## Savitribai Phule Puue Uuiversity, Pune



Syllabus for TE Civil Engineering (2019 Pattern)
Implemented from Academic year 2021-22

Board of Studies in Civil Eugiueering
Faculty of Science and Technology

## Savitribai Phule Pune University, Pune TE (Civil Engineering) 2019 Pattern (With effect from Academic Year 2021-22)

				SEM	EST	ER:	V									
Course Code	Course Name	Teaching Scheme Hours/Week)		Examination Scheme and Marks						Credit						
		Theory	Praetical	Tutorial	IN-Sem	End-Sem	TW	PR	OR	Total	TH	WI	PR	OR	TUT	Total
301001	Hydrology and Water Resources Engineering	03	-		30	70				100	03			-		03
301002	Water Supply Engineering	03	-		30	70				100	03				-1	03
301003	Design of Steel Structures	03	-		30	70				100	03		, 404	-	-	03
301004	Engineering Economics and Financial Management	03	-		30	70	-			100	03		-	-		03
301005	Elective I	03	-	-	30	70			-	100	03			-		03
01006	Seminar	-	-	-01	_	-	50			50	_	_			θl	01
01007	Hydrology and Water Resources Engineering Lab		02		_		25			25		01	-			01
800106	Water Supply Engineering Lab		02		_			50		50			01	-	[	01
301009	Design of Steel Structures Lab		04		-	-		-	50	50				02		02
301010	Elective I Lab		02			4.0	25			25		0.1				01
301011	Audit Course I: Professional Ethics and Etiquettes/ Sustainable Energy Systems			01		GR	-			GR	_	_				
	Total	15	10	02	150	350	100	50	50	700	15	02	01	02	01	21

## Elective 1: 301005

SN	Course Code	Course Name
01	301005 a	Advanced Fluid Mechanics and Hydraulic Machines
02	301005 Б	Research Methodology and IPR
03	301005 c	Construction Management
04	301 <b>00</b> 5 d	Advanced Concrete Technology
0.5	301005 c	Matrix Methods of Structural Analysis
06	301005 f	Advanced Mechanics of Structures

## SAVITRIBAL PHULE PUNE UNIVERSITY

## Board of Studies in Civil Engineering

## Structure for B.E. Civil 2015 Course (w. e. f. June 2018)

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ubject ende	Subject	Teaching Scheme Hrs/Week			In-Semester Assessment	TW	Praet /Or	End- Semester	Total	Credit	
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## Savitribai Phule Pune University, Pune TE Civil (2019 Pattern) w. c. f. June 2021

301011 a: Audit Course I: Professional Ethics and Etiquettes

Teaching scheme

Credit

Examination scheme

Tutorial: 01 Hours/week

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Grade

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

01 To create awareness on professional ethics and human values.

02 To provide basic familiarity about Engineers as responsible experimenters, research ethics, codes of ethics, industrial standards.

03 To inculeate knowledge and exposure on safety and risk.

04 To expose students to right attitudinal and behavioral aspects.

## Course outcomes

On successful completion of this course, the learner will be able to:

01 Understand the basic perception of profession, professional ethics, various moral issues and uses of ethical theories

02 Understand various social issues, industrial standards, code o ethics and role of professional ethics in engineering field.

63 Follow ethics as an engineering professional and adopt good standards and norms of engineering practice.

04 Apply ethical principles to resolve situations that arise in their professional lives

## Course Contents

## Unit I: 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.

## Unit II: Research Ethics and Codes of Ethics

Industrial standardization, ethical code and its importance, ethical accountability, law in engineering and engineering as social experimentation.

## linit III: 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 and utilitarianism.

## Unit IV: Professional Etiquette

Etiquette at meetings, public relations office (PRO)s etiquettes, technology etiquette phone etiquette, email etiquette, social media etiquette, video conferencing etiquette, interview

## 401000 Elective-III: (4) Air Pollution and Control

Teaching Scheme:

Lectures: 3 Hrs/week;

Practical: 2 Hrs/week

Examination Seheme:

Paper In-sem. 30 Marks (1 hr),

Paper End-sem : 70 Marks (2.5 hrs)

TW: 50 Marks

(6 hrs)

Unit J

Meteorological aspects: Zones of atmosphere, Scales of meteorology, Meteorological parameters, Temperature lapse rate, Plume behaviour. Gaussion diffusion model for finding ground level concentration, Plume rise, Types & quality of fuels, Formulae for effective stack height and determination of minimum stack height as per CPCB norms.

Unit II (6 hrs)

Ambient Air sampling and analysis: Air pollution survey, basis and statistical considerations of sampling sites, devices and methods used for sampling of gases and particulates. Stack emission monitoring for particulate and gaseous matter, isokinetic sampling. Analysis of air samples chemical and instrumental methods. Emission inventory and source apportionment studies. Ambient air quality monitoring as per the procedure laid down by CPCB. National Ambient Air Quality Standards (NAAQS) 2009.

Unit III (6 hrs)

Indoor air pollution: Causes of air pollution, sources and effects of indoor air pollutants, factors affecting exposure to indoor air pollution, sick building syndrome. Investigation of indoor air quality problems, changes in indoor air quality, control of indoor air pollutants and air cleaning systems. Use of various plants to control indoor air pollution. Radon and its decay products in indoor air.

Odonr pollution: Theory, sources, measurement and methods of control of odour pollution.

Unit IV (6 hrs)

Control of air pollution: By spacess modification, change of raw materials, fuels, process equipment and process operation. Control of particulate matters. Working principle and design of control equipment as Settling chamber, Cyclone, Fabric filter and Electro Static Precipitator. Control of gaseous pollutants. Combustion chemistry & control of air pollution from automobiles.

Unit V (6 hrs)

Land use planning: As a method of control. Economics of air pollution control: Cost/benefit ratio and optimization. Legislation and regulation: Air (Prevention and Control) Pollution Act, 1981. The Environment (Protection) Act 1986. Emission standards for stationary and mobile sources.

(6 hrs)

Environmental impact assessment and management: Methodology for preparing environmental impact assessment (Identifying the sources of air pollution, calculating the incremental values, prediction of impacts and mitigation measures). Role of regulatory agencies and control boards in obtaining environmental clearance for project. Public hearing. Invironmental impacts of thermal power plants, sogar and cement industry. Environmental management plan. The environmental rules 1999 (sitting of inclustries).

## Term Work:

Term work shall consist of

- A. One assignment on each unit.
- B. Detailed industrial visit report on Sugar/Coment/Steel//Thermal/Rubber/Dairy industry with reference to air pollution Control device(s).

### Reference Houks:

- Air Pollation H. V. N. Ran and M. N. Rao, TMH, Pub.
- Air gollutiun KVSG Murali krishna.
  - Air Pollution Perkins.
  - 4. Environmental Engineering Davis, McGraw Hill-Pub.
- Environmental Engineering Peavy H.S and Rowe D.R. McGraw Hill- Pub.
- 6. Air Pollucion Stern.
- 7. Air Pollution Control Martin Crawford.
- 8. Air Pollution Control: its origin and control, K. Wark, C.F. Warner & W.T.Davis .
- 9. Fundamentals of Air Pollution-Richard W. and Donald L. Academic Press.

### LS. Codes:

- 1. 1.S. 5182 (all parts), and
- 2, 1,8, 7,5442 (2004)

## Second Year of Computer Engineering (2010 Course): (With offset from Academic Year 2020-21)

## Semister-III

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210242	Evodamentals of Oxfa Structures	03			30	70	E			300	00			03	
210249	Object Orlected Programming	63		*	30	70		E	. *	300	00		2	DOX.	
210244	Computer Graphics	00	747		30	70	-		-	100	03			03	
210245	Digital Electrosics and Logic Design	00	(+1	+	30	70	3		Ţ.	300	09.		-	00.	
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110250	Business Communication Swith Laft		02	37			25			25	35	61		01	
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## Semester-IV

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250753	Data Structures and Algorithms	09		7.00	.10	70		+		100	03	2	H	09
210254	Software Engineering	03		-	30	70	100			300	-03		7.	03
	Microprocessor	03	12	100	10	70	(8)	9.0		100	83		-	03
710256	Principles of Programming Languages	US	Tari		30	70	## T			100	00	*		63
210357	Data Structures and Augurithms Laft	S.	04	-			25	50	İ	75	14.	02		03
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## Sayttellar Physic Pune University Second Year of Engineering (2019 Course) 210251: Audit Course J.



he addition to credity, it is recommended that these stands for sould course in preferably in each smerchist from second year. Student will be awarded the inadeby's degree if he/she name 100 cresits and clears off the well tourses specified in the syllaless. The student will be awarded grade as AF are successful completion of walls argans.

