7.1.15 The institution offers a course on Human Values and professional ethics:

Various courses are offered by the institute in all branches on human values and professional ethics. The blood donation camp, Fire Safety program, Awareness and Importance of Road safety program in the college to express the feeling towards the people in the society The College organizes the program in nearby villages to teach the people about the Digitalization.

Human values and professional ethics related program:

Sr.No	Document Details	Year	Remark
1	Blood Donation Camp	2017-18	
2	Awareness of Road Safety Program	2017-18	
3	Importance of Road Safety & Traffic Management	2016-17	
4	Awareness of Digitalization Program	2016-17	
5	Blood Donation Camp	2015-16	
6	Blood Donation Camp	2014-15	

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati 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)

Date: 07.01.2018

NOTICE

All staffs of cultural committee members are hereby informed that, staff meeting is schedule on 08/01/2018 in Board Room at 4.00 pm to discuss about 11th jan 2018 blood donation camp.

Meeting Agenda:

- To discuss planning of blood donation camp
- To discuss about arrangement in seminar hall for blood donation camp

Asst. Prof. D. U. Dalvi

Cultural Secretary

Prof. Dr. S.B. Patil

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati 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)

BLOOD DONATION CAMP

DEPARTMENT: **All** CLASS: **F.E/S.E/T.E/B.E-2018**

TITLE/TOPIC: **Blood Donation Camp**

DAY & DATE: **Thursday 11/01/2018**   DURATION OF EVENT: **5hrs**

STUDENT/ STAFF PRESENT: **76**

CO-ORDINATOR: **Asst. Prof. D.U. Dalavi.** (Cultural Secretary)

OBJECTIVE:To create awareness in the young minds of the students regarding the health benefits by blood donation and helping to needful peoples by donating blood.

"Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College Of Engineering" successfully organized the event on the auspicious birthday of honorable Anantraoji Thopate founder president of SCSCOE with the help of *"ACHARYA ANANDRISHIJI PUNE BLOOD BANK"*. On morning at 10.00 am all students and staff gather at seminar hall. Event was started with speech of honorable Managing Trustee Mr. Shantilal Suratwala. After that students and teachers started to presents their Speech about the importance of blood donation.

After that Group of blood bank members started to collect the blood with proper test of hemoglobinand blood group.

The program was concluded by the speech of SCSCOE Principal Prof. Dr. S. B. Patil at the end, Prof. D. U. Dalavi thanked all the students and staff for their enthusiastic participation in the event.

PHOTO'S DURING EVENT:

Staff And Students During Blood Donation

Asst. Prof. D.U.Dalavi

Event Co-Ordinator

Prof. Dr. S.B. Patil

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.,
Dhangawadi, Pune-412206

|| प्रज्वलितो ज्ञानमयः प्रदीपः ||

Rajgad Dnyanpeeth's
RAJGAD DNYANPEETH TECHNICAL CAMPUS
SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING
S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune (Maharashtra)

DEPARTMENT: **All**   CLASS: **F.E/S.E/T.E/B.E**

DAY & DATE: **Monday 11/01/2018**   DURATION OF EVENT: **5hrs**

PLACE: **Seminar hall**

BLOOD DONATION

PARTICIPANTS RECORD

STUDENTS LIST:

SR NO	NAME OF THE DONAR	CLASS	SIGN
1.	Desphande Prathmesh vikas	SE E&TC	Pd
2.	Zore Vajbhav Pandurang	BE MECH	Zor
3.	Dagade Pramod Bhaguji	TE MECH	Dagad
4.	Pawar Rohan Suryakant	TE COMP	RRS
5.	Neurise Akshay sahebrao	BE E&TC	N&
6.	Patil Pankaj Naresh	SE E&TC.	Patil
7	Hulwan Tushar Hanmant	BE MECH	H
8	Sakurde gaurav p.	B.E. Mech.	Sakurde
9.	Yadav Dhananjay Julindar	TE Comp	Y
10	Nile vijay shivaji	S.E. E&Tc.	Nile
11.	More kishor sambhaji	SE E&TC	MK
12.	Abhishek Sunil Shinde	FF Civil	AS
13.	Gadade shravan chantaram	F.E comp	Shravan
14.	Gaikwad Jalindar suresh	TE MECH	Gaik
15.	Jadhav Ashish suresh	FE comp	JS
16	Pawar Avdhoot shankar	S.E. EN&Tc	Pawar
17	gaikwad Vrushab.s	F.E.Mech.	gaik
18	Talekar videsh k.	B.E. Mech.	Tiv
19	Jadhav Tejas Madan	SE MECH	Teja
20.	Bhosale Prashant Pradip	SE Mech	Bh
21]	Shahapure fam Prabhakar	BE E&TC	PShanama
22]	Dhamal Rakshanda Vijay	BE B&TC	DDhay.
23]	Chavan Om lear Ramesh	SE B&TC	Chavan
24]	Chavan Amit vilas	TE B&TC	AVhavan

SR NO	NAME OF THE DONAR	CLASS	SIGN
25.	More Sushant Avinash	SE MECH	Mlg
26.	Shinde Abhishek laxman	SE Mech	Shine
27.	Pawar Snehal Dilip	T.E. E&TC	Pomp
28	Maske Prasad dilip	TB B&TC	AAPhGMmask
29]	Deshmukh Awadhut Ankush	BB Comp	PSJagtae
80.	Jagtap Manojkumar Shivajio	BB Comp	Sap
31)	Sarwade Vikrant A.	FF Comp.	SAP
32)	Bhosale Akshay prashant	BE comp	BAP
33]	Kumbhar Akshay Gururtev	SE Comp	KAG
34)	Lad vishal Duttatray	TE comp	L.V.D
35)	Malekar Ajit Nattu	TE Comp	AD
36)	Yadav pooja Shivaji	SE E&TC	XP
37)	Salunkhe Akash vasant	SE mech	SAP
38)	surve omkar shashank	SE comp	SS
39)	Yadav Krishna Ramdhani	SE Comp	AY
40)	waghmode Vikram R.	SE Comp	Vikrant
41)	walgude Narayan K.	TF Comp	walgude
42)	Vikrant Prabhakar J	TE mech	Prabhakar
43)	Gole Mayur Mohan	BE E&TC	GMayur
44)	Nande Kiran Vikas	SE E&TC	KiranN.
45)	Ritesh Arvid Shinde	FE	Shinde
46)	Sumit Kalyan Arkade	FE	Arkade
47)	Tapare laksham pooja	FE	Pooja
48)	Vishal Sudhir Kshirsagar	FE	VKshirsagar
49)	Rohit chhandrakant Rajamane	FE	Rohit
50)	Bachal Ketaki Ramesh	SE E&TC	K.R.Bachal
51)	Khatmoe Aasti sahdev	SE E&TC	AKhatmore
52)	Salgar Dipali Devidas	SE E&TC	Dipali
53)	Tawal Nita Subhash	SE E&TC	Ny
54)	Jagtap Aradhya Ashok	BE Mech	Aradhya
55)	Patil Sai Sunil	BE mech	Sai
56)	Chandalmal Rohit A.	TE Mech	Chandalmal
57)	Bhosale Ashish	TE mech	Ashish
58)	Patil Ketan Rajendra	TE mech	KPatil
59)	Mhetre Shubham	TE mech	Mhetre
60)	Naik Akshay	TE mech	AN
61)			
62)			
63)			
64)			
65)			

TEACHING & NON-TEACHING STAFF:

SR NO	NAME OF THE DONAR	DEPARTMENT	SIGN
1)	Prof. T.M. Dudhane	E&TC	
2)	Prof. R.B. Raut.	FE	
3)	Prof. D.U. Dalavi	E&TC	
4)	Prof. A.K. Kondharkar	FE	Akondharkar
5)	Prof. L.M. Sagale	E&TC	Sangate
6)	Prof. T.K. Pawar	Mech	
7)	Prof. A.R. Bobade	FE	A Bobade
8)	Prof. S.B. Kondharkar	FE	
9)	Prof. M.S. Sapre	E&TC	
10)	Prof. S.M. Jadhav	COMP	
11)	Prof. M.B. Wagh.	COMP	
12	Prof. S.M. Jadhav	comp	
13)	Prof. S.K. Pawar	Mech	
14)	Prof. L.M. Sagle	E&TC	
15)	Bhelke Mahesh	COMP	
16)	Kamble Ampl	E&TC	

Prof D.V. Dalavi

Event Co-ordinator

ACHARYA ANANDRISHIJI PUNE BLOOD BANK

प्रति ,

दिनांक :१२ जानेवारी 2018

प्राचार्य ,

रायगड ज्ञानपीठ टेकनिकल कॅम्पस,

श्री छत्रपती शिवाजीराजे कॉलेज ऑफ इंजिनीरिंग अँड   ,

धांगवाडी ,तालुका- भोर , जिल्हा – पुणे.

विषय : रक्तदान शिबीर संयोजनाबद्दल आभारपत्र.

मा.महोदय ,

आपल्या रायगड ज्ञानपीठ टेकनिकल कॅम्पस, श्री छत्रपती शिवाजीराजे कॉलेज ऑफ इंजिनीरिंग या महाविद्यालयात दिनांक. ११ जानेवारी २०१८ रोजी श्री अनंतरावजी थोपटे , माजी मंत्री महाराष्ट्र राज्य ,संसथापक अध्यक्ष - राजगड ज्ञानपीठ यांच्या वाढदिवसानिमीत रक्तदान शिबीर आयोजन करण्यात आले होते .सदर शिबिरात ७६ विद्यार्थी व शिक्षक यांनी रक्तदान करून शिबिरास प्रतिसाद दिला.

आपण हा सामाजिक उपक्रम आपल्या महाविद्यालयात राबविल्यामुळे ब्लड बॅकेस अनेक रुग्णांना मदत करता आली .

रक्तदान हि एक राष्ट्रीय चळवळ आहे.ह्या चळवळीस सहकार्य केल्याबद्दल आचार्य आनंदरीशीजी पुणे ब्लड बँक आपली सदैव आभारी आहे.

असेच सहकार्य दरवर्षी लाभावे हि विनंती.

धन्यवाद .

हिना गुजर-सुरतवाला ,

जनसंपर्क व प्रशासक प्रमुख

Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engineering
Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra and Affiliated to Savitribai Phule
Pune University, Pune (ID. PU/PN/Engg./376/2009), DTE CODE: EN3624

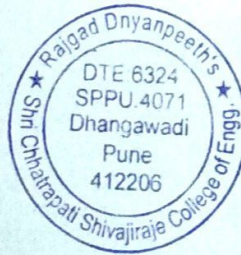| **Anantrao Thopte** | **Sangram Thopte** | **Dr. Bhagyashri Patil** | **Dr. S. B. Patil** |
| Founder President, Ex. Edu. Minister | MLA, Executive President | Hon. Secretary | Principal |

Since - 1972

To,

The Coordinator,

NAAC, Bengaluru

Subject : Translation letter about Blood Donation Camp

Respected Sir/Madam,

Acharya Anandrishiji Blood Bank awarded our institute with Trophy as well as Appreciation Letter .We had organized a Blood Donation Camp dated on 11th Janaury 2018 in association with Acharya Anandrishiji Blood Bank,Pune. Our efforts to motivate the volunteers paid rich dividends in creating social awareness. So we had successfully collected 76 units of blood . Both the students and faculty took participation in this event.

Thank you.

Prof. Dr. S. B. Patil

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.
Dhangawadi, Pune-412206

(Seal: Rajgad Dnyanpeeth's DTE 6324 SPPU 4071 Dhangawadi Pune 412206 Shri Chhatrapati Shivajiraje College of Engg.)

