 5th march 2018.



Head Of the Department

Shri Chhatrapati Shivajiraje College of Engineering, Bhor.

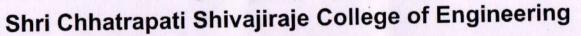
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Mr.S.S.Panke
Director
VDS Pvt Ltd,Pune.

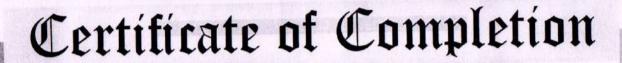


# Vernier Design Solutions Pvt Ltd.

In Association With







This is to certify that, Mr/Ms \_\_\_\_\_BORANA VINOD KEVALCHAND \_\_has Successfully completed the 50 hrs course on Staad Pro V8i held at Shri Chhatrapati Shivajiraje College of Engineering, Bhor.

From 10th feb to 5th march 2018.



Head Of the Department
Shri Chhatrapati Shivajiraje College of Engineering, Bhor.

Mr.S.S.Panke
Director
VDS Pvt Ltd.Pune

।। प्रज्यालियो ज्ञानमयः प्रद्रिपः ।।,

Rajgad Dnyanpeethis

# Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil

Anantrao Thopte
Founder President
Ex. Education Minister
Maharashtra State



# Department of Mechanical Engineering

Date: 15/02/2018

## **INVITATION LETTER**

To

The Head

M-CAD Training Institute,

Bhor, 412206.

**Subject:** Invitation for conducting workshop on "Computer Aided Design using CATIA & AutoCAD".

Dear Sir,

It gives us immense pleasure to announce that Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering, Department of Mechanical Engineering has scheduled a workshop on "Computer Aided Design using CATIA & AutoCAD" for students of our department.

Please, accept this invitation and acknowledge the same.

Thanking You,

Yours truly,

Prof. M. B. Bankar Workshop Coordinator



Prof. S. K. Pawar Head HOD epartment

Dept. of Mechanical Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

Received

## SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist-Pune (Maharashtra)

#### Department of Mechanical Engineering

Date: 27/02/2018

#### **NOTICE**

Department of Mechanical Engineering is going to organize a workshop on "Computer Aided Design using CATIA & AutoCAD" by M-CAD Training Institute, Bhor from 17<sup>th</sup> March to 29<sup>th</sup> April 2018 every Saturday & Sunday. All the student of Mechanical Engineering, those who want to participate in this workshop is register your name and contact number to Prof. M. B. Bankar on or before 15<sup>th</sup> March 2018.

Prof. M. B. Bankar Workshop Coordinator Onyanpeeth's to DTE:6324

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Prof. S. K. Pawar Head of 90 partment

Dept. of Mechanical Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

#### SHRI CHATTRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune (Maharashtra)

#### REPORT OF WORKSHOP ON "COMPUTER AIDED DESIGN"

**DEPARTMENT:** Mechanical Engineering

CLASS: B.E. Mechanical

NAME OF GUEST/EXPERT: Mr. Vishal Jagtap, Head, M-CAD Training Institute, Bhor.

TITLE OF SESSION: Computer Aided Design using CATIA & AutoCAD

DAY & DATE: 23 Feb 2018

STUDENT PRESENT: 40

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рузидамаді SppU:407

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CORDINATOR: Prof. M. B. Bankar

**OBJECTIVE:** Industrial Exposure to Solid Modeling for BE Students.

DISCRIPTION:

# Workshop on "Computer Aided Design using CATIA & AutoCAD" Organized by Dept. of Mechanical Engineering In Association with M-CAD Training Institute, Bhor. 17th March 2018 to 29th April 2018

A Workshop on "Computer Aided Design using CATIA & AutoCAD" Organized by Department of Mechanical Engineering In Association with M-CAD Training Institute, Bhor. 17th March 2018 to 29th April 2018). Expert, Mr. Vishal Jagtap, Head, M-CAD Training Institute, who is having real time experience in modeling, worked as onsite deputation Engineer with Global team projects were contributor with significant responsibilities and ownership in designing or engineering the components for Aerospace, Power & water & Automotive industries have been invited as resource person.

The Program was started with formal inauguration addressing the participants by the HOD of Mechanical Engineering Prof. S. K. Pawar. Overview of the program and introduction of the Expert from, M-CAD Training Institute was given by Prof. M. B. Bankar Program Coordinator.

Total 15 students were attended Computer Aided Design using CATIA & AutoCAD program. The workshop was arranged in two sessions per week. In the first session was Introduction, Parametric Sketching, Parametric solid modeling, Advance solid modeling tools and Introduction of Surface were discussed. The second session of the workshop was devoted to the practicals on CATIA V5.

The program was interactive and the students are very well technically benefitted from the training. Many real time case studies were discussed and few assignments are given to participants to provide the solutions during the program. Shivajiraje Co

At the end of the training the participants will have: Understanding of CATIA VS interface and commands for the following modules Sketcher, Part Design, Assembly Design & Drafting.