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Ust of options offered is provided. Each student has to choose one sudit course from the list persemester. Evaluation of audit course will be done at institute lawer inself. Method of conduction and realized of assessment for audit courses are suggested.

## Othertac

The abudom registered for audit yourse shall be awarded the grade AP and shall be included such AP grade in the Someoter grade report for that courts, provided student has the minimum attendance as prescribed by the Soribibal Phale Pure University and satisfactory in-semester performance and conuned a possing grade in that evall course. No grade points are associated with this 'AP' grady and performance in these courses is not accounted in the celculation of the performance indices SGPA and CGPA, Evaluation of audit spurse will be done at institute level

Galide Energ for Construction and Assessment (Any pagent many of Tallowing had not hathred tail-

- Lecturery Guest Lectures.
- Visits Social/Visht) and reports
- Demonstrations.
- Service.
- Mini Project.
- Hands on experience on specific focused topic:

Course Guidelines for Assurement Davy sine or more of following but not limited but:

- Writtee Test
- Demonstrations/ Practical Test.
- Presentations:
- IPS/Publication
- Report

	Audit Course 3 Options
Audit Course Cade	Audit Course Title
ACD4	Green Construction & Design
ACI-II	Social Awareness and Governance Program
ACI-II	Environmental Studies
ACS IV.	Securi Ottos
ACE-V	Foreign Language (one of Japanese/Spanish/French/German). Course contents for Japanese (Module 1) are provided. For other languages institute may design suitably

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## Second Year of Engineering (2019 Course) 210251:Audit Course 4



In addition to credits, it is recommended that there should be audit yourse in preferably in each sensester from second year. Shudent will be awarded the batheler's digree if he/she earns 150 tredits and clears all the audit courses specified in the syllabus. The student will be awarded grade as AP on successful considerion of each course.

The student may upt for one of the audit courses per semester, starting in second year first semester. Though out mandatory, such a selection of the audit courses helps the learner to explore the subject of interest in greater detail resulting in achieving the very objective of audit course's enductors.

List of options offered is proceed. Each student has to choose one such course from the list persemester. Evaluation of such course will be down at institute level itself. Method of conduction and method of assessment for audit sources are suggested.

### Crimming

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Guidelines for Conduction and Assessment (Any one or more of Indimwing But not remited tox-

- Lectures/ Guest Lectures
- Visits diocisi/Held) and reports.
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- Surveys.
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- Mands on experience or specific focused topic.

Aught Course Title

Course Guidelines for Assessment Davy one or more of following but red limited two

- Written Ted
- Demonstrations/Practical Feat
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- IPR/Publication
- Required.

Audit Course

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ACA-81	The Science of Happiness
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ACAV	Foreign (,anguage (one of Liquenese/Spanish/French/Gennum) Course contents for Japanese (Module 2) are provided. For other languages institute may design suitably.



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## Bestlettal Plate Page University Third Year of Computer Engineering (2019 Course) (With effect from Academie Vear 2521-22)

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1193143	Systems Programming and Operating System	81			50	70.		+	-	100	288		1	13
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## Election I

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- Idones Congretor language
- Distributed Systems
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## Audit Course 5

- Cylor Septetty
- Professional Ethics and Eth
- SIDOC-Laura New Skills
- Engineering Economics
  - Foreign Language

Laboratory Pression I

Assignments Step Systems Programming and Operating System and Elective I

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## Savitribal Phule From University Third Year of Computer Engineering (2015 Course) (With office from Academic Year 2823-22)

## Semester VI

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## Elective II

- Information Semantic
- Augmented and Virtual Ecolory
- Clear Company
- Software Modeling and Architectures

## Andit Course 6

- Digital and Social Media Marketing.
- Sustainable Energy Systems
- Leadership and Personality Development
- Ferrigo Language
- MOOC-Learn New Skills

Laboratory Practice III:

Assignments from Artificial Intelligence and Elective II.

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## Abbreviations:

TW: Term Work TH: Theory OR: Onl PR: Peacoust

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## Savitribai PhulePune University Final Year E&TC Engineering (2015 Course) (With effect from Academic Year 2019-19)

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## Cluster, III.

- 1. Machine Learning.
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- 5. Audin Video Engineering

## Elective-FY

- 1. Robertica
- 2. Biomedical Electronics
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- 6. Benevable finergy Systems
- 5. Open Elective\*

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- 2. Environmental loines and
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\*Any one course from the list of Elective IV of computer/IT/Electrical/Internamentation or treature can offer elective Di based on any industry need with prior agreered from Bodiff Increasion & Telecommunication). Reposition of course or topics should be avoided.

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## List of Courses to be opted (Aux one) under Mandatury Audit Course 2

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- German I.
- Science, Technology and Society
- Installation to Supercer Empropr and College

## GUIDELINES FOR CONDUCTION OF AUBIT COURSE

he addition to credite courses, it is recedency that there should be each course (non-credit course) from second year of Engineering. The student will be averaged goals so AP on securated: completion of such around year of Engineering over our for two of the most course (One in each security). Nech most research can help the student to get averages, of different source which make impact on human lives and enhance their skill sets to improve their employability. List of saudt common officerd in the accorder is provided in the continuous finalist can cheese one of the most course them list of sources mentioned. Evaluation of eacht course will be done in institute level.

The student registered for audit centre shall be awarded the grade AP and shall be included such grade in the Seventer grade report for that ucurs, provided student has the receivement attendance as prescribed by the Sevitebus Plate Pane University and teriolisticity incommunity performance and sectored a puring grade to that malit asserts. No grade priors are associated with this 'AP' grade and performance in these courties in not accounted in the nabitalistics of the performance indices SCPA and CCPA. Evaluation of sould course will be done at institute level itself.

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## Solerting an Audit Course:

## Using NPTEL Platforms

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- Stadent can select any one of the courses more continued above and has to region the
  the corresponding colline neuron modulity on the NPTEL plurform as an Audit
  course.
- Once the course is completed the enabled can appear for the exemination as per the guidelines on the NPTEL portal.
- After charing the examination accountably, student will be awarded with cartificate.

## Ammunit of na Audit Coarse:

- The assessment of the assesse will be time at the institute level. The matrixe has
  to maintain the encord of the various audit courses open by the midents. The
  audit course opted by the studyen could be setted/scaplinary.
- Charleg the source students will be selectiving the online assignments. A copy of same students can submit as a part of term work for the corresponding Audio course.
- On the satisfactory submission of assignments, the instinue uso much as "Fresent" and the studies will be awarded the grade AP on the markshoot.



## List of Courses to be opted (Any one) under Mandatory Audit Caurse 4

- Enhancing Soft Skills and Personality
- Empreye & Mod.
- · Entitional hindlighnia
- Gentian II.
- · Hotel Poharton
- Speaking Effectively

## GUIDELINES FOR CONDUCTION OF AUDIT COURSE

In addition to credite courses, it is maintainly that there should be audit course (non-credit amove) from according your of Enganceing. The student will be arrested grade as AF on occurseful completion of make source. The student may opt for two of the make courses (Our in each structure). Such malit sources can belp the student to get awareness of different errors which make impact on human lives and enhance their skill auto to improve their employability. List of malit courses offered in the remedier is provided in the continuous. Student can choose one of the anality course their list of courses reminsed. Evaluation of scall; course will be done as invisitely level.

The makes regionered for audit assens shall be amarked the grade AP and shall be included each grade in the Somewise grade report for that assens, provided student has the minimum attendance to preveribed by the Savitebul Plade Power University and astaliantery incrementer preformance and recursed a passing grade in that and a course. No grade points are associated with this 'AP' grade and partiersmore in these courses in not accounted in the trabulation of the performance indices SGPA and CUPA, Evaluation of node course will be done at posture level tools.

## Selecting an Audit Course:

## Using NPTEL Photorus:

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 Student can select any one of the courses municipal above and has to register for the corresponding online owerse available on the NPTEL platform as an Assist source.

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the guidelines on the NPTEL portal.