ACHARYA ANANDRISHIJI PUNE BLOOD BANK

191/192 Sadashiv Peth, S. M. Joshi Foundation, Near Patrakar Bhawan, Pune 411 030
Tel. : (020) 2453 7627   Mobile : 7709866418   Email : aapunebloodbank@gmail.com

LIC No.: PD - 30

Certificate

This is to Certify that

RAJGAD DNYANPEETH TECHNICAL CAMPUS SHRI CHHATRPATI SHIVAJIRAJE COLLEGE OF ENGIN., PUNE.

arranged a blood donation camp for our blood bank

on 11ᵗʰ JANUARY, 2018 *and* 76 *persons donated blood on this occasion.*

We sincerely thank the organisers as giving blood is the gift of life.

Shantilal Suratwala
Managing Trustee

Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

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

NOTICE

Date: 10/01/2018

All teaching staff, non-teaching staff & Students is hereby informed that,

"Awareness of road Safety Program" is scheduled on 15 January 2018, sharp

10.00 am at seminar hall, so all students & faculties requested to be present for

program.

Asst. Prof. S. V. Bankar

Event Co- ordinator

Prof. Dr. S. B. Patil

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.,
Dhangawadi, Pune-412206

Awareness of Road Safety

DEPARTMENT: All   CLASS: S.E/T.E/B.E

<u>TITLE/TOPIC</u>: **Awareness of Road Safety**

<u>DAY & DATE</u>: - **15 Jan 2018**   **<u>DURATION OF SESSION</u>: 2 hrs.**

<u>STUDENT/ STAFF PRESENT</u>: **59/14**

<u>CO-ORDINATOR</u>: Prof. S. V. Bankar

<u>OBJECTIVE</u>:

Celebrating the road safety campaign was initiated by the ISS India HSE (Health Safety and Environment) in order to make people aware about the national road safety in the Indian subcontinent. ISS India had declared to celebrate the Road Safety Week all through the country in the first week of the month of January. The aim of this campaign was to emphasize and accentuate people about the need of safe roads travel by applying just simple rules

<u>DESCRIPTION</u>:

The aim of celebrating the campaign road safety week is to promote the road safety measures in the community, schools, colleges, work places, on roads and o decrease and completely remove out the road accidents, road accident death and injury cases by applying the road safety measures. To encourage all the travelers to follow the traffic rules and wear helmets and seat belts while driving. To aware the people about the speed limit of the vehicles to prevent road accidents. To maintain the speed and required distance from other vehicles. To aware people that do not drink, do not drive when tired and do not use phones or radios while driving

of Department, which added to the feel of the event, they also took part in the event and planted trees. Tree planting event connected the students to the benefits of trees and fostered environmental sensitivity in them. It also brought them closer to the environment.

Principal Prof. Dr. S.B.Patil all with all HOD's guiding the students throughout the event.

At end Prof. S. V. Bankar thanked all the students and staff for their enthusiastic participation in the event.

CONCLUSION:

This Session attempts to contribute to the body of knowledge on road safety. It is hoped that it will inspire and facilitate increased cooperation, innovation and commitment to preventing road traffi c crashes around the world.

PHOTO'S DURING SESSION :

Prof. S. V. Bankar

Event Co-ordinator

Prof. Dr. S. B.Patil

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati 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)

Importance of Road Safety & Traffic Management

DEPARTMENT: All   CLASS: S.E/T.E/B.E

TITLE/TOPIC: **Importance of Road Safety & Traffic Management**

DAY & DATE: - 11/01/2017   **DURATION OF SESSION: 3 hrs.**

STUDENT/ STAFF PRESENT: **40/10**

CO-ORDINATOR: Prof .S. V. Bankar

OBJECTIVE:

The objective of importance of Road Safety & Traffic Management Activity conducted in RDTC SCSCCOE Campus **is** achieving an optimal use of the transportation system with optimal safety for all road users & awareness credited in Students & Staff.

DESCRIPTION:

The aim of celebrating the campaign road safety week our campus arranged programme is Importance of Road Safety & Traffic Management to promote the road safety measures, Importance of Road Safety, Importance of Traffic Management in the community, colleges, work places, on roads.RDTC SCSCOE Staff & Students campaigning on Satara City Roads & Display Sign Boards & Distributing Pamphlets in Powaie Naka Chowk & S.T.Bus Stand, Satara City.

Following Points are discussed in Programme

1. **Sensitising drivers of all kinds :-**

   All activities will focus on sensitising drivers of all kinds, specially the two-wheeler riders. Many a times, it has been noticed that due to the carelessness of not wearing helmets, riders suffer severe head injuries and many later succumb to them. 90 percent of such accidents are fatal. This can only be minimised by adopting safety measures like the helmet. An awareness campaign has to be conducted for proving its importance. Apart from this, other road safety rules, traffic rules, and the importance of traffic signage are also to be impressed other drivers of different kinds of vehicles through various campaign methods.

2. Awareness regarding safe driving to Roadways College bus:-

It has often been noticed that the bus drivers of Road Transport Department drive rashly, leading to accidents. These drivers, especially on highways, tend to mix drinks with driving, which is risky as hundreds of lives are at stake. A campaign is required to educate and sensitise them, in which literature on road safety rules and a special booklet will be printed and distributed specifically for bus drivers.

OUTCOME:

This Programmed attempts to contribute to the body of knowledge on road safety & Traffic Management. It is hoped that it will inspire the students and Teaching & Non-Teaching Staff and facilitate increased cooperation, innovation and commitment to preventing road traffic crashes around the world.

PHOTO'S DURING CAMPAINING

Prof. S. V. Bankar

Event Co-ordinator

Prof. Dr. S. B. Patil

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg,
Dhangawadi, Pune-412206

Attendance sheet

Importance of Road Safety & Traffic Management
date — 11/01/2017

Sr. No	Name	Branch	Sign.
1	Bathe kelan Nathu	TE-civil	Rahul
2	Akshay laxman babar	TE mech	Babar
3	Dabelkar Peasad V.	TE-mech	Peasad
4	Babar Akshay Vijay	TC mech	Babar
5	chaudhari R..R.	E&TC	Ramesh
6	Akhade trupti shivaji	BE E&TC	trupti
7	chemtaye tushar Dorraray	T.E mech	tusu
8	Kumar Vaibhav	TE-civil	Vaibhav
9	Bansal Atul sanjay	T.E civil	Atul
10	Ghodake Amol Uttam	BE-E&TC	Amol
11	Bhelke pratik Rajendra	TE civil	Pratik
12	Borade A. A.	BE-comp	Bag
13	Bhosale Abhijit Vittal	BE-E&TC	Abhi
14	Awale Ashwini Dattatray	BE E&TC	Ashu
15	Ambhore Kajal Shrirum	BE E&TC	Kajal
16	Chore mahesh Vasant	BE-computer	Mahesh
17	Dalavi swapnil Gajanan	T.E-civil	Swar
18	Dhumal Priyanka. S.	T.E (civil)	Dhumal
19	Dalavi akshay Balaso	BE-E&TC	Akshay
20	Bhise jitendra Mahadev	TE civil	Bhise
21	puris Arjun Ramchndra	T.E civil	Arju
22	Kale Jayashri.	T.E civil	Jayshri
23	Devkate Ravaji. S.	TE (civil)	Ravaji
24	Bhosale megha. G.	T.E Civil	megha
25	Khupade vinayak vital	T.E civil	vinu
26	Bhilare tejas. S.	TE mech	tejas
27	Galande tejshwini Sadashiv	BE E&TC	Teju
28	Kamble Bitam	T.E civil	Am
29	patil Aniket Bhau.	T.E civil	Patil
30	memane Akanksha. A.	TE-civil	Akanksha
31	Array Tousib Kasambhai	B.B. com	Tousi
32	Gade sagar pandurang	BE-E&TC	Gade
33	Dhumal Tejashree Tanaji	BE comp.	DTeju

Rajgad Dhyanpeeth's
DTE:6324
SPPU:4071
Dhangawadi
Pune
412206
Shri Chhatrapati Shivajiraje College of Engg.

34	Bathe maya kisan	BE. E&TC	maya
35	Awade swaphil Rajendry	B.E. Com	Swap
36	Gade sagar pandurang	BE-E&TC	sagar
37	Dhobe Avinash parshuram	BE-computer	Dhobe
38	Dixit Aparna Avinash	BE comp.	DAparna
39	Awate Arati mohan	BE-computer	Arati
40	Bawe shumrao Rakaso	T.E. mch	S.B

Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

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

NOTICE

Date: 19/04/2016

All Students are hereby informed that, Awareness of Digitalization Program is scheduled on 22/04/2016. For planning and execution of program, meeting is arranged on 20/04/2016 at 11.00 am in seminar hall. All coordinator are instructed to attend the meeting without fail.

Prof. S. V. Bankar
Event Co-ordinators

Prof. Dr. S. B. Patil
Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.,
Dhangawadi, Pune-412206

Awareness of Digitalization

DEPARTMENT: All   CLASS: S.E/T.E/B.E

TITLE/TOPIC: **Awareness of Digitalization**

DAY & DATE: -   **22/04/2016**   **DURATION OF SESSION: 2 hrs.**

STUDENT/ STAFF PRESENT: **65/05**

CO-ORDINATOR: Prof.D.U.Dalavi

OBJECTIVE:

Digitalization which is the need of today's world is the result of innovations and technological advances. Every country is aiming to achieve digitalization to empower society in a better way. This Campaigning came as a dream project of the Indian government to remodel India digitally. This aim would be very difficult to achieve unless there is awareness amongst the rural people.

DESCRIPTION:

Digital India was launched by the Prime Minister of India Narendra Modi on 1 July 2015 with an objective of connecting rural areas with high-speed Internet networks and improving digital literacy. The vision of Digital India program is inclusive growth in areas of electronic services, products, manufacturing and job opportunities, etc. and it is centered on three key areas – Digital Infrastructure as a Utility to Every Citizen, Governance & Services on Demand and Digital Empowerment of Citizens.

The aim of celebrating the campaigning Awareness of digitalization is to promote connecting rural areas with high-speed Internet networks and improving digital literacy & Importance of Some of the facilities which will be provided through this initiative are Internet, Digital Locker, e-education, e-health, e-sign, e-shopping and national scholarship portal. As the part of Digital India.

Principal Prof. Dr. S. B. Patil all, with all HOD's guiding the Rural Peoples & Students throughout the event. At end Prof. D. U. Dalavi thanked all the students and staff for their enthusiastic participation in the event.

OUTCOME:

This Session attempts to contribute to the body of knowledge on Internet, Digital Locker, e-education, e-health, e-sign, e-shopping and national scholarship portal. It is hoped that it most of the Students & People are aware about initiative about Digital India.