#### PHOTO'S DURING SESSION:



Prof. M. B. Bankar Program Coordinator



Prof. S. K. Pawar

Headbodepartment

Dept. of Mechanical Engineering

Dept. of Mechanical Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206



#### Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

#### **Department of Mechanical Engineering**

#### SYLLABUS for Workshop on "CAD using CATIA & Autocad"

	PART A
Introduction of CATIA	
<ul> <li>Software overview</li> </ul>	
<ul> <li>Plane creation resizing</li> </ul>	
<ul> <li>View &amp; Appearance</li> </ul>	
<ul> <li>Sketcher</li> </ul>	
• Transformation features	
<ul> <li>Specification Trees</li> </ul>	
<ul> <li>Constraints</li> </ul>	
	PART B
Part Design	
<ul> <li>Assembly</li> </ul>	
<ul> <li>Advanced part design tools</li> </ul>	
• Wireframe & surface tools	
<ul> <li>Sheet metal design</li> </ul>	
<ul> <li>DMU kinematic simulations</li> </ul>	
Mold design	
	PART C
<ul> <li>Various welding works</li> </ul>	
<ul> <li>Drafting</li> </ul>	
Assign Material	
Geometrical mass measurements	
<ul> <li>Critical mass properties</li> </ul>	
<ul> <li>Product functional Annotation</li> </ul>	
<ul> <li>Practice from workbook</li> </ul>	
	PART D
AUTOCAD- Introduction	
• Unit & Limits	
• Draw tools	
<ul> <li>Modify</li> </ul>	

Dimension & Annotation

#### PART E

- Tool Palletes
- Layers
- 3D Modelling
- Practice of exercises

#### SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist-Pune (Maharashtra)

#### **Department of Mechanical Engineering**

Date: 27/02/2018

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DATE		SYLLABUS
	CATIA	
	a)	INTRODUCTION
17 <sup>TH</sup> MARCH 2018	b)	SOFTWARE OVERVIEW
	c)	PLANE CREATION RESIZING
	d)	VIEW & APPEARANCE
18 <sup>TH</sup> MARCH 2018	a)	SKETCHER
	a)	TRANSFORMATION FEATURES
24 <sup>TH</sup> MARCH 2018	b)	SPECIFICATION TREES
	c)	CONSTRAINTS
25 <sup>TH</sup> MARCH 2018	a)	PART DESIGN
31 <sup>ST</sup> MARCH 2018	a)	ASSEMBLY
1 <sup>ST</sup> APRIL 2018	a)	ADVANCED PART DESIGN TOOLS
7 APRIL 2018	a)	WIREFRAME & SURFACE TOOLS
8 <sup>TH</sup> APRIL 2018	a)	SHEET METAL DESIGN
	a)	DMU KINEMATIC SIMULATIONS
14 <sup>TH</sup> APRIL 2018	b)	MOLD DESIGN
	c)	VARIOUS WELDING WORKS
15 <sup>TH</sup> APRIL 2018	a)	DRAFTING
	a)	ASSIGN MATERIALS
21 <sup>ST</sup> APRIL 2018	b)	GEOMETRICAL MASS MEASUREMENTS
21 APKIL 2018	c)	CRITICAL MASS PROPERTIES
	d)	PRODUCT FUNCTIONAL ANNOTATION
22 <sup>ND</sup> APRIL 2018	a)	PRODUCT FUNCTIONAL ANNOTATION  PRACTICE FROM WORKBOOK  PRACTICE FROM WORKBOOK  90ZZLY  90ZZLY  9und  ipeme6ueuk

	AUTOCAD	
28 <sup>TH</sup> APRIL 2018	a)	INTRODUCTION
	b)	UNITS & LIMITS
	c)	DRAW TOOLS
	d)	MODIFY
	e)	DIMENSION & ANNOTATION
	a)	TOOL PALLETES
20TH A DDH 2018	b)	LAYERS
29 <sup>TH</sup> APRIL 2018	c)	3D MODELING
	d)	PRACTICE OF EXCERSIZES

Prof. M. B. Bankar Workshop Coordinator



Prof. S. K. Pawar HeadlonDepartment

Dept. of Mechanical Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

#### RAJGAD DNYANPEETH TECHNICAL CAMPUS, DHALGAWADI.

Shri Chhatrapati Shivajiraje College of Engineering Department of Mechanical Engineering