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## parenteesest of an Audit Course:

- The assessment of the source will be done in the nonline level. The nonline has
  to resistant the record of the various such consent uptof by the statems. The
  audit source option by the statement could be intentionaplicaty.
- During the course analysis will be submitting the colors assignment. A copy of same students can subject as a get of tone work for the corresponding Audit senance.
- On the satisfactory substitution of assignments, the outlines can mark as "Present" and the station, will be awarded the greate AP on the marketone.



## Savitribus Phule Pane University Third Year of E. &. Te Engineering (2019 Course) 304191 (A): Standatury Audit Course - 5 Leaching Scheme: Credit Examination Scheme:

## List of Courses to be upted (Any one) under Mandatury Audit Course 5

- Developing that delit and Parameter at
- Enterpressuring and P Street;
- Universities and the decisions
- Environmental A Revision Communical
- Environment and Development
- Clicholization and Colore

## GUIDELPNES FOR COSDUCTION OF AURIT COURSE.

for addition to could, contrary, it is examinary that these disculd be useful points (non-covoling contrary) from smooth year of Engineering. The station will be available grade to AP on recovorful complication of sould contrary. The planted may up for two of the molt contrary (One in each terminary). Such sould contrary can bely the molest to get properties of ADesert leases related moles impact on house from and melanic their skill sets to improve their confequiability. List of well contrary effects in the quantum is provided in the contraction. Nuclear can observe one of the mole property from the of contrary respectively. Exploition of anity course will be shown at institute leads.

The molecul explored for partic course shall be awarded the grade AP and shall be somethed participated in the Surapeter grade report for that amount, provided market has the numbers attendance or prescribed by the Soverthai Phale Pane University and satisfactory insummer performance and account a pushing grade in that make counter. No grade points are associated with this 'AP' grade and performance in those counters in our apparent in the emissions of the performance indices \$430,000 to \$250,000 to \$25

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## Selecting an Audit Course:

## Using NPTEL Platform:

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- Student con select any one of the pourses receivered above and has no register for the corresponding online crosse evaluate on the NPTEL platform as an Audit tower.
- Once the course is completed the student can appear for the experiention as pur the guidelines on the NPTEL portal.
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## Astronout of an Audit Course:

- The assessment of the sonese will be done at the institute level. The institute has
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  most course agend by the students could be intendisciplinary.
- During the course students will be submitting the realize assignments. A supp of same students can submit on a part of term work for the overesponding Audit course.
- On the neinfactory submission of assignments, the institute can mark as "Present" and the student will be availed the grade AP on the markshoot.



# Savitribai Phale Pune University Third Year of E. & 3c Engineering (2019 Course) - 384191 (B): Mandatary Audit Course - 6 Teaching Scheme: Credit Examination Scheme:

## List of Courses to be opted (Any one) under Mundatury Audit Course 6

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- Eiglich begonge für unergetäter mann;
- Energy Resource, Exercises and Environment
- Principles of Thermi Xeenano Management
- e Habipaa' M
- Non-Conventional Energy Resource

# GUIDELINES FOR CONDUCTION OF AUDIT COURSE.

for addition to profits accuracy, it is mandatory that there should be used centre (non-create creates) from second year of Engineering. The student well be presented grade as AP on reasonable composition of made course. The madern may ups for two of the audit courses (One in male commons). Such sould present one help the student to get assertates of different interes vehicle make impact too learner. Even and enthance their skill sets to improve their maphopulative. List of each courses officerd to the asserter to provided in the number to provided in the number. Neglect too absence one of the model course officerd to the asserter management. Evaluation of made course will be direct at irrational level.

The major registered for such atomic shall be assented the grade AP and shall be installed such grade in the Someone grade report for that source, provided studies has the minimum atomic as prescribed by the Source (State Source University and satisfactory installed with the AP grade and performance for the Source Source Source on the Source Of Source Source of the Source of Source O

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#### Using NPTEL Platform:

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- On the setabetrey relativistic of antipotents, the institute out track as "Present" and the statute will be avaided the grade AP on the contribute.



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	TABLE -1 First Engineering _Structure for Semester-I													
Course Code	Course Name		achi chem rs/W	e	E	Examination Scheme and Marks Credits								
		Theory	Practical	Tutorial	ISE	ESE	TW	PR	OR	Total	ТН	PR	TUT	Total
107001	Engineering Mathematics-I	03		01	30	70	25			125	03		01	04
107002/ 107009	Engineering Physics / Engineering Chemistry	04	02		30	70		25	-	125	04	01		05
102003	Systems in Mechanical Engineering	03	02		30	70		25		125	03	01		04
103004 / 104010	Basic Electrical Engineering / Basic Electronics Engineering	03	02		30	70		25		125	03	01		04
110005/ 101011	Problem Solving / Engineering Mechanics	03	02		30	70		25		125	03	01		04
111006	Workshop <sup>@</sup>		02					25		25		01		01
	Total	16	10	01	150	350	25	125	-	650	16	05	01	22
101007	Audit Course 1&	02					Envir	onme	ntal S	tudies-	-I			

**Induction Program:** 2 weeks at the beginning of semester-I and 1 week at the beginning of semester-II

Course Code	Course Name	S	Teaching Scheme Hours/Week)  Examination Scheme Marks			Examination Scheme and Credits								
		Theory	Practical	Tutorial	ISE	ESE	TW	PR	OR	Total	ТН	PR	TUT	Total
107008	Engineering Mathematics-II	04	1	01	30	70	25			125	04		01	05
107002/ 107009	Engineering Physics/ Engineering Chemistry	04	02	-	30	70		25		125	04	01		05
103004 / 104010	Basic Electrical Engineering / Basic Electronics Engineering	03	02		30	70		25		125	03	01		04
110005/ 101011	Programming and Problem Solving / Engineering Mechanics	03	02		30	70		25		125	03	01		04
102012	Engineering Graphics <sup>Ω</sup>	01	02	01		50	2	5	1	75	01	0	1	02
110013	Project Based Learning <sup>§</sup>		04	- 1	1	1	25	50	1	75	1	02	1	02
	Total	15	12	02	120	330	75	125	-	650	15	05	02	22
101014	Audit Course 2 <sup>&amp;</sup>	02				I	Enviro	onmer	ntal St	udies-	II			
107015	Audit Course 2			P	hysic	al Edu	ıcatio	n-Exe	rcise	and Fi	eld A	ctiviti	es	

#### **Evaluation and Continuous Assessment:**

It is recommended that the all activities are to be record and regularly, regular assessment of work to be done and proper documents are to be maintained at college end by both students as well as mentor (you may call it PBL work book).

Continuous Assessment Sheet (CAS) is to be maintained by all mentors/department and institutes. Recommended parameters for assessment, evaluation and weightage:

- Idea Inception (5%)
- Outcomes of PBL/ Problem Solving Skills/ Solution provided/ Final product (50%) (Individual assessment and team assessment)
- Documentation (Gathering requirements, design & modeling, implementation/execution, use of technology and final report, other documents) (25%)
- Demonstration (Presentation, User Interface, Usability etc) (10%)
- Contest Participation/ publication (5%)
- Awareness /Consideration of -Environment/ Social /Ethics/ Safety measures/Legal aspects (5%)

PBL workbook will serve the purpose and facilitate the job of students, mentorand project coordinator. This workbook will reflect accountability, punctuality, technical writing ability and work flow of the work undertaken.

## **References:**

- Project-Based Learning, Edutopia, March 14, 2016.
- What is PBL? Buck Institute for Education.
- www.schoology.com
- www.wikipedia.org
- www.howstuffworks.com

## 101014: Environmental Studies-II

## TH: 02 Hr/week Mandatory Non-Credit Course

## **Course Objectives:**

- 1. To provide a comprehensive overview of environmental pollution and the science and technology associated with the monitoring and control.
- 2. To understand the evolution of environmental policies and laws.
- 3. To explain the concepts behind the interrelations between environment and the development.
- 4. To examine a range of environmental issues in the field, and relate these to scientific theory.

Course Outcomes: On completion of the course, learner will be able to—

**CO1:** Have an understanding of environmental pollution and the science behind those problems and potential solutions.

**CO2:** Have knowledge of various acts and laws and will be able to identify the industries that are violating these rules.

**CO3:** Assess the impact of ever increasing human population on the biosphere: social, economic issues and role of humans in conservation of natural resources.

**CO4:** Learn skills required to research and analyze environmental issues scientifically and learn how to use those skills in applied situations such as careers that may involve environmental problems and/or issues.