PHOTO'S DURING :

1

Photos During Session on Awerness of Digitalization

Prof.D.U.Dlavi

Event Co-ordinator

Prof. Dr. S.B.Patil

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.,
Dhangawadi, Pune-412206

Shri Chhatrapati Shivajiraje College of Engineering

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

Attendance Sheet

Event Name: Awareness of Digitalization   **Date:** 22-04-2016

Sr. No	Name	Branch	Signature
1	Asha dhermendra Thorave	TE-civil	Thore.
2	swati sham Bhokase	TE-civil	Sbhokane.
3	Avhad siddharth Babar	BE-mech	Avhad
4	Akshay chandrakarr Dhore	T.E.civil	A
5	Bandal ganesh Ashok	BE-mech	Ganesh
6	Bankar vijay A.	BE mech	Bankar
7	vijay Rajaram chadhri	T.E civil	vijay
8	Alkari Tushar yuvraj	BE mech	Tush.
9	Awaghade ganesh Balu	BE mech	ganey
10	Abhijit shatrughna babar.	TE-civil	Abhi
11	Abhijit P. DAS	Be-mech.	Das
12	BADE Namdev maruti	Be-mech	Bade
13	kadam Kranti. A.	TE-E&TC	Kranti.
14	Anarase Amol Gahininath	BE mech	A.G.A.
15	Dalavi akshay balaso	TE-E&TC.	Dakshay.
16	Ceade sagar pandurang	IE E&TC	Ceade
17	Nikhil Bhanudas bhosale	T.E.civil	Nikh
18	Aditya Nandkumar kamate	TE mech	Adik
19	Choudhary Paresh Ravindra	TE E&TC	Paresh
20	Bhadekar ganesh. S.	mech-BE	Ganesh.
21	Pranita Prakash Bandal	TE-civil	Bandal
22	Ambavale pratik Ramchandra	TE mech	Ambavale
23	chaudhari paresh R.	T.E e&tc	Pari
24	Awale sangram Laxman	TE-mech	Sangram
25	Avhad siddharth. B.	BE-mech	siddharth
26	Andrat Dylan Austin	BE mech	Dylan
27	Gole Mayur Mohan	TE-E&TC.	Gole

28	Adaf Ashok shankar	BE-mech	Ashok.
29	Bhosale ABhijit	TE E$TC	Bhosale
30	Bidve varrad Dhanjay	TE E$Te	Varad
31	Amit shiraji. Mahargare	BE-mech	Shivaji
32	B Ghodake Amol	TE E$TC	Amol
33	Akshay prabhakar sunil	TE mech	Akki
34	Ahire vishaf suraj	BE-mech	Vishaf
35	Pankaj Anil Dhamkale	TE civil	Pankjreo
36	amit Jaykumar bardade	TE civil	bardade
37	Jahav Avinash ARun	TE E$rc	Avinash
38	Avsale Ashwini Dattatray	TE E$TC	Ashwini
39	Bagul. S. R.	BE-mech	Bagul
40	Bade Namdev Maruti	BE-mech	Namdev
41	Rahul Tukaram chavan	TE-civil	chava(R)
42	Bagwan sumir abdu.	B.E. mech	sur
43	Ghodake Amol.	BE mech	Ghur
44	Adsul suraj dnyandev	BE mech	Adsul
45	Jasdale Akshay. B.	TE E$TC	Jadhav
46	Amir Chivaji mahungare	B.E mech	Am
47	Ambavale kajal shriram	TE E$TC	Ambhare
48	Aishwarya shubham swami	TE-mech	Swami
49	Jadhav snehal Laxman	TE E$Tc	sheka
50	Galande Tejaswini	TE. E$Tc	Teju
51	Awaghade kiran kailas	TE mech.	kir
52	Ahire vishal sunil	TE mech	Wowia
53	Badave Nitin ulhas	BE-mech	Bad
54	Akhade Trupti shivaji	TE E$Tc	Akhade
55	Aware Ashwini Darramy	TE E$Tc	Aw
56	Akshay chandrakant dhotare	TE-civil	Akshy
57	Gade Sagar Pandurang	TE-E&TC	sagar
58	Akase hashal Bharat	BE-mech	Bashu
59	Kadam Rohit ·S.	TE E$Tc	Rudra
60	Atole prashant. S.	BE mech	prashant
61	Akshay Zunjar Dhadave	TE civi	AZD

62	Jintendra Mahadeo Bhise	TE-civil	Bhise
63	Bandal ganesh Ashok	BE-mech	ganesh
64	ATole prashant Sunil	TE mech	prashant A
65	Bathe maya kisan	TE-ERYC	maya

Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

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

Date: 04.11.2015

NOTICE

All staffs of cultural committee members are hereby informed that, staff meeting is schedule on 05/11/2015 in Board Room at 4.00 pm to discuss about 07th November 2015 blood donation camp.

Meeting Agenda:

- To discuss planning of blood donation camp
- To discuss about arrangement in seminar hall for blood donation camp

Asst. Prof. D. U. Dalvi

Cultural Secretary

Prof. Dr. S.B. Patil

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.,
Dhangawadi, Pune-412206

Date: 04.11.2015

NOTICE

All staff and students of SCSCOE are hereby informed that, Blood Donation Camp schedule on 07/11/2015 in seminar hall at 11.00 am for the auspicious birthday of honorable Mr. Sangramdada Thopte. All students are requested to actively participate in the social activity.

Asst. Prof. D. U. Dalvi

Cultural Secretary

Prof. Dr. S.B. Patil

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.,
Dhangawadi, Pune-412206

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

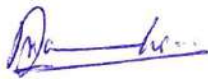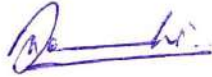Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

BLOOD DONATION CAMP

DEPARTMENT: All   CLASS: **F.E/S.E/T.E/B.E-2015-16**

TITLE/TOPIC: **Blood Donation Camp**

DAY & DATE: **Monday 07/11/2015**   DURATION OF EVENT: **5hrs**

STUDENT/ STAFF PRESENT: **62**

CO-ORDINATOR: **Asst. Prof. D. U. Dalavi.** (Cultural Secretary)

OBJECTIVE: To create awareness in the young minds of the students regarding the health benefits by blood donation and helping to needful peoples by donating blood.

"Rajgad Dnyapeeth's Shri Chhatrapati Shivajiraje College Of Engineering" successfully organized the event in association with Ma. Sangramdada Thopte Gaurav Samiti on the auspicious birthday of honorable Sangramdada Thopte with the help of " *AKSHAY BLOOD BANK, SATARA"*. On morning at 10.00 am all students and staff gather at seminar hall. Event was started with speech of respected Managing Trustee of blood bank Mr. Sanjay kumar Shinde. After that students and teachers started to presents their Speech about the importance of blood donations.

After that Group of blood bank members started to collect the blood with proper test of hemoglobin and blood group.

The program was concluded by the speech of SCSCOE Principal Prof. Dr. S.B. Patil. At the end, Prof. D. U. Dalavi thanked all the students and staff for their enthusiastic participation in the event.
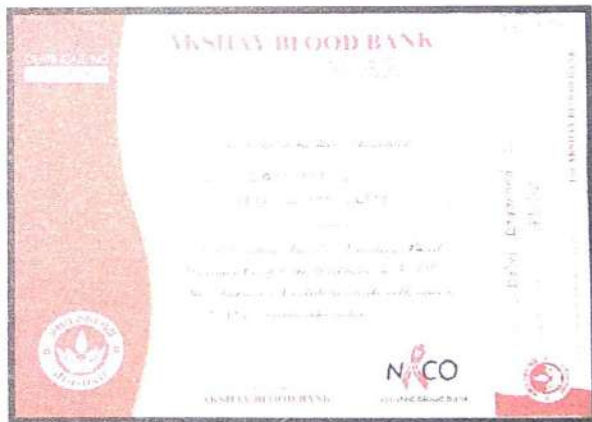
PHOTO'S DURING EVENT:

STAFF AND STUDENTS DURING BLOOD DONATION

STAFFS AND STUDENTS DURING BLOOD DONATION

CERTIFICATE FOR APPRECIATION

Asst. Prof. D.U.Dalavi

Event Co-Ordinator

Prof. Dr. S.B. Patil

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.,
Dhangawadi, Pune-412206

॥ प्रज्वलितो ज्ञानमयः प्रदीपः ॥

Rajgad Dnyanpeeth's
RAJGAD DNYANPEETH TECHNICAL CAMPUS
SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING
S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune (Maharashtra)

DEPARTMENT: **All**

CLASS: **F.E/S.E/T.E/B.E-2015-16**

DAY & DATE: **Friday 07/11/2015**

DURATION OF EVENT: **5hrs**

PLACE: **Seminar hall**

BLOOD DONATION

PARTICIPANTS RECORD

STUDENTS LIST:

SR NO	NAME OF THE DONAR	CLASS	SIGN
01	Chor Mahesh Vasant	TE COMP	Chor
02	Shweta Balasaheb Thorat	TE MECH	Shweta
03	Raut Sachin Malhari	BE Mech	M.Raut
4	Nalawade Ajit Dhondiram	TE MECH	ANalawade
5	Pathan shahanawaj Jakir	TE COMP	Djakir
6)	Swanand Tukaram Yadav	TE COMP	Syadav
7)	Sonwane Akashay Ashok	TE MECH	Akshay
8)	Sonakavade Viveko Prakash	TE mech	vivek
09)	Surase Mahadev Kisan	TE MECH	M.surase
10)	Shaikh Moshin Rukmuddin	BE mech	Shaikh
11)	Narsude Mayur Ashok	TE Mech	Narsude
12)	Amit Sonba Nasurde	TE MECH	KAkit
13)	Oswal Rahul Prakash	TE mech	Oswal
14	Patankar Amey R	TE Comp	Patankar
15)	Wadekar Nilesh Bapusaheb	BE MECH	Nacadekar
16)	Wagdole Akshay Rajendra	BE MECH	Awar
17)	wagh. Kedar Vinod	BE mech	Kwaghu
18)	wagdole narayan kanta	SE comp	Naghu
19)	Bhosale Akshay Prashant	SE Comp	Akshay
20)	Awale Shekar Kishor	SE mech	Awale
21	Ladkat Akshay Rejendra	BE MECH	ARlao
22)	Mahajan suraj Rajendra	BE MECH	smp
23)	Bathe pooja prashant	SE Comp	B
24]	Karande machhindra Barikrao	BE E&TC	KHMB
25)	Yadav Sosanand Tukaram	BF Comp	SK
26)	Kolapal shrikumar sureshrao	BF Comp	SK

EN- 6324
PU/PN/Engg./
376/2009

SR NO	NAME OF THE DONAR	CLASS	SIGN
27	Kamble Satish R.	SE Comp.	Kamble
28	Kolapar Shrikumar.	BE Comp.	Kolpar
29	Bhosale Akshay Prasha.	SE.Comp	BAKG.
30	Porthe Akshay Prashant	S.E.E&TC	Aporthe
31	Pawar Pooja Mukund	S.E.E&TC	MRP
32.	Anarase Tejas dilip	SF. mech.	ATN
33	Aradhye Shubham Balasaheb	SE. Mech	ASR
34	Patankar Amey Ramkrishna.	BE COMP	Patankar.
35)	Anarase Tejas DILIP	SE mech	Anarase
36	Aradhye Shubham Balasaheb	SE Mech	Aradhe
37)	Awale Shekhar Kishor	S E Mech	Awale
38)	Gaikwad Ashishkumar S.	SE Mech	Ashish
39)	Gaikwad Ganesh Subhash	SF mech	SGanesh
40)	Dudhane Akshay Ashok	BE E&TC	DAA
41)	Gaikwad Avinash Suresh.	B.EE&TC.	Amukul
42)	Gaikwad Ganesh Subhash	BE E&TC	Gesse
~~43~~	~~Awade Sweta Sharad~~	~~FF Mech~~	SAwade
	Kutwal Swapnil Rajendra	FE	Swapnil
43)	Mokashi Anand Amrul	BE COMP	AAmokashi
44)	Borade Chetan	BE COMP	Borade.
45)	Attar Tousif knsambhai	BE Comp	AtusiR.
46)	Ombale Suraj Somnath	S.E. E&TC	SOmbale
47)	kolpar Shrikumar sureshrao	B.E comp	Skolpar
48)	Ambore Kajal Shrisan	TE E&TC	KAmbore
49)	Awale Ashwini .D.	TE. E&TC	Awale
50)	Bade Deepak	TE·E&TC	BD
51)	Sagar Vedpathak	FE	Vedpathak
52)	Kunal. Y. Khatape	FE Mech	K.Khatape

TEACHING & NON-TEACHING STAFF:

SR NO	NAME OF THE DONAR	DEPARTMENT	SIGN
01)	D. V. Dalavi	E&TC	
02)	B.D. Thorat	Comp	
03)	R.B. Raut	FE	
04)	J.J. Bandal	E&TC	
05)	Mahesh Bhelke	Comp	
06)	L.M. Sagale	E&TC	
07)	M.S. Sapte	E&TC	
08)	Amol Kambale	E&TC	
09)	J.G. Kale	FE	
10)	G.S. Jadhav	Civil	
11)	S.B. Kondhalkar	FE	

Prof. D.V. Dalavi

Event - Co-ordinator

Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

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

Date: 07.01.2014

NOTICE

All staffs of cultural committee members are hereby informed that, staff meeting is schedule on 08/01/2014 in Board Room at 4.00 pm to discuss about 10th Jan 2014 blood donation camp.