#### Attendance Sheet for Workshop on CAD using CATIA & AutoCAD

Sr.No.	Class	Name of Student Date	17/3/18	18/3/18	24/3/18	25/3/18	3/9/18	1/4/18	7/4/18	8/4/18	14/4/18	15/4/18
1	BE	Shinde Akshay Dattarao	ADS-	ADS	ADS	ADS	ADS.	ADS	ADS	ADS	ADS	ADS.
2	BE	Shinde Narendra Sahebrao	18	-A B-	88	48	-A8-	86	\$18	18	18	\$B
3	BE	Ahire Vishal Suresh	VS. ANTIOC	V5.Ahr	V.S.Ahir	U S.AKBA	-AB-	V.S.AG	V.S.Alfred	VSAK!	V.SAM'E	V.5.74-85
4	TE	Amit Vilas Chavan	Actions	Anna	Atom	Achar	Ahron	Adrim	Achen	Down	Atour	John )
5	TE	Sumit Vilas Chavan	Rat	Sold	South	Swit.	Suit-	-Sa'4	Sull	South	Levit	Fuit
6	TE	Jagtap Dattatray Vitthal	Wagrup	DJagrup	Dagrup	Darup	Dagrap	Dagrap	Dagrag	- American III		pragreg
7	BE	Vane Sagar Babasaheb	83	98	9B	VB.	SBB	B.	98	SB	18B	SB.
8	BE	Patil Milind Shrimant	-4114	4114	1112	11129	-21124	-01121	A1124	41124	-2114	- 2114
9	BE	Jadhav Ajay Ramdas	ARTON	ARTAMA	Aptada	ARAdha	ARJahov	Appodhak	-A8-	ARTHINON	Akadhay	ARMAN
10	BE	Sadanand Krishnat Kumbhar	SKIL.	SEE	5kk	5kk	skk	SK	Skk	8kk	Skk	8kb
11	BE	Pawar Sumit Bhavso	BB	PSB	PSB.	BB-	PSB	PSB	PSB	PSB.	PB-	PSB
12	BE	Babar Akshay Vijay	MB	AB	AVB-	AB	AB	AVB	-AB-	AB	AB-	AVB
13	BE	Pawar Suraj Jalindar	Sat Powar	SJ Pauge	St Paure	Spaus	Strange	Strawy	STPANIS	-AB-	STRWAR	STROUGH
14	BE	Vishnu Indrajit More	VIM	VIM	VIM	VIM	VIM	VIM	VIM	VIM	VIM	VIM
15	BE	Shubham Laxman Mandhare	181	md	me	msz	MB	MSL	-AB-	mB	MB	mg.

Workshop Coordinator

Prof. M. B. Bankar



Mechanical Engineering Dept Shri Chhati Head Shivajiraje College of Engineering Dept. of Mech. Engineering

# Rajgad Dnyanpeeth's RAJGA\_ NYANPEETH TECHNICAL CAMPUS, Dh. GAWADI.

Shri Chhatrapati Shivajiraje College of Engineering Department of Mechanical Engineering

# Attendance Sheet for Workshop on CAD using CATIA & AutoCAD

Sr.No.	Class	Name of Student Date	21/4118	22/4/18	28/4/18	29/4/18	er In	Wife		Marie .	ka min	
1	BE	Shinde Akshay Dattarao	ADS	ADS	ADS	Abs	T : H	191	27	17-3 to 18-3	BI 91	4
2	BE	Shinde Narendra Sahebrao	18	<b>1</b> B	DB.	\$B					W. 7 K	
3	BE	Ahire Vishal Suresh	V.S.Ahiad	V.S.Aha		U.SAHIY8	- 11/			Mrs H		
4	TE	Amit Vilas Chavan	Ac.	Ar.	dom	Donn.						
5	TE	Sumit Vilas Chavan	Six	Social	South	Royl						
6	TE	Jagtap Dattatray Vitthal	Diag rap	Diagrees	Magrell	DJagrap						
7	BE	Vane Sagar Babasaheb	98	SB	88	SOB.	13					
8	BE	Patil Milind Shrimant	Atre	4113	41124	-8112		an i			12 - 11	14870
9	BE	Jadhav Ajay Ramdas	ARTadha	ARTAN	ARSTAN	ARSTONIA	r				1	
10	BE	Sadanand Krishnat Kumbhar	AB-	Ske	SKE	SKK	Milen			W		
11	BE	Pawar Sumit Bhavso	PBB_	ASB.	-AB-	18B_		la de				
12	BE	Babar Akshay Vijay	ANB	AB	NB	ENB		(1)				
13	BE	Pawar Suraj Jalindar	-AB-	STROUGH	Sapanar	Strung	,					
14	BE	Vishnu Indrajit More	VIM	VIM	VIN	JIM			0 11 1		- 14	
15	BE	Shubham Laxman Mandhare	MS	MD	_AB_	MD	XIII.					T.

Workshop Coordinator

Prof. M. B. Bankar



Mechanical Engineering Dept Shri Chha Habati Shivajiraje College Head gineering Dept; of Mech. Engos ॥ प्रज्यलिन्। ज्ञानमयः प्रद्रिपः ॥, .

Rajgad Dnyanpeeth's

# Snri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, Govt of Maharashtra and Affiliated to the University of Pune (ID NO PU/PN/Engg/376/2009)

Dr. Bhagyashree s. Patil Hon. secretary

Anantrao Thopte
Founder President
Ex. Education Minister
Maharashtra State



# Department of Mechanical Engineering

Date: 04/05/2018

To

The Head,

M-CAD Training Institute,

Bhor, 412206.

Dear Sir

We would like to this opportunity to thank you on behalf of RD's SCSCOE Dhangawadi for taking workshop on 'Computer Aided Design using CATIA & AutoCAD' gave to us from 17<sup>th</sup> March to 29<sup>th</sup> April 2018. It was obvious that you are extremely knowledgeable in your field. It saw everyone participated in workshop captivated by the sessions. We find that the whole area of your expertise in CAD is truly fascinating and would ask that consider a recent performance at some future date.

Thanking you,

Received



Prof. S. K. Pawar Head of **Dep**artment

Dept. of Mechanical Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206





An Internationally Approved Certification body by International Accreditation Organization (IAO) USA, Dubai Governments - DAC Center Dubai, International Accreditation Service, California & Member of National Board for Quality Promotion - Quality Council of India (QCI) Government of India.