## **Course Contents**

## Unit V Environmental Pollution (08 Hrs)

Environmental pollution: types, causes, effects and controls; Air, water, soil, chemical and noise pollution

Nuclear hazards and human health risks

Solid waste management: Control measures of urban and industrial waste

Pollution case studies.

## Unit VI Environmental Pollution (07 Hrs)

Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities& agriculture.Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife protection Act; Forest Conservation Act; International agreements; Montreal and Kyoto Protocols and conservation on Biological Diversity (CBD). The Chemical Weapons Convention (CWC). Nature reserves, tribal population and rights, and human, wildlife conflicts in Indian context

## Unit VII Human Communities and the Environment (06 Hrs)

Human population and growth; Impacts on environment, human health and welfares.

Carbon foot-print. Resettlement and rehabilitation of project affected persons; case studies. Disaster management: floods earthquakes, cyclones and landslides. Environmental movements: Chipko, Silent valley, Bishnios of Rajasthan. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.

Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

## Unit VIII Field work (05 Hrs)

- Visit to an area to document environmental assets; river/forest/flora/fauna, etc.
- Visit to a local polluted site Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river Delhi Ridge, etc

## **Suggested Readings:**

- 1. Carson, R. 2002. Silent spring. Houghton Mifflin Harcourt.
- 2. Gadgil, M., & Guha, R.1993. This Fissured Land: An Ecological History of India. Univ. of California Press.
- 3. Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.
- 4. Gleick, P.H. 1993. Water in Crisis. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- 5. Groom, Martha J. Gary K. Meffe, and Carl Ronald carroll. Principals of Conservation Biology, Sunderland: Sinauer Associates, 2006
- 6. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. Science, 339:36-37.
- 7. McCully, P.1996. Rivers no more: the environmental effects of dams (pp.29-64). Zed Books.
- 8. McNeil, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.

4.	Demonstration of Drilling machine
	Demonstration on construction of Radial drilling machine, Tool holding devices,
	Concept of speed, feed and depth of cut.
5.	Demonstration on Milling machine
	Demonstration on construction, table movements, indexing and tooling of milling
	machine.
6.	Demonstration of Shaper/Grinding machine (Any one)
	Shaper: Crank and slotted link mechanism, Work feed mechanism
	Grinding: Surface grinder/Cylindrical grinding machine, Mounting of grinding wheel
7.	Term work includes one job of Carpentry
	Introduction to wood working, kinds of woods, hand tools & machines, Types of joints,
	wood turning. Pattern making, types of patterns and its allowances.
8.	Term work to include one job involving fitting to size, male-female fitting with
	drilling and tapping operation on Mild Steel plate;
	Introduction to marking, cutting and sawing, sizing of metal, shearing, Concept of fits
	and interchangeability, selection of datum and measurements.
9.	Term work to include one utility job preferably using sheet metal (e.g. Tray, Funnel
	etc.) with riveting/welding/brazing/soldering (at least one temporary and one Permanent
	joint either using resistance welding/Arc welding);
	Introduction to sheet metal operations: punching, blanking, bending, drawing.
10.	Prepare a Layout of Workshop
	To prepare a work shop layout.
11.	Collection of information about safety norms in any one of the following type of
	industry:Metalworking/Chemical/Cement/Pharmaceuticals/Defense/Atomic
	energy/Aerospace /Marine/Construction/Railway etc.
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#### Reference/Text Books

- 1. John, K. C., (2010), "Mechanical Workshop Practice, Prentice Hall Publication, New Delhi
- 2. Hazra and Chaudhary, Workshop Technology-I & II, Media promoters & Publisher Pvt. Ltd.

# **101007: Environmental Studies-I** (Mandatory Non-Credit Course)

# TH:02 Hrs./week Course Objectives:

- 1. To explain the concepts and strategies related to sustainable development and various components of environment.
- 2. To examine biotic and abiotic factors within an ecosystem, to identify food chains, webs, as well as energy flow and relationships.
- 3. To identify and analyze various conservation methods and their effectiveness in relation to renewable and nonrenewable natural resources.
- 4. To gain an understanding of the value of biodiversity and current efforts to conserve biodiversity on national and local scale.

Course Outcomes: On completion of the course, learner will be able to-

**CO1**:Demonstrate an integrative approach to environmental issues with a focus on sustainability.

CO2: Explain and identify the role of the organism in energy transfers in different ecosystems.

**CO3**: Distinguish between and provide examples of renewable and nonrenewable resources & analyze personal consumption of resources.

**CO4:** Identify key threats to biodiversity and develop appropriate policy options for conserving biodiversity in different settings.

#### **Course Contents**

## Unit I Introduction to environmental studies (02 Hrs)

Multidisciplinary nature of environmental studies; components of environment – atmosphere, hydrosphere, lithosphere and biosphere. Scope and importance; Concept of sustainability and sustainable development.

Unit II Ecosystems (06 Hrs)

What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession. Case studies of the following ecosystems:

- a) Forest ecosystem
- b) Grassland ecosystem
- c) Desert ecosystem
- d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

## Unit III Natural Resources: Renewable and Non-renewable Resources (08 Hrs)

Land Resources and land use change; Land degradation, soil erosion and desertification.

Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.

Water: Use and over-exploitation of surface and ground water, floods droughts, conflicts over water (international & inter-state).

Heating of earth and circulation of air; air mass formation and precipitation.

Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

## Unit IV Biodiversity and Conservation (08 Hrs)

Levels of biological diversity: genetic, species and ecosystem diversity; Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots. India as a mega-biodiversity nation; Endangered and endemic species of India. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity; In-situ and Exsitu conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

## **Suggested Readings:**

- 1. Carson, R. 2002. Silent spring. Houghton Mifflin Harcourt.
- 2. Gadgil, M., & Guha, R.1993. This Fissured Land: An Ecological History of India. Univ. of California Press.
- 3. Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.
- 4. Gleick, P.H. 1993. Water in Crisis. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- 5. Groom, Martha J. Gary K. Meffe, and Carl Ronald carroll. Principals of Conservation Biology.
  - Sunderland: Sinauer Associates, 2006.
- 6. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. Science, 339:36-37.
- 7. McCully, P.1996. Rivers no more: the environmental effects of dams (pp.29-64). Zed Books.
- 8. McNeil, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.

10700	08 – Engineering Mathematics	– II
<b>Teaching Scheme:</b>	Credits	<b>Examination Scheme:</b>
TH: 4 Hrs./Week	05	In-Semester : 30 Marks
TUT: 1 Hr./Week		End-Semester: 70 Marks
		TW : 25 Marks
D ''4		

#### **Prerequisites:**

Integration, Differential Equation, Three-dimensional coordinate systems



## \* EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE \*

## GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

5. No. 25/1/S, Salewall, Fore - 811 045

[Approved by AJCTE and Gost, of Maharastista, Affiliated to Southfiel Phylie Pune University)
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Pe. 020-27290506 Website: www.gomoncoe.org Email: gomon@yulkoo.co.in

Founder President: Shri Rambhua Moor

Date: #2/HW/2022

Tie.

The Breach Marger Union bank of India, Power

## Subject: Invitation for Yoga day celebration at GSMCOE.

Respected Sec.

We introduce memotives as G. S. Mater Callege of engineering flatowed in additional to University of Parts and approved by AICTE New Delto. The college non-five UG program.

We are exhibiting 8° international year day on 21° justs 2022 and taking this apportunity to invite year along with branch staff to join with secure same. We want to exhibition this year day in collaboration with bank as it will be good relation building step as well as this cultaboration will before our faculty and staff to get more inviging about banking domain.

Looking forward the your positive commet in this regard.

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(Agaresed by AJCTE and Govt. of Malaradova, Affiliated to Savitifial Phote Pune University) HITE Code - Charles - University Addition 1D - PC-P5/CNGC/Chapters freight garnoss@yahon.co.in Ph. 020-27590500 Website: www.girtozecse.org

Founder President: Shel Hambhair Manu

Date: 10/06/2012

## NOTICE

All the students of GSMCOE are benefy inflamed that, College is safebrating benerational Yogn Day on 21 June 2022. AS Startists on solud to be present at 10 am sharp it college previous.