Meeting Agenda:

- To discuss planning of blood donation camp.
- To discuss about arrangement in seminar hall for blood donation camp.

Asst. Prof. D. U. Dalvi

Cultural Secretary

Prof. R. L. Khandagale

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.
Dhangawadi, Pune-412206

Date: 07.01.2014

NOTICE

All staff and students of SCSCOE are hereby informed that, Blood Donation Camp schedule on 10/01/2014 in seminar hall at 11.00 am for the auspicious birthday of honorable Anantrao ji Thopte Founder President of 'Rajgad Dnyanpeeth'. All students are instructed to actively participate in the social activity.

Asst. Prof. D. U. Dalvi

Cultural Secretary

Prof. R. L. Khandagale

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati 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)

BLOOD DONATION CAMP

DEPARTMENT: **All**   CLASS: **F.E/S.E/T.E/B.E-2014**

TITLE/TOPIC: **Blood Donation Camp**

DAY & DATE: **Friday 10/01/2014**   DURATION OF EVENT: **5hrs**

STUDENT/ STAFF PRESENT: **61**

CO-ORDINATOR: **Asst. Prof. D.U.Dalavi.** (Cultural Secretary)

OBJECTIVE: To create awareness in the young minds of the students regarding the health benefits by blood donation and helping to needful peoples by donating blood.

"Rajgad Dnyapeeth's Shri Chhatrapati Shivajiraje College Of Engineering" successfully organized the event on the osspacious birthday of honorable Anantraoji Thopate founder president of SCSCOE with the help of *"AKSHAY BLOOD BANK, SATARA".* On morning at 10.00 am all students and staff gather at seminar hall. Event was started with speech of respected Managing Trustee of blood bank Mr. Sanjaykumar Shinde. After that students and teachers started to presents their Speech about the importance of blood donations.

After that Group of blood bank members started to collect the blood with proper test of hemoglobin and blood group.

The program was concluded by the speech of SCSCOE Principal Prof. R. L. Khandagale.   At the end, Prof. D.U.Dalavi thanked all the students and staff for their enthusiastic participation in the event.

PHOTO'S DURING EVENT:

Staff And Students During Blood Donation

STAFFS AND STUDENTS DURING BLOOD DONATION

AKSHAY BLOOD BANK

S.No.508/22, Near State Bank, Opp. Hotel Nirmal, Sadar Bazar, Satara. Pin. 415 002. LIC No. - PD/34
PHONE : 02162 - 230730 / 329293

BLOOD DONATION CARD

Name : Sawant Digambar D.

Address : D. Pune

Blood Group : **A** Rh pos

Concession Coupon

Name :

Date of Donation : 10.1.14   Valid upto 9.1.15

Blood Bag No.: 2273

...SHAY BLOOD BANK

.../22, Sadar Bazar, Near State Bank, Opp. Hotel Nirmal, Satara 415 002.
...2162 - 230730 / 329293 Email : abbsatara@gmail.com Lic No : - PD / 34

...ificate of Merit

...ertificate has been Awarded to

Mr. Sawant Digambar D.

For Donating Blood in Voluntary Blood Donation Camp
to this blood bank on **10th Jan. 2014**
This Impressive Contribution to the noble cause is highly
appreciated.

DIRECTOR
AKSHAY BLOOD BANK

CERTIFICATE FOR APPRECIATION

Asst. Prof. D.U.Dalavi

Event Co-Ordinator

Prof. R. L. Khandagale

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.,
Dhangawadi, Pune-412206

Rajgad Dnyanpeeth's
RAJGAD DNYANPEETH TECHNICAL CAMPUS
SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING
S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune (Maharashtra)

DEPARTMENT: **All**   CLASS: **F.E/S.E/T.E/B.E 2013-14**

DAY & DATE: **Friday 10/01/2014**   DURATION OF EVENT: **5hrs**

PLACE: **Seminar hall**

BLOOD DONATION

PARTICIPANTS RECORD

STUDENTS LIST:

SR NO	NAME OF THE DONAR	CLASS	SIGN
1	Chaudhari Paresh R.	SE E&TC	Paresh
2	Dalvi Akshay Balaso	SE E&TC	Akshay
3	Deshmukh Avadhut A.	SE E&TC	DAvadh
4	Pawar Nilesh Ambuno	SE E&TC	Nilesh
5	Pinghe Harshal R.	TE Comp	Pinghe
6	Rasal Bhagyashri. J	TE Comp.	Rasal
7	Wadhkar Girish V	BE MECH	Girish
8	Gaotad pranav Dattatray	BE MECH	P.G
9	Gade Sagar pandurang	SE E&TC	G.S.P
10	Ghore Sagar Shivaji	SE E&TC	SG
11	Gole mayur mohan	SE E&TC	MG
12	Lilhalakar Ashish Ramesh	SE Comp	ALR
13	Attor Tousif Kasombhai	SE Comp	TK
14	Dhumal Ankiet R.	SE Comp	Dhum
15	Pawar Surykant B.	BE E&TC	Pawar
16	pednekar Yogesh Ashok	BE E&TC	PYA
17	Raut Deepak shivaji	BE E&TC	DDS
18	Sopal Pankaj Balasaheb	BE E&TC	Spalaj
19	Sawant digambar Dnyaneshwar	BE B&TC	Sdp
20	kunjir Rupesh Pajaram	SE Mech	bRP
21	Lad Akshay Satish	S.E mech	Akshay
22	mahamuni Raviraj Dilip	S.E mech.	Raviraj
23	Bandal Tejashree Rohidas	SE comp.	Bandal
24	Lokhande samir Ajay	E&TC.	L.S.A
25	Manangare Tushar Tukaram	SE E&TC	MTM

SR NO	NAME OF THE DONAR	CLASS	SIGN
26)	Mahangare Tushar Tukaram	SE E&TC	ME
22)	KHAN Mohammadasif khussid	TE COMP	KR
28)	Chaudhari akshay ankur	SE Mech	Chudha
29)	Chaudhari Viki Suresh	SE mech	Viki
30)	Asgade Shrikant Shivaji	BE mech	Shirke
31)	Awari Avinash Jaydeo	Be mech	Ashu
32)	Pagal Abhijeet Amyashwar	BE med.	AbP
33)	Benke Sachinkumar P.	SE Comp	Sachin
34)	Tanse kalyani Lilas	BE E&TC	Tanse
35)	Borade Ajay A	SE Comp	Ajay
36)	Umate Dhiraj Arunrao	BE E&TC	RB
37)	Vaidya Sachin machhindra	BE E&TC	VSM
38)	Nevase Sachin S	BE mech	Nevase
39)	Khutwad Parikesheet D.	SE comp	Bhutarad
40)	Ukirde shrikant vashishtha	TE E&TC	USV
41)	Varude Amrut Suresh	T.E E&TC	VAS
42)	waghmode vikram Jagannath	TE E&TC	Wughde
43)	walhekar supriya suresh	TE E&TC	Shirahelaar
44	Aayesha Haider Shaikh	SE COMP	AShaik
45	Neha Suresh Mandadkar	SE comp	Nehi
46)	Kulkarni Shubham	SE E&TC	shubham
47)	Akshay Kakaso Zagade	FE	zagade
48)	Patis Akash	FE	Patil
49)	Bangar Pranav P	FE	Branan
50)	Dhobe Avinash	FE	

TEACHING & NON-TEACHING STAFF:

SR NO	NAME OF THE DONAR	DEPARTMENT	SIGN
1	Prof. T M Dudhane	E &TC	
2.	Prof. D.U. Dalvi	E &TC	
3.	Prof. S.K. Paunt	Mechanical	
4.	Prof. M.S. Sapte	E &TC	
5)	Prof. A.V. Deshmukh	E &TC	
6)	Prof. A.K. Kondhalkar	FE	
7)	Prof. S.B. Kondachellar	FE	
8)	Prof. R.B. Raut	FE	
9)	Prof. G.S. Jadhav	Civil	
10)	Prof. J.J. Bandal.	E &TC	
11)	Prof J.P. Borude	Mech.	
12)			
13)			

Prof. D. U. Dalavi

Event Coordinator

CRITERION 7 – Institution Values and Best Practices

Key Indicator - 7.1 Institutional Values and Social Responsibilities

7.1.15 The institution offers a course on Human Values and professional ethics:

Sr. No	Metric No	Department	Class	Semester	Name of Course	Year	Document Details	Remark
1		Civil Engineering	S.E.	I	Awareness to Civil Engineering Practices		Structure Syllabus	
2				II	Road Safety Management		Structure Syllabus	
3		Mechanical Engineering	S.E.	I	Value Education		Structure Syllabus	
4			T.E	II	Intellectual Property Right		Structure Syllabus	
5		E & TC Engineering	S.E.	I	Road Safety Management		Structure Syllabus	
6				II	Cyber Crime and Law		Structure Syllabus	
7	7.1.15		T.E.	I	Cyber and Information Security	2017 -18	Structure Syllabus	
8				II	Embedded System Design using MSP430		Structure Structure	
9		Computer Engineering	S.E	I	Environmental Studies		Structure Syllabus	
10				II	Intellectual Property Rights and Patents		Structure Syllabus	
11			T.E	I	Professional Ethics and Etiquettes		Structure Syllabus	
12				II	Digital and Social Media Marketing		Structure Syllabus	
13				II	Green Computing		Syllabus	

Principal
Rajgad Dnyanpeeth's
Shri Chhatrapati Shivajiraje College of Engg.,
Dhangawadi, Pune-412206

Savitribai Phule Pune University
S.E. (Civil Engineering) 2015 Course

Course Code	Course	Teaching Scheme Hours / Week			Semester Examination Scheme of Marks						Credit	
		Theory (TH)	Tutorials (TUT)	Practical (PR)	In-Sem	End-Sem	TW	PR	OR	Total	TH / TUT	PR/OR/ TW
201001	Building Technology and Materials	04	--	02	50	50	50	--	--	150	04	01
207001	Engineering Mathematics III	04	01	--	50	50	50	--	--	150	05	
201006	Surveying	04	--	02	50	50	--	50	--	150	04	01
201002	Strength of Materials	04	--	02	50	50	--	--	50	150	04	01
201003	Geotechnical Engineering	04	--	02	50	50	--	--	50	150	04	01
	Audit Course 1 Awareness to Civil Engineering Practices	--	--	--	--	--	--	--	--	--	Grade	
	Total	20	01	08	250	250	100	50	100	750	25	

Semester I

Note: For audit courses students are given certificate by the institutes based on the assignment submitted by them.

Abbreviations: TW: Term Work, **OR:** Oral, **PP:** Passed (Only for non credit courses), **NP:** Not Passed (Only for non credit courses).

Savitribai Phule Pune University, Pune
Second Year Civil Engineering (2015 Course)
Awareness to Civil Engineering Practices
Audit Course
(Certificate to be issued by institute based on performance assessment)

Civil Engineering is the oldest engineering profession comprising of a variety of sub-disciplines such as structural engineering, geotechnical, water resources, environmental engineering, construction, transportation etc. Undergraduate programmes are designed with different theoretical approaches on the application of basic sciences to solve different societal problems by engineering knowledge. However, there is a need to make the students aware about how the Civil Engineering industry operates and how theories taught in different courses are applied in practice. The students can learn from the experience gained from different workplaces such civil engineering consultancies, contracting companies, construction sites etc. The course aims to provide insight of the different practices followed by the industry such use of different contracts in civil engineering practice, local by-laws, duties and responsibilities of the Engineers, site records and diaries, Health and Safety practices on site, etc.