GOVT. OF MAHARASHTRA REG. No.: SAN/MRJ/GNL/O/343/2004





# MAHARASHTRA TECHNICAL & SELF EMPLOYMENT TRAINING SOCIETY (MTSTS)



This is to certify that VANE SAGAR BABASAHEB

Has successfully completed and Passed the examination for MTSTS & IAO USA CERTIFIED - CERTIFICATE COURSE IN CAD MODULING (6 DAYS)

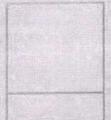
With 95.00 percentage and Awarded with the grade A++
This Final Examination Conducted by
the Exam committee of Maharashtra Technical

& Self Employment Training Society

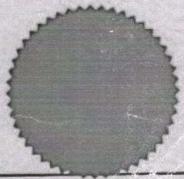
During April-2018 (DURATION - 01-Apr-2018 TO 30-Apr-2018)
AT - M-CAD INSTITUTE

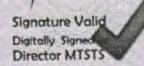
In testmony whereof are set the seal & signature of the Director (MTSTS) Maharashtra State





Exam Center Head (ATC) Signature Issued Date: - 31/07/2018























An Internationally Approved Certification Nody by International Accreditation Organization (IAO) USA, Dubai Governments - DAC Center Dubai, International Accreditation Service, California & Member of National Board for Quality Promotion - Quality Council of India (QCI) Government of India.

GOVT OF MAHARASHIRA REG. No.: SAN/MRI/GNL/O/343/2004

FOREIGN AUTHORITY APPROVED & AN ISO 9001: 2015 CERTIFIED



# MAHARASHTRA TECHNICAL & SELF EMPLOYMENT TRAINING SOCIETY (MTSTS)

De Certificate

This is to certify that JAGTAP DATTATRAY VITTHAL

Has successfully completed and Passed the examination for MTSTS & IAO USA CERTIFIED - CERTIFICATE COURSE IN CAD MODULING (6 DAYS)

With 95.00 percentage and Swarded with the grade A++

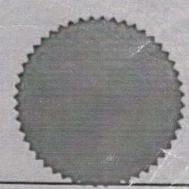
This Final Examination Conducted by the Exam committee of Maharashtra Technical & Self Employment Training Society

During April-2018 (DURATION CHAPT-2018 TO 30-Apr-2018)
AT - M-CAD INSTITUTE

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Exam Center Head (ATC) Signature mound Date: 31/87/2018















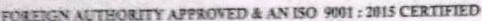






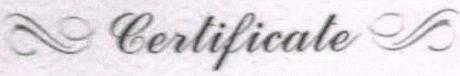
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CONT. OF MARKARASHTRA REG. No. SAN/MRJ/GNL/O/345/2004





# MAHARASHTRA TECHNICAL & SELF EMPLOYMENT TRAINING SOCIETY (MTSTS)



This is to certify that

Has successfully completed and Passed the examination for MTSTS & IAO USA CERTIFIED - CERTIFICATE COURSE IN CAD MODULING (6 DAYS)

With 19250 percentage and Stovarded with the grade A++

This Final Examination Conducted by

the Exam committee of Maharashtra Technical

& Self Employment Training Society

During April-2018 (DURATION 05-Apr-2018)
AT - M-CAD INSTITUTE

In testmony whereof are set the seal & signature of the Director (MTSTS) Maharashtra State



Exam Center Head (ATC) Signature



Signature Valld Digitally Signed Director MTSTS





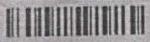








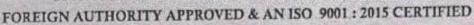






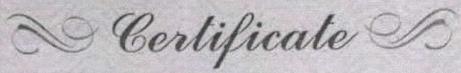
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GOVT. OF MAHARASHTRA REG. No. : SAN/MRJ/GNL/O/343/2004





# MAHARASHTRA TECHNICAL & SELF EMPLOYMENT TRAINING SOCIETY (MTSTS)



This is to certify that

JADHAV AJAY RAMDAS

Has successfully completed and Passed the examination for MTSTS & IAO USA CERTIFIED - CERTIFICATE COURSE IN CAD MODULING (6 DAYS)

With 95.00 percentage and Awarded with the grade A++
This Final Examination Conducted by
the Exam committee of Maharashtra Technical
& Self Employment Training Society

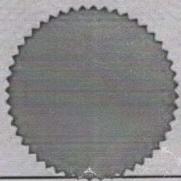
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AT - M-CAD INSTITUTE

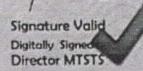
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Exam Center Head (ATC) Signature Issued Date: - 31/07/2018











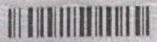








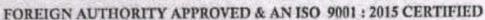






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# MAHARASHTRA TECHNICAL & SELF EMPLOYMENT TRAINING SOCIETY (MTSTS)



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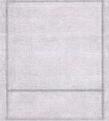
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AT - M-CAD INSTITUTE

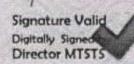
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Exam Center Head (ATC) Signature





















# **NOTICE**

All Second Year students are hereby informed that Workshop on "Programming Languages-I (C and C++)" of One Week has been organized from 5<sup>th</sup> to 10<sup>th</sup> June, 2017at 10.00 am. All are instructed to be present for the same.