#### MODEL

- APERIORISTS MOST BE PROSEST IN COMPURZABLE CLUTTES FOR 100G1 PROCESSES.
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- IF APPENDANCE IN COMPUSSION

Mr. Himedita Th

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Principle GSMCGE PROMITER

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## "Empowerment through Technological Excellence"

#### GENBA SOPANRAD MOZE COLLEGE OF ENGINEERING

## Report on International Yoga Day Celebration

International Yoga Day is observed every year on New 21 to name assumes about this ancient practice and to collebrate the physical and spiritual provens that yoga has brought to the world. Yoga in a practice which plays an important role to relaxing the extend and body and becoming people's instrume system.

On 21st June 2022, Genbu Suparius Moor cuttege of Engineering Passy is cultaburation with Union Bank of India Passe oriotested 8' international Yoga Day, it was attended by comproducent Professors and Students from different department of the college with great cuttanium.

The event began with a brief introduction on Yoga Day by Ms. Seems Shipekar and by welcoming the gime of house Ms. Usha Jalkhani. Then Larry lightning caremosy was conducted.



Water up a version with taken and all the students practical. A portional setting and standing analysis of the setting and standing that is approximate of these were explicited sortificationally. The pointration concluded with the special of our flow his Principle Prox. (Dr.) Reservois other section for incoveraged maketic historical require voice to remain fill and improve positionals.

Ms. Usbs JaUkhani addressed the participants on the aspertance of yaga practice in our life.



All facelities, cost and attakents were tenglic the importance of Yoga in their title & how to maintain the harmony between body and mind. The students discussed the importance of yoga and also exhibited yoga postures and promised to introduce this activity is their daily lives.

After sessions of different Yegs assess about onder cheesing was taken. At the end Yegs teatroches and few guest exembers from Union bank was delicitated with earlings of beautiful rose plants.

Teansational Yoga Day oxistrations ended with a loga states under the aspervision of the Head Cultoral Committee, Professor Shilps Mahajan.

The function ended with a vote of thanks by Prof. Vishal Mone, Momber Cultural Committee.

Mr. Negotta Thorse

Escalin cooldinates

Dr. Ramygo Komar Santo

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# GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

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Frencher President: Shri Rambban Moor

Date:21/86/2003

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#### Letter of Stanks

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# GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Academic Vear 2021-22

## Affendance of Students

## "International Your Day Colchration" Date of Event: 21/06/2022

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# "EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE." GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Academic Year 2021-22

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# GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

Academic Year 2821-22

## Attendance of Faculty

## "International Yoga Day Colebration" Date of Event: 21/86/2022

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Academic Year 2021-22

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Abbreviations: TW: Term Work TH: Theory OR: Draf PR: Practical Sem: Semester

Computer Laboratory IX (Distributed Computing System)

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2015 Course

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# Savitribai Phule Pune University Fourth Year of Information Technology (2015 Course)

414469D; Audit Course-VI

Robotics is a branch of AI, which is composed of Electrical Engineering, Mechanical Engineering, and Computer Science for designing, construction, and application of robots. The robots have mechanical construction, form, or shape designed to accomplish a particular task. They have electrical components which power and control the machinery. They contain some level of computer program that determines what, when and how a robot dues something.

- To get the detailed robotics and rapid development.
- To understand the robots functions.
- 3. To understand how mechanical devices converting Into intelligent machines through a branch of computer science called artificial intelligence (Ai). Course Outcomes:

By the end of the course, students should be able to

- 1. The goal of this course is to familiarize the students with the basic concepts of robotics, artificial intelligence and intelligent machines. =
- 2. It will help students to understand and apply principles, methodology and techniques of intelligent systems to robotics.

# Intelligent Robotics

Automation and Robots, Robot Classification, Robot Specifications, Sensory perception, Robot control and intelligence.

Unit II Direct Kinematics

Coordinate Frames, Rotations, Homogeneous Coordinates, The arm Equation, (DK analysis of - 2 Axis and 3 Axis Planar robot, Four axis SCARA Robot, Five axis Articulated robot).

#### Unit III Inverse Kinematics

General Properties of Solutions, Tool Configuration, (IK analysis of - 2 Axis and 3 Axis Planar robot, Four axis SCARA Robot, Five axis Articulated robot).

# Unit IV Workspace Analysis and Trajectory Planning

Workspace analysis, Work envelope of 4-axis SCARA Robot, Work envelope of 5-axis articulated Robot, Workspace Fixtures, The pick-and-place operation, Continuous-Path Motion, Interpolated Motion, Straight Line Motion.

#### References:

- Robotics and Al", Andrew Staugaard, PHI.
- Fundamentals of Robotics- Analysis and Control", Robert Schilling, Pearson Education.
- Introduction to Robotics", J. J. Craig, Pearson Education.
- "Robotics", Fu, Gonzales and Lee, McGraw Hill.
- 5. "Artificial Intelligence: Structures and Strategies for Complex Problem Solving", George F. Luger, Pearson Education,
- 6. "Industrial Robotics- Technology, programming, and applications", Groover Weiss, Nagel Tick to Milet it out DILEGE and Odrey, McGraw Hill Call Supmos

laine Rich and Kevin Knight, "Artificial Intelligence", TMH.

Information Technology) Syllabus

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2015 Course



Savitribal Phule Pune University, Pune

## B.E. (Information Technology) 2015 Course to be implemented from Academic Year 2018-19 SEMESTER-:

		Teac	hing Sch	51MG		Examina	tion Sc	heme			
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414455	Software Design and Modeling	3			30				70	100	3
414456	<u>Elective-i</u>	3	••	T "	30			T	70	100	3
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Abbreviations: TW: Term Work TH: Theory OR: Oral PR: Practical Sem: Semester Computer Laboratory-VII (Information and Cyber Security+ Machine Learning and Application) Computer Laboratory-VIII (Software Design and Modeling)

	Elective I		Elective II
414456 A	1. Wireless Communicațions	414457A	1. Software Defined Networks
414456B	2. Natural Language Processing	414457B	2. Soft Computing
<b>41</b> 4456C	3. Usability Engineering	414457C	3. Software Testing and Quality Assurance
414456D	4. Multicore and Concurrent	414457D	4. Compiler Construction
	5ystems		
414456E	5. Business Analytics and	i 414457E	5. Gamification
	Intelligence	i	

	Audit Course-V		
414461A	1. Emotional intelligence		
4144618	2. Green Computing		
414461C	3. Critical Thinking	1	
414461D	4. Statistical Learning modeLusing R.		q
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∦ Syllabus

2015 Course

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# Savibribai Phule Pune University Fourth Year of Information Technology (2015 Course)

414461D: Audit Course-V

Statistical Learning Model using it

Statistical learning theory is a framework for machine learning drawing from the fields of statistics and functional analysis Statistical learning theory deals with the problem of finding a predictive function based on data. Statistical learning theory has led to successful applications in fields such as computer vision, speech recognition, boundarmetics and baseball.

- 1) To get familiar with the explosion of "Sig Data" problems, Matistical learning /machine learning has become a very hot field.
- 2) To learn statistical learning and modelling stills which are in high domand also cover basic concepts of statistical learning / modelling methods that have widespread use in business.
- 3) To get hands on the applications and the underlying statistical / mathematical concepts that are relevant to modelling techniques. The course are designed to familiarize students in implementing the statistical learning methods using the highly popular statistical software package ft.

## Course Outcomes:

By the end of the course, students should be able to.

- 1) Students will be familiar with concepts related to "data science", "analytics", "machine learning", etc. These are important topics, and will enable students to embark on highly rewarding carrens.
- Students will capable of learning "big data" concepts on their own

Unit

Introduction to Statistical Learning

What is Statistical Learning, Various issues to consider while "modeling"

Heatt II

Getting started with R programming

introduction to the R-Studio, user-interface, Basic commands, Data Structures in K. Graphics, Reading data into R.

Unit III

Linear Regression models including Lab

instructor should select a problem statement and design the assignment for Linear Regression.

Classification models (Logistic Regression and LDA) with Lab

instructor should select a problem statement and design the assignment for Lugistic Regnession and LDA.