Course Objectives:
1) To provide basic overview of functioning of different civil engineering related industries / firms.
2) To provide awareness on application of different drawings, contract documents in civil engineering.
3) To provide insight of code of ethics, duties and responsibilities as a Civil Engineer.

Course Outcomes:
On completion of the course, learner will be able to understand
1) Different types of civil engineering industries and their functioning.
2) Applications of different documents, drawings, regulations in Civil Engineering industries.
3) Code of ethics to be practiced by a Civil Engineer and understand duties and responsibilities as a Civil Engineer
4) Different safety practices on the site.

Course Contents

1. Awareness lectures by professionals.
2. Visit to construction site/ architectural firms/ structural engineering firms etc.
3. Discuss on issues such as sustainability, eco-friendly techniques, use of locally available materials etc. directly related to techno economic development of society.

Guidelines for assessment

1. Presentation
2. Visit report
3. Group discussion

Savitribai Phule Pune University
S.E. (Civil Engineering) 2015 Course

Course Code	Course	Teaching Scheme Hours / Week			Semester Examination Scheme of Marks						Credit	
		Theory (TH)	Tutorials (TUT)	Practical (PR)	In-Sem	End-Sem	TW	PR	OR	Total	TH / TUT	PR/OR/ TW
201004	Fluid Mechanics I	04	--	02	50	50	--	--	50	150	04	01
201005	Architectural Planning and Design of Buildings	04	--	02	50	50	--	50	--	150	04	01
201008	Structural Analysis I	03	01	--	50	50	--	--	--	100	04	--
207009	Engineering Geology	04	--	02	50	50	50	--	--	150	04	01
201007	Concrete Technology	04	--	02	50	50	--	--	50	150	04	01
201010	Soft Skill	--		02	--	--	50	--	--	50	--	01
	Audit Course 2 Road Safety Management	--	--	--	--	--	--	--	--	--	Grade	
		19	01	10	250	250	100	50	100	750	25	

Note: For audit courses students are given certificate by the institutes based on the assignment submitted by them.

Abbreviations: TW: Term Work, **OR:** Oral, **PP:** Passed (Only for non credit courses), **NP:** Not Passed (Only for non credit courses).

Savitribai Phule Pune University, Pune
S.E. (Civil Engineering) 2015 Course

Road Safety Management
Audit Course
(Certificate to be issued by institute based on performance assessment)

Road transport remains the least safe mode of transport, with road accidents representing the main cause of death of people. The boom in the vehicle population without adequate road infrastructure, poor attention to driver training and unsatisfactory regulation has been responsible for increase in the number of accidents. India's vehicle population is negligible as compared to the World statistics; but the comparable proportion for accidents is substantially large.

The need for stricter enforcement of law to ensure greater safety on roads and an environment-friendly road transport operation is of paramount importance. Safety and security are growing concerns for businesses, governments and the traveling public around the world, as also in India. It is, therefore, essential to take new initiatives in raising awareness, skill and knowledge of students as one of the ibid stake holders who are expected to follow the rules and policies of the government in order to facilitate safety of individual and safe mobility of others.

Course Objectives:
1) To provide basic overview on road safety & traffic management issues in view of the alarming increase in vehicular population of the country.
2) To explain the engineering & legislative measures for road safety.
3) To discuss measures for improving road safety education levels among the public.

Course Outcomes:
On completion of the course, learners will:
1) Show changes in awareness levels, knowledge and understanding.
2) Demonstrate a change in attitudes / behavior e.g. against drink-drive.
3) Utilize remedial education for those who make mistakes and for low level offences where this is more effective than financial penalties and penalty points.
4) Improve road safety together leading to casualty reduction

Course Contents
1. Existing Road Transport Scenario
2. Accident Causes & Remedies
3. Road Accident Investigation & Investigation Methods
4. Vehicle Technology – CMVR & Road Safety
5. Regulatory / Legislative Provisions for Improving Road Safety
6. Behavioral Training for Drivers for Improving Road Safety
7. Road Engineering Measures for Improving Road Safety

Guidelines for Conduction (Any one or more of following but not limited to)
1. Guest Lectures.
2. Visits and reports.
3. Assist authorities like RTO for audits (e.g. Particular road safety audit as critical on-site assessment of the shortcomings in the various elements of the road).
4. Mini Project

Guidelines for Assessment (Any one of following but not limited to)
1. Written Test   2. Practical Test   3. Presentation   4. Report

Faculty of Engineering   Savitribai Phule Pune University

Structure of S.E. (Mechanical Engineering/ Automobile Engineering)
2015 Course

Semester-I

Subject Code	Subject	Teaching Scheme Hours/Week			Examination Scheme					Total Marks	Credits	
		L	Tut.	PR	In-Sem (online)	End-Sem	TW	PR.	Oral		Lect/Tut	PR/OR
207002	Engineering Mathematics – III	04	01	-	50	50	25	-	-	125	05	-
202041	Manufacturing Process-I	03	-	02	50	50	50	-	-	150	03	01
202042	Computer Aided Machine Drawing	01	-	02	--	--		50	-	50	01	01
202043	Thermodynamics	04	-	02	50	50	-	-	50	150	04	01
202044	Material Science	03	01	-	50	50	25	-	-	125	03	01
202051	Strength of Materials	04	-	02	50	50	-	-	50	150	04	01
202055	Audit course											
					--	--						
	Total	19	02	08	250	250	100	50	100	750	20	05
	Total of Part-I		29 Hrs				750				25	

Note: Material Science and Engineering Mathematics-III practical may be carried out fortnightly for two hours, so that the tutorial hours may be used as practical.

Semester-II

Subject Code	Subject	Teaching Scheme Hours/Week			Examination Scheme					Total Marks	Credits	
		L	Tut.	PR	In-Sem (online)	End-Sem	TW	PR.	Oral		Lect/Tut	PR/OR
202045	Fluid Mechanics	04	-	02	50	50	-	50	-	150	04	01
202047	Soft Skills	-	-	02	--	--	25	-	-	25	-	01
202048	Theory of Machines – I	04	01	-	50	50	25	-	25	150	04	01
202049	Engineering Metallurgy	03	01	-	50	50	-	-	25	125	03	01
202050	Applied Thermodynamics	04	-	02	50	50	-	50	-	150	04	01
203152	Electrical and Electronics Engineering	03	-	02	50	50	25	-	-	125	03	01
202053	Machine Shop – I	-	-	02	--	--	25	-	-	25	-	01
	Total	18	02	10	250	250	100	100	50	750	18	07
	Total of Part-II		30 Hrs				750				25	

Note: Theory of Machine-I and Engineering Metallurgy practical may be carried out fortnightly for two hours, so that the tutorial hours may be used as practical.

Audit Course1

In addition to credits courses, it is recommended that there should be audit course (non-credit course) from second year of Engineering. The student will be awarded grade as AP on successful completion of audit course. The student may opt for one of the audit courses, starting in second year first semester. Though not mandatory, such audit courses can help the student to get awareness of different issues which make impact on human lives and enhance their skill sets to improve their employability. List of audit courses offered in each semester is provided in curriculum. Student can choose one audit course from the list. Evaluation of audit course will be done at institute level. Method of conduction and method of assessment for audit courses is suggested.

The student registered for audit course shall be awarded the grade AP and shall be included such grade in the Semester grade report for that course, provided student has the minimum attendance as prescribed by the Savitribai Phule Pune University and satisfactory in-semester performance and secured a passing grade in that audit course. No grade points are associated with this 'AP' grade and performance in these courses is not accounted in the calculation of the performance indices SGPA and CGPA. Evaluation of audit course will be done at institute level itself.

(Ref-http://www.unipune.ac.in/Syllabi_PDF/revised-

2015/engineering/UG_RULE_REGULATIONS_FOR_CREDIT_SYSTEM-2015_18June.pdf)

Guidelines for Conduction and Assessment (Any one or more of following but not limited to)

- Lectures/ Guest Lectures
- Visits (Social/Field) and reports
- Demonstrations
- Surveys
- Mini Project
- Hands on experience on specific focused topic

Guidelines for Assessment (Any one or more of following but not limited to)

- Written Test
- Demonstrations/ Practical Test
- Presentations
- IPR/Publication
- Report

List of courses under Audit Course1

Course Code	Audit Course Title
202054 A	Road Safety
202054 B	Innovations in engineering field / Agriculture
202054 C	Value Education

The detail course contents of above mentioned audit courses are available in Mechanical Engineering 2015 course syllabus. Moreover students can opt for any other audit course from the list of Audit Course1 of any branch of engineering.

202054: Value Education

Teaching Scheme:	Credits	Examination Scheme:		
TH: --	Tut:01	TH	In-Sem:	--
			End-Sem:	--
Tutorial: 01 hr/ week	TW:--		PR:	--
			OR:	--
			TW:	25

Course Objectives:
- To enable the students to understand meaning of values and select their goals by self-investigation based on personal values.
- To enable the students to understand value of truth, commitments, honesty, sacrifice, care, unity, team work and relationship.
- To educate and make the young generation students aware of their social responsibilities.
- To increase awareness among students about environment and create attitude towards sustainable lifestyle.

Course Outcomes:
On completion of the course, learner will be able to–
- Understood human values, their significance and role in life.
- Promote self-reflection and critical inquiry that foster critical thinking of one's value and the values of others.
- Practice respect for human rights and democratic principles.
- Familiarized with various living and non-living organisms and their interaction with environment.
- Understood the basics regarding the leadership and to become a conscious professional.

Course Contents

UNIT 1: Introduction of Value Education   (2 Hrs)
Value Education: Definition, Need, Content, Process and relevance to present day. Concept of Human Values, self introspection.

UNIT 2: Salient values for life   (2 Hrs)
Truth, commitment, honesty and integrity, forgiveness and love, empathy and ability to sacrifice, care, unity, punctuality, Interpersonal and Intra personal relationship, Team work , Positive and creative thinking.

UNIT 3: Human Rights   (2 Hrs)

Universal Declaration of Human Rights, Right to Information Act -2005, National Integration, Peace and non-violence, Dr. A P J Kalam's ten points for enlightened Citizenship. The role of media in value building.

UNIT 4: Environment and Ecology   (2 Hrs)

Ecological balance, interdependence of all beings – living and non-living. Man and nature, Environment conservation and enrichment...

UNIT 5: Social values & Ethical values   (2 Hrs)

Social values - Social consciousness and responsibility, Consumer rights and responsibilities.

Ethical values - Professional ethics, Code of ethics of engineers, Influence of ethics on family life, Leadership qualities and Personality development.

Books:

Text:

1. Dr. N. Venkataiah, "Value Education", APH Publishing Corporation, 2007
2. M. Govindarajan, S. Natarajan, V. S. Senthil Kumar, "Professional Ethics & Human Values", PHI Learning Press, 2013.