Prof. M. B. Wagh

HOD H.O.D

DEPTT. OF COMPUTER ENGG. RDTC, Shri Chhatrapati Shivajiraje College of Engineering, Dhangwadi, Pune- 412206. ।। प्रज्यन्तिना ज्ञानमयः प्रदिषः ।।

Rajgad Dnyanpeeth's

# Shri Chhatrapati Shivajiraje College of Engineering

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Ex. Education Minister
Maharashtra State



#### INVITATION LETTER

Date: - 01/06/2017

To

Prof. N. J. Bhojane

Infinity Solutions Pvt. Ltd. Pune

Subject: Invitation for conducting Workshop on "Programming Languages-I(C, C++)"

Respected sir,

This gives Department of Computer Engineering of SCSCOE, great pleasure to request you to conduct workshop on Programming Languages-I (C and C++) for Second Year students in RD'S SCSCOE, Dhangawadi. We will be thankful to you if you can schedule it from 5<sup>th</sup> June 2017.

Waiting for your positive reply.

Received NBlangue



Prof. M. B. Wagh

Head of Department

Dept. of Computer Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206 ।। प्रज्यन्तिनं ज्ञानमयः प्रदिषः ॥

Rajgad Dnyanpeeth's

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Dr. Bhagyashree s. Patil Hon. secretary

Anantrao Thopte
Founder President
Ex. Education Minister
Maharashtra State



#### CONDUCTION LETTER

Date: - 10/06/2017

To,

Prof. N. J. Bhojane

Infinity Solutions Pvt. Ltd. Pune

We express our immense gratitude for having you at our college to conduct a fabulous sessions on "Programming Languages-I(C, C++)". It was our pleasure for having a person like you at our institute. We take this opportunity to tell you this with pride that our student thoroughly enjoyed your entire sessions. We would like to know if you ever need our support.

Thank You so much.

Received



Prof. M. B. Wagh

Head po Department
Dept. of Computer Engineering
Shri Chh. Shivajiraje College of Engg.
Dhangawadi, Pune-412206



# **Department of Computer Engineering**

# Schedule for Workshop on "PROGRAMMING LANGUAGES-I (C, C++)"

#### DAY 1 DATE: 05/06/2017

DAY & SESSION	TIME	CONTENTS/ACTIVITY
	10.00 am to 11.00 am	Inauguration session and well come to guests
	11.00 am to 11.15 am	Tea Break
DAY 1 MORNING	11.15 am to 01.30 am	Introduction of C Language  • C Programming Under TurboC
SESSION		<ul> <li>Working under LINUX</li> <li>Introduction to C compiling under LINUX</li> </ul>
		<ul> <li>Compilation Steps</li> <li>Introduction to anatomy of Simple C program</li> </ul>
	01.30 pm to 2.00 pm	Lunch Break
DAY 1 AFTERNOON SESSION	02.00 pm to 05.00 pm	C Operators
DAY 2 - DAT	E: 06/06/2017	7.
DAY 2 MORNING SESSION	10.30 am to 01.30 pm	Control Structure  The if condition Labels The goto statement Switch Construct  Comp. Engg. Deptt.

# **Department of Computer Engineering**

	01.30 pm to 02.00 pm	LUNCH BREAK
	02.00 pm to 05.00 pm	While Loop  • The while loop
DAY 2		The break statement
AFTERNOON		Continue Statement
SESSION		Nested While Loops
		The do-while Loop
		For Loop
		END DAY 2
DAY 3 - DAT	TE: 07/06/201	7
	10.30am to	Arrays
	01.30 pm	One dimensional Array
		Two Dimensional Array
DAY 3		Multi- dimensional Array
		Function
MORNING		Introduction
SESSION		<ul> <li>Execution of program using Function</li> </ul>
		Passing 1-D Array
		<ul> <li>Passing 2-D Arrays to Function</li> </ul>
	01.30 pm to 02.00 pm	LUNCH BREAK
		Recursive Functions
		Introduction
		Mutual Recursive
DAY 3		Tail Recursive
AFTERNOON	02.00 pm to	Pointers
SESSION	05.00 pm	Introduction
		<ul> <li>Passing Pointers to Functions</li> </ul>
		Dynamic Memory Allocation
		Precedence of Operators on Pointers and Arithmetic of pointers
		END DAY 3

# Department of Computer Engineering

DAY & SESSION	TIME	CONTENTS/ACTIVITY
	10.00 am to	Beginning with C++
	1.30 pm	1. Introduction
		2. Simple program in C++
		3. Structure of C++ Program
		<ol><li>Compilation and Linking</li></ol>
DAY 4		<b>Tokens</b> , Expression and Control Structures
MORNING	To a Table 1	<ul> <li>Introduction</li> </ul>
SESSION	1 1	• Tokens
		Basic Data types
		<ul> <li>User-defined Data types</li> </ul>
		Derived Data types
		Scope Resolution Operator
	01.30 pm to	LUNCH BREAK
	02.00 pm	
	02.00 pm to	Function in C++
	05.00 pm	Introduction
		Inline Function
		Function Prototyping
DAY 4		Call By Reference
AFTERNOON		Inline Functions
SESSION	2 1 7 1	Function Overloading
		Friend Function
		Classes and Objects
		Introduction
		A C++ program with classes
		Arrays within classes
		Use of Data members and member functions
		END DAY 4
DAY 5 - DAT	E: 09/06/201	
	10.00 am to	Constructors and Destructors
	01.30 pm	<ul> <li>Introduction</li> <li>Constructors</li> <li>Parameterized Constructor</li> <li>Copy Constructors</li> </ul>
		Constructors
		Parameterized Constructor     Copy Constructors     Copy Constructors
		Copy Constructors     Deptt.