District VI

Tree based methods (regression trees, classification tree) with Lab

Instructor should select a problem statement and design the assignment for Tree based methods fregression trees, classification trees with lab. PRIMELLAL

## Reference Sooks

1) An introduction to Statistical Learning with Applications in R. Goreth, Beffer, Dantela Witters Travel Hustie and Robert Tibshirus - 6th edition Springer Publications

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2019 Course

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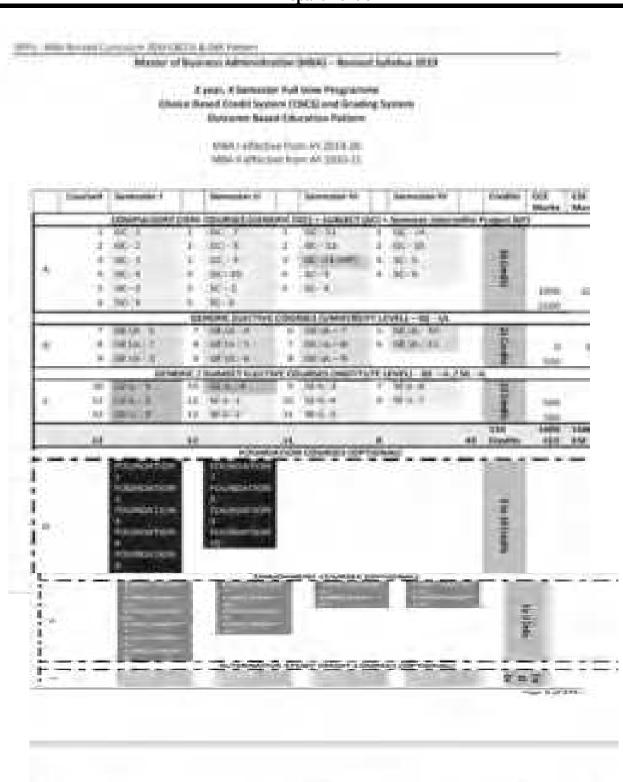
# "Empowerment through Technological Excellence" GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING

25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to Savitribai Phule Pune University)

Website: www.gsmozecoe.co.in Email: gsmoze@yahoo.co.in

## **Department of MBA**



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Prof. Summing Bouge; p.O.L.S.

## **Student Strength**

## Academic Year 2021-22

Class: MBA

Batch Year	Student Name	Roll No.
2021-2022	AWATI DEEPASHREE SUNIL	MBt
	BADGUJAR AJAY SURESH	MB2
	BHARUDE MANISH MANGAL	MB3
	CHAVAN PAYAL ULHAS	MB4
	CHAVAN PRIYANKA UMESH	MB5
	CHAVHAN AKSHAY NARAYAN	MB6
	DADASAHEB MARUTRAO SHELKE	MB7
	DHAKE LILESH LAXMIKANT	MB8
	DOLAS DEEPIKA RAJU	MB9
	GAIKWAD NIKITA SAMBHAJI	MB10
	GAJANAN SURESH JADHAV	MBH
	GAYKAR ASHWINI BALASAHEB	MB12
	GORANE FRATHAMESH SUDHAKAR	MB13
	JADHAV AARTI RAMESII	MB14
	JADHAV SAGAR SHESHERAO	MB15
	JADHAV SHWETA SURESH	MB16
	KADAM MRUNAL SURESH	MB17
	KAKADE AISHWARYA NAVNATH	MB18
	KAKADE VISHAL MAHADEV	MB19
	KOLHE KAJAL TUKARAM	MB20
	MAHADIK NIKHIL SHIVAЛ	MB21
	MULE ASHWINI BABAN	MB22
	NAKADI GIRISH SURESH	MB23
	NARALE POOJA DINKAR	MB24
	NIGHOT SHIVANI BABAN	MB25
	ONKAR SUDHIR BASATWAR	MB26

PAKALE SHRAVANI ANIL	MB27
PATEL TANVIR IQBAL	MB28
PATIL BHUSHAN MURLIDHAR	MB29
PATIL RADHIKA	MB 50
PATIL YAYATI PANDURANG	
PAWALE SHUBHAM MOHANRAO	MB31
PRIYA GANESH INGALE	MB32
PURVA MIRAGRAJ RAHANGDALE	MB33
QUAZI SHOAIBI/DDIN	MB34
RAMESHWAR RAMESH DEVKULE	MB35
ROUNDAL VIJAY BABURAO	MB36
SACHIN ARIIN RAHATE	MB37
SADNAPURKAR ARTHI SURESH	MB38
SANTOSH SURFSHSING JADHAO	MB39
SARPE SHEETAL SANJAY	MB40
SATPUTE RAHUL BHAUSAHEB	MB41
SAWALKAD SHITAN	MB42
SAWALKAR SHITAL VAIJINATH	MB43
SAWANT GANESH MADHUKAR	MB44
SHELKE RUTUJ POPAT	MB45
SHILPA DEEPAK BARATHE	<b>МВ46</b>
SHINDE DILIP BHAGWAN	MB47
SHINDE RAJRATNA KAILAS	MB48
SUSHMA SINGH	MB49
TAMBEKAR ADITYA SANJAY	MB50
THORAVE ROBIT NANDIJ	MB51
VHATKAR KARAN SANJERV	MB52



## Savitribai Phule Pune University Based of Studies - Automobile and Mechanical Engineering Undergraduate Program - Automobile Engineering & Mechanical Engineering (2019 pamers)

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Abberriations: TR: Theory, PR: Proctical, TUT: Tutorial, ESE: In-Sentetter Erore, ESE: End-Semester Eases, TW: Torns Work, OR: Cest

Note: Interested students of SE (Automobile Engineering and Modunical Engineering) can set for say one of the saids course from the list of such courses prescribed by Boll (Automobile and Mechanical Engineering)

## Lastructions

- Practical/Tetorial resort be conducted in faces buildes per division only.
- Minimum number of required Experiments/Anagements to PR/ Totorial shift be corred out as transferred in the syllabl of respective subjects.
- Assessment of totocial work has to be excited out as a term-week examination. Term-work. Examples at second year of engineering course shall be intered configuous security only.
- Project based learning (PSL) requires continuous executing by faculty decouploss the services. for successful aumpliction of the topics selected by the students per listely. While sesigning the maching workload of 2 Hru/soccis/initch needs to be considered for the foculty involved. The Batch scods to be divided into sob-groups of 5 to 6 students. Assignments / scrivities / models/ projects stc. under project based learning to excited throughout sensetut and Credic for PM, how to be awarded on the basis of internal continuous assessment and evaluation at the end of
  - Audit course is resulatory but mus-credit course. Enumeration has to be conducted at the end of Semistery for award of grade at institute level, Grade awarded for made crosse shall not be exhaulsted for grade point & CGPA.

	202046 - Audit Course - III	on a farmer and a second
Teaching School	Credita	Exestrative Scheme
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GUIDELINES	FOR CONDUCTION OF A	UDIT COURSE

Faculty mentor shall be allotted for individual courses and brisbs shall receiter the progress for executed accomplishment of the course, feels considering is accounty for ensuring that the course of self-learning is being purveed by the students 'in true letter and spirit'.

- If any crosse through Swayans' NOTEL! virtual platform is sciented the reinforces duction dual for of A works.
- However if any of the cowese duration is less from the dutient (5 weeks) the electric shall ensure that
  either notivities in form of antignesists, quirrer, group discussion see, (office) with the concept) for the
  buleace duration should be undertaken.

In addition to credity courses, it is manufactly that there abould be an audit course (non-certifi emerge). These account year of Engineering. The student will be awarded grade as AP on successful completion of the most course. The student may opt for any one of the sudit courses in each senester. Such audit strates can help the material to get accounts of different issues which reaks an impact on human times and enforces their skill sets to improve their compleyshilty. List of sudit courses officers in the senester in provided in the correction. Desirate one change out if far sudit courses from the list of courses recritioned. Studentim of the saids among will be done at institute level.

The student registered for anoth exame shall be arounded the grade AP and shall be included each grade in the Suriester grade report for that course, posythal student has the entrinuous attendance as prescribed by the Savitribus Phale Pune University and satisficatory in remester performance and seased a passing grade in that audit course. We grade points are associated with this 'AP' grade and performance in these returns is not considered in the substation of the policynesses indices SGPA and CGPA. Evaluation of the audit course will be done at institute level itself.

## Selecting an Audit Course

## List of Courses to be opted (Any sme) under Audit Course III

- Testerical English For Engliscers
- Entragemental Development
- · Developing soft skills and personality
- Design Thinking:

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- Foreign Language (preferablis German) Inpanentis
- Science, Trefingillogy and Society
- # The titles indicated above ore sobject to change in time to come and such as absention (if any) should be brought to the notice of the BoS.