References:

1. Chakravarthy S. K., "Values and ethics for Organizations: Theory and Practice", Oxford University Press, New Delhi, 1999.
2. Man Singh Das, Vijay Kumar Gupta, "Social values among young adults: A changing scenario", MD Publications Pvt. Ltd, 1995.
3. Ram Ahuja, "Social Problems in India", Rawat Publications, 2012.
4. Leah Levin, "HUMAN RIGHTS Questions and Answers", UNESCO Publishing, 2012.
5. P D Sharma, Ecology and Environment, Rastogi publications, 2005.
6. Kalam A P J, Arun Tiwari, "Wings of Fire", University Press Publications, 2003.
7. http://www.ncert.nic.in/recent/env_edu.html
8. http://www.unipune.ac.in/pdf_files/Final%20Book_03042012.pdf
9. https://engineering.purdue.edu/MSE/Academics/Undergrad/ethics.pdf

Savitribai Phule Pune University
T.E. Mechanical Engineering 2015 – Course
T. E. (Mechanical) (2015 Course) Semester – I

Code	Subject	Teaching Scheme Hrs / week			Examination Scheme					Total Marks	Credits	
		Lecture	Tut	Pract	In-Sem	ESE	TW	PR	OR		Th	TW / PR / OR
302041	Design of Machine Elements-I	4	-	2	30@	70@	50	-		150	4	1
302042	Heat Transfer*	4	-	2	30	70		50	-	150	4	1
302043	Theory of Machines-II$	3	1		30	70	25	-	25	150	3	1
302044	Turbo Machines	3	-	2	30	70	-	-	25	125	3	1
302045	Metrology and Quality Control$	3	-	2	30	70	-	-	25	125	3	1
302046	Skill Development	-	-	2	-	-	25	25	-	50	-	1
	Total	17	1	10	150	350	100	75	75	750	17	6
											23	

T. E. (Mechanical) (2015 Course) Semester – II

Code	Subject	Teaching Scheme Hrs / week			Examination Scheme					Total Marks	Credits	
		Lecture	Tut	Pract	In-Sem	ESE	TW	PR	OR		Th	TW / PR / OR
302047	Numerical Methods and Optimization*	4	-	2	30	70	-	50	-	150	4	1
302048	Design of Machine Elements-II	4	-	2	30@	70@	25	-	25	150	4	1
302049	Refrigeration and Air Conditioning	3	-	2	30	70	-	-	25	125	3	1
302050	Mechatronics%	3	1		30	70	-	-	25	125	3	1
302051	Manufacturing - Process-II$	3	-	-	30	70	-	-	-	100	3	-
302052	Machine Shop-II$	-	-	2	-	-	50	-	-	50	-	1
302053	Seminar$	-	-	2	-	-	25	-	25#	50	-	1
302054	Audit Course*	---	---	---	---	---	-	-	-	-	-	-
	Total	17	1	10	150	350	100	50	100	750	17	6
											23	

Though it is under Oral head Internal Panel to be appointed by Principal and HOD. Examination schedule will not be prepared at University level.

* Marked subjects are common with TE (Auto. Engg.) and TE Mech. Sandwich

$ Marked subjects are common with TE (Auto. Engg.) only

% Marked subjects are common with TE Mech. Sandwich only

@ Examination time for Insem examination 1 Hr 30 Min. and Endsem examination 3Hrs.

Savitribai Phule Pune University, Pune
Third Year of Mechanical, Mechanical Sandwich & Automobile
(2015 Course)

Course Code: 302054	**Course Name : Audit Course lll - Intellectual Property Right**

Teaching Scheme:	Credits	Examination Scheme: Audit (P/F) Written and MCQ	
PR:	**Th/Tut:--**	**TH In-Sem:**	--
		End-Sem:	--
Tut:	**TW:**	**PR:**	--
		OR:	--

Objective:

Intellectual property refers to the rights which are attached to the creation of the mind and which take the form of a property. Though intangible in nature, intellectual property has become the driving force of many companies today. Fortune 500+ companies undoubtedly are the best examples of what a company can achieve through the proper understanding and management of IPR.

Thus the study of intellectual property rights is inevitable for managers, considering the fact that India is fast emerging as an economy with considerable investment in cutting-edge research and development. India is also emerging as an economy where foreign companies propose to invest considerably, both technically and financially, provided proper protection is guaranteed to their intangible assets which form the cornerstone of their business.

Topics:

1. Introduction
   - Concepts of IPR
   - The history behind development of IPR
   - Necessity of IPR and steps to create awareness of IPR

2. IP Management
   - Concept of IP Management
   - Intellectual Property and Marketing
   - IP asset valuation

3. Patent Law
   - Introduction to Patents
   - Procedure for obtaining a Patent
   - Licensing and Assignment of Patents
        Software Licensing
        General public Licensing
        Compulsory Licensing
   - Infringement of Patents
   - Software patent US and Indian scenario

4. Copyrights
   - Concept of Copyright Right
   - Assignment of Copyrights
   - Registration procedure of Copyrights
   - Infringement (piracy) of Copyrights and Remedies
   - Copyrights over software and hardware

5. Designs
   - Concept of Industrial Designs
   - Registration of Designs
   - Piracy of registered designs and remedies

6. Trademark Law
   - Concept of trademarks
   - Importance of brands and the generation of "goodwill"
   - Trademark registration procedure
   - Infringement of trademarks and Remedies available
   - Assignment and Licensing of Trademarks

Savitribai Phule Pune University, Pune
SE(E&TC/Electronics Engineering) 2015 Course

(With effect from Academic Year 2016-17)

Semester I

Course Code	Course	Teaching Scheme Hours / Week			Semester Examination Scheme of Marks						Credit	
		Theory	Tutorials	Practicals	In-Sem (On line)	End-Sem (Theory)	TW	PR	OR	Total	TH/TUT	PR+OR
204181	Signals & Systems	3	1	-	50	50	25	-	-	125	4	-
204182	Electronic Devices & Circuits	4	-	2	50	50	-	50	-	150	4	1
204183	Electrical Circuits and Machines	3	-	2	50	50	25	-	-	125	3	1
204184	Data Structures and Algorithms	4	-	2	50	50	-	-	50	150	4	1
204185	Digital Electronics	4	-	2	50	50	-	50	-	150	4	1
204186	Electronic Measuring Instruments & Tools	1	-	2	-	-	50	-	-	50	1	1
204192	Audit Course 1	--	--	--	--	--	--	--	--	--		
	Total	19	1	10	250	250	100	100	50	750	20	05
	Total Credits										25	

Abbreviations:

Th : Theory
TW: Term Work   TUT : Tutorial
OR: Oral   PR : Practical

Note: Interested students of S.E. (Electronics/E&TC) can opt any one of the audit course from the audit courses prescribed by BoS (Electronics/Computer/IT/Electrical/Instrumentation)

Audit Course-I
204192: Road Safety Management

Road transport remains the least safe mode of transport, with road accidents representing the main cause of death of people. The boom in the vehicle population without adequate road infrastructure, poor attention to driver training and unsatisfactory regulation has been responsible for increase in the number of accidents. India's vehicle population is negligible as compared to the World statistics; but the comparable proportion for accidents is substantially large.

The need for stricter enforcement of law to ensure greater safety on roads and an environment-friendly road transport operation is of paramount importance. Safety and security are growing concerns for businesses, governments and the traveling public around the world, as also in India. It is, therefore, essential to take new initiatives in raising awareness, skill and knowledge of students as one of the ibid stake holders who are expected to follow the rules and policies of the government in order to facilitate safety of individual and safe mobility of others.

Course Objectives:

- Provide basic overview on road safety & traffic management issues in view of the alarming increase in vehicular population of the country.
- Insight into the transportation system management (TSM) techniques.
- Overview of the engineering & legislative measures for road safety.
- Discuss measures for improving road safety education levels among the public.

Course Outcomes:

On completion of the course, society will observe –

- Changes in awareness levels, knowledge and understanding
- A change in attitudes / behavior e.g. against drink-drive;
- Casualty Reduction;
- That remedial education for those who make mistakes and for low level offences where this is more effective than financial penalties and penalty points;
- Improving Road Safety Together

Course Contents

1. Existing Road Transport Scenario
2. Accident Causes & Remedies
3. Road Accident Investigation & Investigation Methods
4. Vehicle Technology – CMVR & Road Safety
5. Regulatory / Legislative Provisions for Improving Road Safety
6. Behavioral Training for Drivers for Improving Road Safety
7. Road Safety Education
8. Road Engineering Measures for Improving Road Safety

Guidelines for Conduction (Any one or more of following but not limited to)

- Guest Lectures

- Visits and reports

- Assist authorities like RTO for audits (e.g. Particular road safety audit as critical on-site assessment of the shortcomings in the various elements of the road)

- Mini Project

Guidelines for Assessment(Any one of following but not limited to)

- Written Test

- Practical Test

- Presentation

- Paper

- Report

Audit course-II 204193:Cyber Crime and law
Introduction to Cyber Crime and law: Cyber Crimes, Types of Cybercrime, Hacking, Attack vectors, Cyberspace and Criminal Behavior, Clarification of Terms, Traditional Problems Associated with Computer Crime, Introduction to Incident Response, Digital Forensics, Computer Language, Network Language, Realms of the Cyber world, A Brief History of the Internet, Recognizing and Defining Computer Crime, Contemporary Crimes,Computers as Targets, Contaminants and Destruction of Data, Indian IT ACT 2000
Introduction to Cyber Crime Investigation Firewalls and Packet Filters, password Cracking, Keyloggers and Spyware, Virus and Warms, Trojan and backdoors, Steganography, DOS and DDOS attack, SQL injection, Buffer Overflow, Attack on wireless Networks
Guidelines for Conduction (Any one or more of following but not limited to) • Guest Lectures • Visiting lectures
Guidelines for Assessment (Any one of following but not limited to) • Written Test • Practical Test • Presentation • Paper • Report

Faculty of Engineering

Savitribai Phule Pune University

Third Engineering-E&TC (2015 Course)

(With effect from Academic Year 2017-18)

Semester I

Course Code	Course	Teaching Scheme Hours / Week			Semester Examination Scheme of Marks						Credits	
		Theory	Tutorials	Practicals	In-Sem	End-Sem	TW	PR	OR	Total	TH/TW	PR+OR
304181	Digital Communication	4	--	--	30	70	--	--	--	100	4	--
304182	Digital Signal Processing	4	--	--	30	70	--	--	--	100	4	--
304183	Electromagnetics	3	1	--	30	70	--	--	--	100	3	1
304184	Microcontrollers	3	--	--	30	70	--	--	--	100	3	1
304185	Mechatronics	3	--	--	30	70	--	--	--	100	--	2
304191	Signal Processing and Communications Lab (DC/DSP)	--	--	4	--	--	50	50		100		
304192	Microcontrollers and Mechatronics Lab	--	--	4	--	--	50	50		100		
304193	Electronics System Design	2	--	2	--	--	-	--	50	50	2	1
	Audit Course 3	--	--	--	--	--	--	--	--	--	----	
	Total	19	1	10	150	350	100	100	50	750		
										Total Credits	25	

Abbreviations:

TH: Theory   OR: Oral
TW: Term Work   PR: Practical

Note: Interested students of T.E (Electronics/E&TC) can opt any one of the audit course from the audit courses prescribed by BoS (Electronics/Computer/IT/Electrical/Instrumentation)

Unit 1 : Introduction to Kanji Script,

Describing one's daily routine. To ask what someone does.

Expressions of Giving & Receiving.

Unit 2 : Adjectives (Types of adjectives)

Asking impression or an opinion about a thing / person / place that the listener

Has experienced, visited, or met

Describing things / person / places with the help of the adjectives.

Unit 3 : Expressions of Like & Dislikes. Expressing one's ability, hobby

Comparison between objects, persons & cities

Audit Course 3

Cyber and Information Security

Course objective :

1.Students will able to learn the issues of security in IT

2. Students will able to investigate various security threats in IT

Course Outcomes :

On completion of course students

1. will increase the awareness about cyber security

2. will increase the awareness about information and network security

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Basic Concepts of Technology and Law

Basics of Information Technology, Basics of Indian Legal System, Information Technology Act 2000 (Amended), Relevant Amendments in all other laws.E-ContractThe essence of digital contracts, Law of Contract, Construction of E-contracts, Issues of security, Employment contracts, Consultant Agreements and Digital signature

Intelligent Property Issues in Cyber space: Doman names and related issues, Copyright in digital media, Patents in cyber world. Rights of Neitzens and E- Governance:Privacy and freedom issues in cyber world, E-Governance, Cyber crimes and Cyber laws.