# **Department of Computer Engineering**

		• Function Templates  Exception Handling  Engg. Deptt.
		Introduction     Class Templates  Comp.
	01.30 pm to 02.00 pm	LUNCH BREAK Templates
DAY 6 MORNING SESSION	10.00am to 01.30 pm	<ul> <li>Working with Files</li> <li>Introduction</li> <li>Classes for File Stream Operators</li> <li>Opening and Closing Files</li> <li>Detection end-of –file</li> <li>File Pointer and their manipulations</li> <li>Updating Files</li> <li>Error Handling during File Operations</li> <li>Command Line Arguments</li> </ul>
DAV6 DAT	ΓE: 10/06/201	END DAY 5
SESSION		<ul> <li>Pointers to Objects</li> <li>This Pointer</li> <li>Pointers to derived classes</li> <li>Virtual Functions</li> </ul>
DAY 5 AFTERNOON	02.00 pm to 05.00 pm	Pointers, Virtual Functions and Polymorphism  Introduction Pointers Pointers to Objects
	01.30 pm to 02.00 pm	LUNCH BREAK
DAY 5 MORNING SESSION		<ul> <li>Constructor with Default Argument</li> <li>Destructors</li> <li>Operator Overloading</li> <li>Introduction</li> <li>Defining Operator Overloading</li> <li>Inheritance</li> <li>Introduction</li> <li>Defining Derived Classes</li> <li>Types of Inheritance</li> </ul>



# **Department of Computer Engineering**

DAY 6 AFTERNOON SESSION	02.00 pm to 05.00 pm	<ul> <li>Introduction</li> <li>Basics of Exception Handling</li> <li>Exception Handling Mechanism</li> <li>Throwing Mechanism</li> <li>Catching Mechanism</li> <li>Rethrowing Mechanism</li> <li>Specifying Exception</li> </ul>
		END DAY 6

Prof. P. S. Nagale Co-ordinator



17/04/2017

Prof. M. B. Wagh

HOD H.O.D

**DEPIT.** OF COMPUTER ENGG. **RDTC**, Shri Chhatrapati Shivajiraje

College of Engineering, Dhangwadi,

Pune- 412206.



# Workshop on "Programming Languages-I (C, C++)".

#### **Student Attendance Sheet**

Sr.	Name of Student	05/06/2017		06/06/2017		07/06/2017	
No.		Session1	Session2	Session1	Session2	Session1	Session2
		Sign	Sign	Sign	Sign	Sign	Sign
1	Asabe Mayuri Ashok	Aube	Lobe	False	Labe	Labe	Dabe
2	Bhate Rohan Prasannakumar	Potan	-A	A	Lohan	Rohan	Pohas
3	Bhutkar Aishwarya Raghunandan	AL	AL.	AL	AL	AL	1
4	Damgude Diptee Arun	Dipter	DIPHER	Dipter	Dipter	- apples	- OPTER
5	Deshmane Akshata Sanjay	Seshow	Sees	Sch	Veshor	feshor	Desh
6	Deshmane Manoj Chandrakant	A	A	A	A	Ā	Δ
7	Devalekar Komal Suresh	EDD.	800.	POP-	DOC.	(POP.	BOD.
8	Dhanawale Sagar Dnyanoba	1	\$	40	4	4	4
9	Dhondge Kaustubh Virendra	A	A	A	1	X	1
10	Ghule Ajay Dinkar	Ascul	Diay	-ABout	Diane	Ajay	Diel
11	Kadekar Gausmohammad Innuskhan		-AB	BEN .	T		100
12	Khude Ankita Sunil	Ahude	Khude	Shude	Wheede	Dude	Moude
13	Khude Dipali Chhaban	Dude	Amole	Duke	remote (	phase.	Dide
14	Kumbhar Akshay Gurudev	Akshey	Akshey	Akshey	- Abstray	Akshew	Akshul
15	Mhasavade Arati Milind	3mhasan de	Darbasant	Anharache		Amhasavade	
16	More Ajinkya Namdeo	-Hore	Moou	Morse -	Hose	- More	The state of the s
17	Patil Pavan Dhanaji	Paras	BNOS	Parcel	Pies	RUED	Brace
18	Patil Rupesh Ramesh	Roatil	Reatil	Pratil	Roatil	Readil	Regatil
19	Pawar Snehal Laxman	achel	and	ashul	ashal	ashul.	mehul
20	Pawar Trupti Vikas	Fawer	Jun n	Porto	Faren	Fare	War h
21	Pawar Vaishali Sanjay	Harat	Hame	MRas	Marge	- HENORE	Donce
22	Phadnis Swapnali Sudhir	Shadni)	Shednis	1/	Shadnis	Shadnis	Shadni
23	Phase Vishakha Audumbar	A	A	Δ	Δ	A	A
24	Roman Snehal Ravindra	Toron-	Bomas	Borras	Soman	Roman	Poras
25	Salekar Rupali Balu	Sers	Om	Pers	Rose	Vici	Ons-
26	Salunke Pragati Sampat	Paral	Ragar	Ragas	9901900	Raugus	gaget
27	Sathe Sunny Somnath	Partie	Mark	Agus A	1403	Mada	Agadas
28	Shaikh Tamanna Anwar	Shailch	Shaileh.	Shouleh	Shaileh	Shaileh	Shallch
29	Shinde Tejaswini Popat	150		CI	Ton		
30	Shivankar Ankita Vinayak		Jap -	150	13	15P	ISP
31	Surve Ashlesha Devidas	phiese	quere	shore	Must 8	2 Klubs	e hiere