## Using NPTEL Platform: (preferable)

NPTEL is an initiative by MHRD to enhance fourning effectiveness in the field of underlied education by developing corrientum based video courses and web bound e-courses. The details of NPTEL courses are available on its official website www.aptoLac.in

- Students can select any one of the courses mentioned above seel has to register for the surroupending orders course available on the SPTEL platform as an Audit course.
- Once the courts is considered the attakent has appear for the extendantion or pur the guidelines on the NPTEL portal.
- After clearing the exaministion successfully; student will be avanied with a samificant.

#### Assumption of an Audit Course

- The assessment of the course will be done at the inclinte level. The institute has to assist the
  organi of the various made courses upted by the students. The nutil terures upted by the students
  could be intenfinciplinary.
- During the course students will be substitting the online antiquaments. A copy of the sums can be substitted as a part of term work for the corresponding Audit course.
- On the satisfactory substitution of enignments, the entitles can mark as "Proved" and the statest
  will be awarded the grade AP on the markshoot.

AND DESCRIPTION OF THE PARTY OF	202053 - Amilit Course - Pi	/
Teaching School	Credits	Examination Scheme
The state of the s	S FOR CONDUCTION OF A	The state of the s

Faculty encour shull be abletted for individual excess, and believe shall recoiour the progress for excessful accomplichment of the course. Such menitoring is necessary for excessing that the emerge of self-learning is being proveed by the students 'in true letter and spirit'.

- If any course through fivegous/ NPTEL/ serious platform is selected the evinious duration shall be of 8 weeks.
- However if any of the course duration is less than the desired (II weeks) the moreor shall consend that other activities in force of assignments, quirees, group discussion sto. (allied with the course) for the balance duration should be underloken.

In addition to credits coveries, it is mundatury that there should be on made nourse (non-credit course) from second year of Engineering. The student will be unsimped grads on AP on numeral exceptation of the sadit course. The student may out for any one of the sadit courses in such remarks. Such sadit courses can help the student to get accurance of different issues which make an impact on homes fives and exhibits their skill sets to terprove their employability. List of sadit courses officed in the survivalues. Students can shows one of the sadit courses then the list of courses courseless. Evaluation of the sadit course will be since at institute lovel.

The student registered for stuff course shall be assured the grade AP and shall be included such grade in the Scenator grade report for that towers, provided student has the minimum attendance as prescribed by the Saysteibas Phale Pure University and autalianary in-constant performance and missend a pussing grade in that sudit overte. No grade points are associated with this 'AP' grade and performance in these courses is not unasideted in the calculation of the performance indices SGPA and CGPA. Evaluation of the guidit course will be done at institute level itself.

## Selecting an Audit Course

## List of Courses to be opted (Auy one) under Audit Course IV

- Language & Mind Emotional Intelligence
- Advanced Foreign Language (perferably German' Japaneus)
- Haman Behavlour
- Speaking Effectively.
- Business Ethics
- Technical writing Research writing
- # The sides indicated above are subject to change in time to cases and such an alteration (if say) about be brought to the notice of the BoS.

#### Using NPTEL Platform: (preferable)

NPTEL is an initiative by MHRD to enhance learning effectiveness in the field of technical education by developing curriculum based video ususes and web based e-courses. The details of NPTEL courses are available on its official website www.aptgl.ac.in

- Students can select any one of the courses mentioned above and has to register for the
  corresponding online course available on the NPTEL plotform as as Audit course.
- Once the course is completed the student can appear for the examination as per the guidelines on the NPTEL portal.
- After clearing the examination successfully; student will be awarded with a certificate.

## Amendment of an Audit Course

- The assessment of the course will be done at the institute level. The austinue has to makes the
  exceed of the various swift enurses opted by the students. The audit course opted by the students
  would be interdisciplinary.
- During the course students will be subscitting the ordine ansignments. A copy of the same can be submitted as a part of form work for the corresponding Amilt course.
- On the anticlastory submission of assignments, the legislate can mark as "Process" and the student will be awarded the grade AP on the mark glops, as





Enhance: Design, Development and Sophreumsteine

Conta Separate Mayo Treat's

## GEMBA SIDPAHRAD MOZE COLLEGE OF ENGINEERING

Dalmodi, Poer - 411945 . Machining Engineering Department

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Head of the Department MECHANICAL ENCOREFRING Gesta Organica No. v Calago al Priga 15/MW, Billional Priga - 479-18



# Savitribui Phule Pune University

Sourd of Studies - Automobile and Mechanical Engineering Undergraduate Fragram - Mechanical Engineering (2819 postern).

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III CHARLESTON AND THE	Machining Science & Technology			1000		-			-		10.00		100	300

Abbreviations: TH: Theory, PR: Peaciest, TUT: Televist, ISE: In-Secunity Runs,

Note: Interested students of TE (Automobile Engineering and Muchanical Engineering) can upt for say see of the mailt course from the list of main courses prescribed by BOS (Austrachile and Mechanical Engineering)

- Practical/Tutorial must be conducted in FOUR banders per distains only. Instructions:
- Mourous sumber of Experiments/Assignments in PR/Tuxurial shall be carried our as exentissed.
- Assensement of paperiod work has to be carried out aimiliar to term-work. The Grade cum marks for Tororist and Term-work shall be awarded on the basis of cantinuous evaluation.
- "Audit course is mandatory but non-credit course. Examination has to be conducted at the and of Sequesters fine award of grade at institute level. Grade awarded for sudit source shall not be exhalated for grade point & CGFA.



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Touble	e Schatter	Credi		Examin	erian Scheme
Precion.	2 Hra./Week	Prottical	1	TW	25 Mecto

Provequition: Stockers should have intercludge of Construction and working of IC engine. / sweepensor / gene hos / contributed paraphall stock. Working principles of any type of mechanism / power plants. Working of electric and bydraudic systems of 4 schedule seducts. Working of machine tools, engine and transmission of different monomorphy and home applicators. Advanced transmission for different manufacturing processors. Solid mechanism and design of machine elements.

## Caurie Objectives

- INTRODUCE the skills required in an industry such as during, development, assumbly & disasterably.
- DEVELOP due shifts empaired for their diagreese of engine and transmission of different entremetive and various horax applicators.
- 3. ESTABLISH the skills required for analytenance of any marking load.
- 4. CREATE awareness about indicatrial environment.

#### Course Outcomes:

On energletism of the caseso, learner will be able to

COLAPPLY& DEMONSTRATE procedure of immedity & disasserably of various reactions.

CO2.DESIGN & DEVELOP a working/model of machine parts or any new product.

COS EVALUATE fact with disgnosts on the markines, muchine trots and house appliances.

COAIDENTIFY & DEMONSTRATE the various antivities performed in an industry much as maintenance, design of components, material selection.

#### Course Contents

- Assembly and Discessiably of any of the following medianical systems: subsystems: bicycle (grams), e-Bikes, e-Motor Cycles, Dennes, Flying devices, gon: box. KI regines, ormeifugui, pump etc.
- Assembly-Dimmembly/Fault diagnesis of home appliances such as mixer, grinder, weahing machine, fan, evens, gas gayser, chopping mechine, knewling machine, exemise machines, etc.
- Development and deconstruint of working/unimation model of any unotherizer.
- 4. Design a circuit of electric and hydraulic system of 4 wheelers and its verification.

433

Circuit design /PCB design using software for control of BLDC abusels motors used in a-Vehicles.

- 5. Undertake total preventive maintenance for any machina tool or muchimical system.
- Visit to an industry for awarmsess about preventive maintaneous.
- Use of ergonomic principles for the design of hand tools, control in automobile darkboards.
   Instrum operated mobile devices.

3-11

251F man



- Use of afternative materials in the construction of doily activity machine and tool compounts
- Interpretation of Drawings; Exercises in identifying the type of production, extracting important functional dimensions, checking the number of pure in an assembly. Checking and listing mining directalous.
- 10. Exercises in -preparation of detailed production drawings as per INS conduct of simple muchine pure having relevant speed and indications (limits/tolerances, surface finish, the process of production, relevant tools, unweights, remarking instruments).

The documentation activity as a part of the Term work shall not be restricted to merely generation of 2D/3D CAD Drawings with documents (as applicable), Exploded View, Flowchiet of Mointenance Work sto, but can be beyond.

Skill Development Documentation Divey must be maintained by every student.







110	302848: Augus Course V	
Tearbing Scheme	Cruftis	Experimenton Scheme
	Non-Credit	

#### GUIDBLENES FOR CONDUCTION OF AUBIT COURSE

Faculty secretar shall be effected for individual courses and beinks shall execute the progress for successful accomplishment of the course. Such assessoring is recessary for ensuring that the concept of acti-learning is being pursued by the students 'in true letter and spirit'.