Information Security Fundamentals: Background, Importance, Statistics, National and International Scenario, Goals of security, Confidentiality, Privacy, Integrity, Non-repudiation, Availability.

Essentials of computer security - Sources of security threats – Intruders, Viruses, Worms and related threats - Threat identification - Threat analysis -Vulnerability identification and Assessment.

Security Investigation: Need for Security, Business Needs, Threats, Attacks, Legal, Ethical and Professional Issues Access Control, Intrusion Detection and Server Management, Firewalls: Overview of Identification and Authorization, Overview of IDS, Intrusion, Detection Systems and Intrusion Prevention Systems, User Management, Overview of Firewalls, Types of Firewalls, DMZ and firewall features

Security Policies and Management: Security Policy Design, Designing Security Procedures, Risk Management and Assessment Techniques, Security stan

dards, Security Models.Security Management Practices, Security Laws, Information Classificatio

n Process, Risk Management, Security Proceduresand Guidelines, Business Continuity and Disaster Recovery, Ethics and Best Practices, Security Assurance

Faculty of Engineering   Savitribai Phule Pune University

Third Engineering-E&TC (2015 Course)

(With effect from Academic Year 2017-18)

Semester II

Course Code	Course	Teaching Scheme Hours / Week			Semester Examination Scheme of Marks						Credit	
		Theory	Tutorials	Practicals	In-Sem	End-Sem	TW	PR	OR	Total	TH/TW	PR +OR
304186	Power Electronics	4	--	--	30	70	--	--	--	100	4	--
304187	Information Theory, Coding and Communication Networks	4	--	--	30	70	--	--	--	100	4	--
304188	Business Management	3	--	--	30	70	--	--	--	100	3	--
306189	Advanced Processors	4	--	--	30	70	--	--	--	100	4	1
304190	System Programming and Operating Systems	3	--	--	30	70		--	--	100	3	1
304194	Power and ITCT Lab	--	--	4	--	--	50	50	--	100	--	2
304195	Advanced Processors and System Progdraaming. Lab	--	--	4	--	--	50	50	--	100		
304196	Employability Skills and Mini Project	2	--	2	--	--	--	--	50	50	2	1
	Audit Course 4	--	--	--	--	--	--	--	--	--		
	Total	20	---	10	150	350	100	100	50	750		
	Total Credits										25	

Abbreviations:

TH: Theory   OR: Oral
TW: Term Work   PR: Practical

Note: Interested students of T.E (Electronics/E&TC) can opt any one of the audit course from the audit courses prescribed by BoS (Electronics/Computer/IT/Electrical/Instrumentation)

- One will develop interest to pursue professional Japanese Language course.

Course Content

Unit 1 : Stating existence or a presence of thing (s), person (s)

Relative positions, Counters

Unit 2 : Expressing one's Desire & wants Verb groups,

Asking, Instructing a person to do something

Unit 3 : Indicating an action or motion is in progress. Describing habitual action

Describing a certain continuing state which resulted from a certain action in

the past. Express permission & prohibition.

Audit Course 4

Embedded System Design using MSP430

Embedded applications like automation and control, consumer electronics, test and measurement equipment's, HVAC and building control, remote monitoring and other embedded applications require Low power CPU's with more GPIO's, in-build ADC and dedicated Embedded protocols. MCU workshop is based upon Low power 16-bit MSP430 series platforms. Participants will be exposed to complete application-building concept using 16-bit MSP430 series MCUs. The workshop will be designed to give hands-on experience so that every participant will get expertise in using MSP430 platform. From Standalone applications to Embedded Networking applications (Embedded Wi-Fi) will be covered with exposure to real world interfacing techniques.

Learning outcomes:

At the end of the workshop participant will be able to learn/understand

- Embedded C programming techniques for 16-bit platform
- Embedded protocols and its interfacing techniques
- Embedded Wireless networking concepts and its implementation with application oriented projects and case studies.

Prerequisite:

Must have exposure to building embedded applications for 8-bit platforms

Basic knowledge of C language programming

Digital Electronics fundamentals

Introduction to Embedded Curriculum: framework, concept map and role of faculty mentors.

Embedded Systems and role of TI platforms

Introduction to MSP430 series platforms: scope, application and tools in Embedded ecosystem

Programming MSP430 using CCS

MSP430's Internal Architecture and Programmer's model

Various Configuration registers of in-build modules and their programming (GPIO, PWM, ADC)

Clock tree structure and its role

Interfacing Analog sensors

Enabling Low power modes and understanding Interrupt based programming techniques

Various Serial Communication Interfaces : UART / I2C / SPI

UART programming and data logging applications

Programming SPI Interface, Programming I2C Interface

Embedded Wi-Fi and Internet of things

Real-time data gathering (humidity, temperature, pressure etc.) and remote monitoring for Wireless Sensor Network applications and related use cases.

Savitribai Phule Pune University
Second Year of Computer Engineering (2015 Course)
(With effect from Academic Year 2016-17)

Semester I

Course Code	Course Name	Teaching Scheme Hours / Week			Examination Scheme & Marks						Credit	
		Theory	Tutorial	Practical	In-Sem	End-Sem	TW	PR	OR	Total	TH + TUT	PR
210241	Discrete Mathematics	04	--	--	50	50	--	--	--	100	04	--
210242	Digital Electronics and Logic Design	04	--	--	50	50	--	--	--	100	04	--
210243	Data Structures and Algorithms	04	--	--	50	50	--	--	--	100	04	--
210244	Computer Organization and Architecture	04	--	--	50	50	--	--	--	100	04	--
210245	Object Oriented Programming	04	--	--	50	50	--	--	--	100	04	--
210246	Digital Electronics Lab	--	--	02	--	--	25	50	--	75	--	01
210247	Data Structures Lab	--	--	04	--	--	25	50	--	75	--	02
210248	Object Oriented Programming Lab	--	--	02	--	--	25	50	--	75	--	01
210249	Soft Skills	--	--	02	--	--	25	--	--	25	--	01
Total											20	05
210250	Audit Course 1	--	--	--	--	--	--	--	--	--	Grade	
Total		20	--	10	250	250	100	150	--	750	25	

Abbreviations:

TW: Term Work   TH: Theory
OR: Oral   TUT: Tutorial
PR: Practical   Sem: Semester

Savitribai Phule Pune University
Second Year of Computer Engineering (2015 Course)
210250: Audit Course 1
AC1-III: Environmental Studies

Environmental studies are the field that examines this relationship between people and the environment. An environmental study is an interdisciplinary subject examining the interplay between the social, legal, management, and scientific aspects of environmental issues.

Course Objectives:
- Understanding the importance of ecological balance for sustainable development.
- Understanding the impacts of developmental activities and mitigation measures.
- Understand and realize the multi-disciplinary nature of the environment, its components, and inter-relationship between man and environment
- Understand the relevance and importance of the natural resources in the sustenance of life on earth and living standard

Course Outcomes:
On completion of the course, student will be able to—
- Comprehend the importance of ecosystem and biodiversity
- To correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and prevention
- Identify different types of environmental pollution and control measures
- To correlate the exploitation and utilization of conventional and non-conventional resources

Course Contents:

1. **Natural Resources:** Introduction, Renewable and non-renewable, Forest, water, mineral, food, energy and land resources, Individual and conservation of resources, Equitable use of resources.

2. **Ecosystems:** Concept, Structure, Function, Energy flow, Ecological succession, Forest, grassland, desert and aquatic ecosystems - Introduction, characteristic features, structure and function.

3. **Biodiversity:** Genetic, Species and ecological diversity, Biogeographical classification of India, Value and hot spots, Biodiversity at global, national and local levels, India as mega-biodiversity nation, Threats to biodiversity, Endangered and endemic species of India, Conservation of Biodiversity, Endangered and endemic species, Conservation of biodiversity.

4. **Pollution:** Definition, Causes, effects and control measures of the pollution – Air, soil, Noise, Water, Marine and Thermal and Nuclear Pollution, Solid waste management, Role of Individual in Prevention of Pollution, Pollution case studies, Disaster management

References:

1. Bharucha, E., ―Textbook of Environmental Studies", Universities Press (2005), ISBN-10:8173715408

2. Mahua Basu, ―Environmental Studies", Cambridge University Press, ISBN-978-1-107-5317-3

Savitribai Phule Pune University
Second Year of Computer Engineering (2015 Course)
(With effect from Academic Year 2016-17)
Semester II

Course Code	Course Name	Teaching Scheme Hours / Week			Examination Scheme & Marks						Credits	
		Theory	Tutorial	Practical	In-Sem	End-Sem	TW	PR	OR	Total	TH+ TUT	PR
207003	**Engineering Mathematics III**	04	01	--	50	50	25	--	--	125	05	--
210251	**Computer Graphics**	04	--	--	50	50	--	--	--	100	04	--
210252	**Advanced Data Structures**	04	--	--	50	50	--	--	--	100	04	--
210253	**Microprocessor**	04	--	--	50	50	--	--	--	100	04	--
210254	**Principles of Programming Languages**	03	--	--	50	50	--	--	--	100	03	--
210255	**Computer Graphics Lab**	--	--	02	--	--	25	50	--	75	--	01
210256	**Advanced Data Structures Lab**	--	--	04	--	--	25	50	--	75	--	02
210257	**Microprocessor Lab**	--	--	04	--	--	25	50	--	75	--	02
	Total										20	05
210258	**Audit Course 2**		--	--	--	--	--	--	--	--	Grade	
	Total	19	01	10	250	250	100	150	--	750	25	

Abbreviations:

TW: Term Work   TH: Theory

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PR: Practical   Sem: Semester

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Savitribai Phule Pune University
Second Year of Computer Engineering (2015 Course)
210258: Audit Course 2
AC2-II: Intellectual Property Rights and Patents

Intellectual property is the area of law that deals with protecting the rights of those who create original works. It covers everything from original plays and novels to inventions and company identification marks. The purpose of intellectual property laws is to encourage new technologies, artistic expressions and inventions while promoting economic growth.

Innovation and originality have great potential value. Whatever line of activity you are engaged in, future success depends on them. The last few years have seen intellectual property rights become an issue of general interest: the smart phone ―patent wars", the introduction of Digital Rights management (DRM) and the rise of generic pharmaceuticals and open-source software are just some examples that have been in the public eye. Protecting your intellectual rights appropriately should be a top priority. Yet too many people embark on their chosen professions without even a basic awareness of intellectual property.

Course Objectives:

- To encourage research, scholarship, and a spirit of inquiry
- To encourage students at all levels to develop patentable technologies.
- To provide environment to the students of the Institute for creation, protection, and commercialization of intellectual property and to stimulate innovation.