32	Surve Omkar Shashank	Onkas	Oakar	Onkoe	Contras.	Onkar	Ontose
33	Thakare Priyanka Shashikant	8m	Rolle	Ru	Ru	Roue	Bu
34	Yadav Krishna Ramdhani	Frishia	Kushea	Kwichna	Linchia	Kinishin	Lashia
35	Yadav Prajwal Shankar	Madew	~ adau	Maday	ndau	- radau	indow
36	Yadav Tanuja Dnyaneshwar	- Wadno :	Tradou -	Traday	Tyadau	trendon	Tuedan



# Workshop on "Programming Languages-I (C, C++)".

# Student Attendance Sheet

Sr.	Name of Student	08/0	5/2017	09/0	6/2017	10/06/2017		
No.		Session1	Session2	Session1	Session2	Session1	Session2	
		Sign	Sign	Sign	Sign	Sign	Sign	
1	Asabe Mayuri Ashok	Lake	Dabe	Dabe	Aabe	- Dabe	4.0	
2	Bhate Rohan Prasannakumar	Pohas	Rotan	Pahan	Pohan		Pohor	
3	Bhutkar Aishwarya Raghunandan	AL	建	AL	AL	AL	AL	
4	Damgude Diptee Arun	Diffee	Diptee	Poplee	Dipter	Dipties	Diptee	
5	Deshmane Akshata Sanjay	- postmon	8hr	- Jest me	Feshin	Sechon	FEL	
6	Deshmane Manoj Chandrakant		-A-	Δ	Δ		Δ	
7	Devalekar Komal Suresh	PDP.	(B)DE	(KDD.	(DDD.	Dog.	ann-	
8	Dhanawale Sagar Dnyanoba	90	10	4	40	A	4	
9	Dhondge Kaustubh Virendra	-A-	-A-	-AB-	-AR-	AR-	700	
10	Ghule Ajay Dinkar	-ABOUNT	-Aray	Haw.	Asal	Aral	Ai au	
11	Kadekar Gausmohammad Innuskhan		-ABS	ENT.				
12	Khude Ankita Sunil	Khude	Knude	Thude	Khude	Khade	Houde	
13	Khude Dipali Chhaban	Dhide	Dhoke	Elnac	Dhale	Almae .	Dhide	
14	Kumbhar Akshay Gurudev	Akshey	Akshey	Akiny	Akstru.	Akstray	Alcha	
15	Mhasavade Arati Milind	Amhasarade	Anhasavads				-	
16	More Ajinkya Namdeo	House	Hore	Hose	AMARC	Amhagard	Binheyava	
17	Patil Pavan Dhanaji	Parcie	Bras	Pavas	Pavas	Paval.	PONOS	
18	Patil Rupesh Ramesh	Reall	Prost.	Rechil	Roatil.	Pratil	-	
19	Pawar Snehal Laxman	Schol	Sahal	achal	ashal	011	1 potil	
20	Pawar Trupti Vikas	Tura	Town	- vaves	Vana-	model.	achel	
21	Pawar Vaishali Sanjay	Hause.	Y Ruspe	Aboute	Hans.	House -	Hauge	
22	Phadnis Swapnali Sudhir	Shalais	Shadinis	Shadnin	Shadnis	1	V	
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4	Roman Snehal Ravindra	Roman	Domas	Roman	Doman	Roman	A Day	
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7	Sathe Sunny Somnath	1	Scette	Lugge	Sathe	Porgrad	Regal	
8	Shaikh Tamanna Anwar	shallch.	chailes	Shailch	Shorkh	d 11-1	South	
	Shinde Tejaswini Popat	100	To		Sylver	Shaikh	Shailth	
-	Shivankar Ankita Vinayak	-		150	-	P	SISIL	
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	Suive Ashiesha Devidas	8		A	* Shri Ch	DTE: 6324 SPPU: 4071 Dhangawadi Pune 412205	of Engg. *	

412205



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33	Thakare Priyanka Shashikant	Bales	Ration	Pralre	Rose	Q 00	6 Wood
34	Yadav Krishna Ramdhani	Krishina	Lnichna	Lachan	Val	A CONTRACTOR	Sur-
35	Yadav Prajwal Shankar	dall	, adul	Vaclaty	1 Shar	Trisha	+ richag
36	Yadav Tanuja Dnyaneshwar	Tyredon -	Typdao .	tyadao	Tradae C	Torodoo	Tradao





### **Department of Computer Engineering**

### Report of Workshop On "Programming Languages - I (C, C++)"

DEPARTMENT

Computer Engineering

RESOURCE PERSON

Prof. N. J. Bhojane

(Infinity Solutions Pvt. Ltd. Pune)

TITLE/TOPIC

"Programming Languages - I (C, C++)"

DATE

05/06/2017 to 10/06/2017

**DURATION OF EVENT** 

10.00 AM to 5.00 PM

STUDENT PRESENT

30

**CO-ORDINATOR** 

Prof. P. S. Nagale

PROGRAM OBJECTIVE

"To understand concepts of C and C++"

CONTENTS

### A. Introduction of C Language

- 1. C Operators
- 2. Control Structure
- 3. Loops
- 4. Arrays
- 5. Function
- 6. Pointers

#### B. Beginning with C++

- 1. Tokens, Expression and Control Structures
- 2. Function in C++
- 3. Classes and Objects
- 4. Operator Overloading
- 5. Inheritance
- 6. Pointers, Virtual Functions and Polymorphism
- 7. Working with Files
- 8. Templates
- 9. Exception Handling

PROGRAM OUTCOMES

Students will understood the concept of C language and

C++ Programming Language:

Photo During Session



Prof. P. S. Nagale Co-ordinator



Prof. M. B. Wagh



## **Department of Computer Engineering**

#### SYLLABUS for Workshop on "PROGRAMMING LANGUAGES-I (C, C++)"

#### **PART A**

#### **Introduction of C Language**

- C Programming Under TurboC
- Working under LINUX
- Introduction to C compiling under LINUX
- Compilation Steps
- Introduction to anatomy of Simple C program

#### **C** Operators

- Arithmetic Operators
- Relational Operators
- Logical Operators
- Unary Operators
- C language Operator Precedence Chart
- Declaration of Storage Class

#### **Character Variable**

- ESCAPE character (OR) Special Character
- Readymade functions to manipulate Symbolic Information

#### PART B

#### **Control Structure**

- The if condition
- Labels
- The goto statement
- Switch Construct

#### While Loop

- The while loop
- The break statement
- Continue Statement
- Nested While Loops

#### The do-while Loop

For Loop

**PART C** 



#### Arrays

- One dimensional Array
- Two Dimensional Array
- Multi- dimensional Array

#### **Function**

- Introduction
- Execution of program using Function
- Passing 1-D Array
- Passing 2-D Arrays to Function

#### **Recursive Functions**

- Introduction
- Mutual Recursive
- Tail Recursive

#### **Pointers**

- Introduction
- Passing Pointers to Functions
- Dynamic Memory Allocation
- Precedence of Operators on Pointers and Arithmetic of pointers

#### PART D

#### **Beginning with C++**

- Introduction
- Simple program in C++
- Structure of C++ Program
- Compilation and Linking

#### **Tokens**, Expression and Control Structures

- Tokens
- Basic Data types
- User-defined Data types
- Derived Data types
- Scope Resolution Operator

#### Function in C++

- Introduction
- Inline Function
- Function Prototyping
- Call By Reference
- Inline Functions
- Function Overloading
- Friend Function

#### **Classes and Objects**

- Introduction
- A C++ program with classes
- Arrays within classes
- Use of Data members and member functions



#### **PART E**

#### **Constructors and Destructors**

- Introduction
- Constructors
- Parameterized Constructor
- Copy Constructors
- Constructor with Default Argument
- Destructors

#### **Operator Overloading**

- Introduction
- Defining Operator Overloading

#### **Inheritance**

- Introduction
- Defining Derived Classes
- Types of Inheritance

#### Pointers, Virtual Functions and Polymorphism

- Introduction
- Pointers
- Pointers to Objects
- This Pointer
- Pointers to derived classes
- Virtual Functions

#### **PART F**

#### **Working with Files**

- Introduction
- Classes for File Stream Operators
- Opening and Closing Files
- Detection end-of-file
- File Pointer and their manipulations
- Updating Files
- Error Handling during File Operations
- Command Line Arguments

#### **Templates**

- Introduction
- Class Templates
- Function Templates

#### **Exception Handling**

#### Introduction

- Basics of Exception Handling
- Exception Handling Mechanism
- Throwing Mechanism
- Catching Mechanism
- Rethrowing Mechanism





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### **Department of Computer Engineering**

Workshop on "Programming Languages-I (C, C++)".

#### Student Feedback Form

Students are required to rate the course on the following attributes using the 4 -point scale shown.

Course: [tick (✓) in the relevant cell]

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
1.	Overall rating of the course content	~			
2.	Course objectives were clear		1		
3.	Clarity and relevance of textual reading material				
4.	The teacher was effective in communicating the content of the course			~	
5.	The teacher responded to questions in an informative, appropriate and satisfactory manner.				
6.	Do you have any suggestions for future workshops that you would like us to organize?	NO 5	uggest	-100	
	Would you recommend this course to other students?	Yes [			
Any	y Other Comments- Doubt cle	eoted,	Cond	ept cle	eated.

### Rajgad Dnyanpeeth's

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# CERTIFICATE

This is to certify that Tanuja D. Yadav
from Department of Computer Engg. has attended
One week workshop Programming Language at this (cf c++)
College on 5th to 10th June 2017

Co - Ordinator

Principal

Rajgad Dnyanpeeth's

Shri Chhatrapati Shivajiraje College of Engg.

Dhangawadi. Pune-412206

# Rajgad Dnyanpeeth's

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# **CERTIFICATE**

This is to certify that Diptee Arun Damqude
from Dept. of Computer Engg. has attended
One Week Workshop on Programming Languages-Int this (cfc++)
College on 5th to 10th June 2017

Co - Ordinator

P**Pricipipal**Rajgad Dnyanpeeth's
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