Course Outcomes:

On completion of the course, learner will be able to–

- Understand the fundamental legal principles related to confidential information, copyright, patents, designs, trademarks and unfair competition
- Identify, apply and assess principles of law relating to each of these areas of intellectual property
- Apply the appropriate ownership rules to intellectual property you have been involved in creating

Course Contents:

- **Introduction to Intellectual Property Law** – The Evolutionary Past - The IPR Tool Kit- Para -Legal Tasks in Intellectual Property Law
- **Introduction to Trade mark** – Trade mark Registration Process – Post registration Procedures – Trade mark maintenance - Transfer of Rights – Inter partes Proceeding – Infringement - Dilution Ownership of Trade mark
- **Introduction to Copyrights** – – Principles of Copyright Principles -The subjects Matter of Copy right – The Rights Afforded by Copyright Law – Copy right Ownership, Transfer and duration – Right to prepare Derivative works
- **Introduction to Trade Secret** – Maintaining Trade Secret – Physical Security – Employee Limitation - Employee confidentiality agreement

References:

1. Debirag E. Bouchoux: ―Intellectual Property". Cengage learning ISBN-10:1111648573
2. Ferrera, Bird, Darrow, ―Cyber Law. Texts & Cases", South- ISBN:0-324-39972-3
3. Prabhuddha Ganguli: ―Intellectual Property Rights" TMH, ISBN-10:0070077177

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Course Code	Course	Teaching Scheme Hours / Week			Examination Scheme and Marks						Credit	
		Theory	Tutorial	Practical	In-Sem	End-Sem	TW	PR	OR	Total	TH/TUT	PR
					Savitribai Phule University of Pune **Third Year Computer Engineering (2015 Course)** **(with effect from 2017-18)**							
					Semester I							
310241	Theory of Computation	03	--	--	30	70	--	--	--	100	03	--
310242	Database Management Systems (DBMS)	03	--	--	30	70	--	--	--	100	03	--
310243	Software Engineering & Project Management	03	--	--	30	70	--	--	--	100	03	--
310244	Information Systems & Engineering Economics	03	--	--	30	70	--	--	--	100	03	--
310245	Computer Networks (CN)	04	--	--	30	70	--	--	--	100	04	--
310246	Skills Development Lab	--	02	04	--	--	50	--	50	100	02	02
310247	DBMS Lab	--	--	04	--	--	25	50	--	75	--	02
310248	CN Lab	--	--	02	--	--	25	50	--	75	--	01
									Total Credit		18	05
	Total	16	02	10	150	350	100	100	50	750	23	
310249	Audit Course 3										Grade	

310249-Audit Course 3 (AC3) Options:

AC3-I: Cyber Security   AC3-II: **Professional Ethics and Etiquettes**

AC3-III: Emotional Intelligence   AC3-IV: MOOC- Learn New Skills

AC3-V: Foreign Language (Japanese- Module 3)

Abbreviations:

TW: Term Work   TH: Theory   OR: Oral   TUT: Tutorial   PR: Practical   Sem: Semester

Savitribai Phule Pune University, Pune
Third Year of Computer Engineering (2015 Course)
310249: Audit Course 3
AC3 – II: Professional Ethics and Etiquettes

Professional ethics is the underlying concept behind the successful accomplishment of any act of a professional towards achieving the individual and societal goals. These goals should ultimately result in morally, legally, ethically and even culturally acceptable good things for all. Engineers being special group of professionals need to be more conscious of their acts since their duties, rights and responsibilities permeate into the society and the surroundings. To practice professional ethics, understanding of values and concepts are essential.

Course Objectives:

- To create awareness on professional ethics and Human Values.
- To provide basic familiarity about Engineers as responsible Experimenters, Research Ethics, Codes of Ethics, Industrial Standards.
- To inculcate knowledge and exposure on Safety and Risk.
- To expose students to right attitudinal and behavioral aspects

Course Outcome:

On completion of the course, learner will be able to–

- understand the basic perception of profession, professional ethics, various moral issues & uses of ethical theories
- Understand various social issues, industrial standards, code of ethics and role of professional ethics in engineering field.
- Follow Ethics as an engineering professional and adopt good standards & norms of engineering practice.
- apply ethical principles to resolve situations that arise in their professional lives

Course Contents:

1. **Human Values And Engineering Ethics:** Morals, values and Ethics, Integrity, Work ethic, Civic virtue , Valuing time, Cooperation, Commitment, Empathy, Self-confidence , stress management, Senses of Engineering Ethics, Kohlberg"s theory, Gilligan"s theory, Models of professional roles, Uses of Ethical Theories.
2. **Research Ethics and Codes of Ethics:** Industrial standardization, ethical code and its importance, ethical accountability, law in engineering, engineering as social experimentation.
3. **Safety, Responsibilities And Rights:** Safety and Risk, Assessment of Safety and Risk, Risk Benefit Analysis and Reducing Risk collegiality, Collective Bargaining , Confidentiality , Conflicts of Interest, Professional Rights, Employee Rights, Intellectual Property Rights (IPR), Discrimination, Utilitarianism
4. **Professional Etiquette:** Etiquette at Meetings, Public Relations Office(PRO)'s Etiquettes, Technology Etiquette Phone Etiquette, Email Etiquette, Social Media Etiquette, Video Conferencing Etiquette, Interview Etiquette, Dressing Etiquettes : for Interview, offices and social functions, Ethical Values: Importance of Work Ethics.

Books:

1. Caroline Whitbeck, "Ethics in Engineering Practice and Research", Cambridge Press, ISBN:978-1-107-66847-8
2. Prabhuddha Ganguli: ─Intellectual Property Rights‖ Tata Mc-Graw –Hill, New Delhi, ISLN-10:0070077177
3. Professional Ethics and Etiquette (Mastering Career Skills), Checkmark, ISBN-10: 0816071179
4. A Alavudeen, "Professional Ethics And Human Values" Firewall, ISBN13 : 8131803066

	Savitribai Phule University of Pune										
	Third Year Computer Engineering (2015 Course)										
	(with effect from 2017-18)										
	Semester II										
Course Code	**Course**	**Teaching Scheme Hours / Week**			**Examination Scheme and Marks**						**Credit**
		Theory	**Tutorial**	**Practical**	**In-Sem**	**End-Sem**	**TW**	**PR**	**OR**	**Total**	**TH/TUT**	**PR**
310250	Design & Analysis of Algorithms	04	--	--	30	70	--	--	--	100	04	
310251	Systems Programming & Operating System (SP & OS)	04	--	--	30	70	--	--	--	100	04	--
310252	Embedded Systems & Internet of Things (ES & IoT)	04	--	--	30	70	--	--	--	100	04	--
310253	Software Modeling and Design	03	--	--	30	70	--	--	--	100	03	--
310254	Web Technology	03	--	--	30	70	--	--	--	100	03	--
310255	Seminar & Technical Communication	--	01	--	--	--	50	--	--	50	01	--
310256	Web Technology Lab	--	--	02	--	--	25	50	--	75	--	01
310257	SP & OS Lab	--	--	04	--	--	25	50	--	75	--	02
310258	ES & IoT Lab	--	--	02	--	--	50	--	--	50	--	01
									Total Credit		19	04
	Total	18	01	08	150	350	150	100	--	750	23	
310259	Audit Course 4										**Grade**	

310259-Audit Course 4(AC4) Options:

AC4-I: Digital and Social Media Marketing   **AC4-II:**   Green Computing
AC4-III: Sustainable Energy Systems   **AC4-IV:**   Leadership and Personality Development
AC4-V: Foreign Language (Japanese- Module 4)

Abbreviations:

TW: Term Work   **TH:** Theory   **OR:** Oral   **TUT:** Tutorial   **PR:** Practical   **Sem:** Semester

Savitribai Phule Pune University, Pune
Third Year of Computer Engineering (2015 Course)
310259: Audit Course 4
AC4 – I: Digital & Social Media Marketing

The importance of social media's role in modern marketing efforts can no longer be ignored. It's an integral component in almost all successful marketing strategies. With this increasing emphasis on integrated social media strategies, there is an Irrefutable need for marketing professionals and organizations to have end- to- end social media expertise. Through case studies, interactive sessions, and class exercises, students will learn best practices and develop the skills to connect business objectives with social media strategy, platforms and tactics. Topics will include choosing appropriate platforms, creating effective and engaging social media content, content management, social listening and creating a social media policy

Course Objectives:
- Identify best practices for Social Media Marketing, including platform level best practices.
- Connect business objectives to appropriate Social Media tactics.
- Create strong content that engages their target audience with their marketing message.

Course Outcome:
On completion of the course, learner will be able to–
- Create editorial calendars to manage content distribution.
- Use Social Listening tools to create timely, relevant content.
- Create Social Media policies that combine business objectives with appropriate use of social media channels and content.

Course Contents:

1. Introductions and review class objectives, Discuss class goals and individual goals, Fill out questionnaire, Introduction to Blogging, Create a blog post for your project. Include headline, imagery, links and post.
2. Introduction to Facebook and channel advertising and campaigns, Introduction to Twitter and channel advertising and campaigns, Creative Campaign examples across social channels
3. Introduction to both Google+ and LinkedIn. Provide an overview on LinkedIn advertising, Create Google+ and LinkedIn outlines for your project and include: types of posts and an example post for each platform.
4. Introduction to both Instagram and Pinterest as well as channel advertising and campaigns, Create Instagram and Pinterest outlines for your project and include: types of posts and an example post for each platform, review a content calendar, Lay out your own content calendar.

References:
1. Vandana Ahuja, Digital Marketing, Oxford Press, ISBN: 9780199455447,
2. Wiley, Jeanniey Mullen, David Daniels, David Gilmour " Email Marketing: An Hour a Day", ISBN: 978-0-470-38673-6
3. David Scott, "The New Rules of Marketing and PR", Wiley India, ISBN: 978-1-119-07048-1

Savitribai Phule Pune University, Pune
Third Year of Computer Engineering (2017 Course)
310259: Audit Course 4
AC4 – II: Green Computing

Green computing is the study and practice of using computing resources efficiently. Green computing or green IT, refers to environmentally sustainable computing or IT. The goals of green computing are similar to green chemistry; reduce the use of hazardous materials, Maximize energy efficiency during the product's lifetime, and promote the recyclability or biodegradability of defunct products and factory waste.

Course Objectives:

- To acquire knowledge to adopt green computing practices to minimize negative impacts on the environment.
- To examine technology tools that can reduce paper waste and carbon footprint by user.
- To understand how to minimize equipment disposal requirements.
- To gain skill in energy saving practices in their use of hardware

Course Outcome:

On completion of the course, learner will be able to–

- Understand the concept of green IT and relate it to sustainable development.
- Apply the green computing practices to save energy.
- Discuss how the choice of hardware and software can facilitate a more sustainable operation,
- Use methods and tools to measure energy consumption

Course Contents:

1. **Fundamentals of Green IT:** Green IT Fundamentals: Business, IT, and the Environment – Green computing: carbon foot Print - Measuring, Details, reasons to bother, Plan for the Future, Cost Savings: Hardware, Power.

2. **Green Assets and Power Problems:** Green Assets: Buildings, Data Centers, Networks, and Devices, Green Information Systems : Design and Development Models, Monitoring Power Usage, Servers, Low-Cost Options, Reducing Power Use, Data De-Duplication, Low-Power Computers and peripheral devices

3. **Greening Information Systems:** Initial Improvement Calculations, Selecting Metrics, Tracking Progress, Change Business Processes, Customer Interaction, Paper Reduction, Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling

4. **Green Grid Framework:** Virtualization of IT systems – Role of electric utilities, Telecommuting, teleconferencing and teleporting – Materials recycling – Best ways for Green PC – Green Data center Case Studies – Applying Green IT Strategies and Applications to a Home Hospital, Packaging Industry and Telecom Sector

References:

1. Woody Leonhard, Katherrine Murray, ―Green Home Computing for Dummies", August2009, ISBN: 978-0-470-46745-9
2. Alvin Galea, Michael Schaefer, Mike Ebbers, ―Green Data Center: steps for the Journey", Shoff/IBM rebook, 2011. ISBN: 10: 1-933742-05-4; 13: 978-1-933742-05-2
3. John Lamb, ―The Greening of IT", Pearson Education, 2009, ISBN 10: 0137150830
4. Jason Harris, ―Green Computing and Green IT- Best Practices on regulations & industry",Lulu.com, 2008, ISBN: 1558604898
5. Bud E. Smith, ―Green Computing Tools and Techniques for Saving Energy, Money and Resources", CRC Press, 2014, 9781466503403