- If any course through Nwayers/ NPTEL/ virtual platform is selected the minimum duration shall be of 8 weeks.
- However if any of the course duration is less than the desired (8 weeks) the menter shall ensure that other activities in form of sosignments, quiezen, group discountre etc. (allied with the course) for the belance duration should be undertaken.

In addition to useful courses, it is mandatory that there should be an mulit course (non-could course) from third year of Elegisteering. The student will be awarded grade as AP on successful completion of the audit course. The student may upt for any one of the audit courses in each constant. Such mulit courses can help the student to get awareness of different issues which make an impact on issuess lives and enhance their skill sets to improve their employability. List of sude sources officed in the nesteeries is provided in the carriculum. Students can choose one of the sadit courses flow the list of sources mentioned. Evaluation of the sadit course will be done at institute level.

The student registered for audit unasse 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 on personled by the Saviteibal Phule Pone University and satisfactory in-terrester performance and secured a passing grade in that sadit course. No grade points are associated with this 'AP' grade and performance in these courses is not considered in the calculation of the performance indices SGPA, and CGPA. Evaluation of the sadit course will be done at institute level itself.

#### Schetting an Ambit Course.

### List of Courses to be upted (Asy one) under Audit Course V

- Entrepresentable and IP strategy
- Engineering Economics
- Management of Inventory Systems
- # The titlex indicated above are subject to change in time to come and such an abtration (if my) should be brought to the notice of the BCS.

## Using NPTEL Planform: (professible)

NPTEL is an initiative by MERO to enhance learning effectiveness in the field of technical education by developing curriculum based vides courses and web based o-courses. The details of NPTEL courses are available on its official website www.xpmt.ac.in

. Students can select any one of the courses mentioned above and has in register for the





corresponding unline course available on the NPTEL platform as an Audit course.

- Once the amore is completed the student can appear for the examination as per the guidelines on the NPTEL portal.
- After clearing the examination approachily; student will be awarded with a carridicate.

#### Assessment of us Audit Course

- The assessment of the course will be done at the institute level. The institute has to exclude the
  record of the various audit assess opted by the students. The audit course opted by the students
  need be interdisciplinary.
- During the course students will be submitting the selline assignments. A copy of the same can be arterated as a part of term work for the corresponding Audit owerse.
- On the satisfactory subtrituies of assignments, the inclines can mark in "Present" and the student will be awarded the grade AP on the mark-eleret.



281 PARK



	SPIENCE AND CORNE VI	
Trucking Schenge	Credio	Exercisorios Schools
	Trian Credit	

#### GUIDELINES FOR CONDUCTION OF AURIT CHERSE

Frenchy sacrator about he adotted for individual courses and holds shall assailer the program for ancesofid accomplishment of the course, Such anadvoring is necessary for ensuring that The concepts of self-fenencing is being presured by the etudents 'in tree letter and spirit'.

- If very consess: Harmogh Society and NOPSCLE stream plantitude in substitut the techniques observing about fac-OF Resemble.
- Thereevest if may sel the separate discussion in lives than they decired (if months) this parameter shall necessarize office activities to faces of accignments, quirses, group discussion etc. fulfout with the overes) for the bulance decision should be undertaken.

In addition to creative powerers, it in magnitudes that them pleased be an well treated from-undit courses. from third year of Engineering. The student will be awarded grade as AP on sense of discounted to application of the made course. The workest may upt for my nex of the undit courses in each semiptor. Such andit courses can belp the student to gar eventures of different tiones which such as texpect on busines lives and enhance their skill sade to improve their compleyability. List of soulli assumes referred in the computer is provided in the curriculum. Students can absent one of the walls anaton from the list of courses recessioned. Exaltestics of the sadit course will be done at lentistic breef.

The student registered for audit course shall be awarded the grade AP and shall be included soch goale. to the Semester grade seport the that course, provided student has the minimum attenduces to prescribed By the finethilles Phade Pune University and radisfactory in-consister preferences and sociated a pussing greats in that and it course. No grade points are associated with this 'AP' grade and perfutnment in three courses in not completed in the collectation of the performance indicate SGPA and CGPA. Englisher of the audit course will be done at institute level limit.

#### Selecting an Audit Course

#### List of Courses to be opted (Arry one) under Audit Course VI

- Husburn and Systemable Development?
- Management Information System
- fotomational Husiness.

# The titles indicated above are subject to change in time to come and such an obsertion (if age): should be brought to the notice of the BOS.

#### Using NPTEL Platform: (preferolde)

NPTEL is an initiative by MHRD to enhance learning effectiveness in the field of technical education by developing carriculum hased video guarses and web based a-courses. The datails of NPTEE, resulties are available on its official websity www.aptel.ac.in

- . Students can refect any one of the courses mentioned above and has to register for the corresponding onling course available on the NPTIII, platform as an Audit course.
- Once the course is completed the student can appear for the exteniousless on pur the guidefines on the NPTHL ponel.
- After clearing the examination successfully; maked will be awarded with a curtificate.



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#### Assessment of an Audit Course

- The assengment of the assence will be done at the institute level. The institute has to maintain the record of the various audit courses opted by the students. The audit overse upted by the malmits could be intentisciplinary.
- During the course students will be unbuilting the coline assignments. A copy of the same can be radinisted as a part of term work for the corresponding Audit course.
- On the satisfactory submission of assignments, the institute can muck as "Present" and the student will be awarded the grade AP on the mark-sheet.







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#### GENBA SOFANRAO MOZE COLLEGE OF ENGINEERING

Referred, Page -411685.

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fait he.	Name Of The Student	Bull No.	Name Of the Student
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.64	ABNIEWEK BARKELIK BARAL	0.41	BALRIE ABHRIPE'S SHAVILADAY
- 44	ARASH SATTATRAS SUITAR	4.49	CAUTING PROVINCY SURVEY
84	AMBUT SHEESE SATERIAL	3-49	CADAKAR BERYA DISSANASIAY
. 3.5	SAME OF THE PARTY	Ailo	UNIXAD SUDDIFFICANI VIAMANA
44	DANKSTON AARASH SHANKAR	6/60	CALIFI MACHININANA IN IASHAW
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AA	AAACAAATTI BARAN BAATKA	ASE	SHACKS AWKET ANS
- 44	ARDYS SWAFNE, BANDANTH	6.54	COLAN AVERT HALDIDAN
AR	ALTO HELISHINGSH DATTACHATE	A-65	DIDSAM PRACHESISH POADUSE
6.11	ANARI SANDRASHI SUBMASH	A-36	BICHAN RUSINEO DATTATRAY
+ 12	BHC DHANBAL WAXEL	A47	GOURDHOL ANNISHMAR BARRURAG
AU	BANKAR AGRITOGRI ANNUTSI	A-54	SELINE ANDREYA CANCEL
618	BASIVINAR MORE! MAJEE	6.59	CLASA, ARRESTE SAME.
A-35	BAYMERAA PRATECINA SARESH	A40	HARDAGIAD AD DANY PRABULACAD.
A-18	BELDI COMM, KOHIDAS	A-61	HINNE TEXAS MILLING
417	BAASAAK PAADYUMMA KEIHEIR	A-EE	INDRAW KINCK PURDITAND
433	BHADSE RAYNESAA AAWESIA	A49	DADAMA ASHIDA BURNASA
4-15	BALLCORN KINAY LAYDAN	0.44	DECREASE PROVINCES AND THE STATE OF
A-28	BIALDAN SAVO GULAMALI	A-65	ENDHAN FRIDANIA MICHIN
4-75	Brich MANGEGY BAUGASTY	A-60	SADMAN TUSHAN ATUS
A-32	BHOS KATIS BANKHADE	647	SMITTAP THRIBASAN POPAT
4.03	BINCH PRIYA SAMPA!	A-60	JAIN SHUDHAM DIPAK
4-24	DHIDE VAISHBAY! SANUESP	A 40	INJUGACINEAR SWANDIN RAVERS
3.35	INFERRAL ANGUA REPORTAG	A-30	DEMINISTRATION AND TRANSPORT
A-25	ROBIAN MAYON BANKS	4/1	DET DOGRAMS DRIBBAGA
A-27	SOUSE ON THE AMERICA	A72	KALMANIA ASAR HASAMBIRIAN
4/28	CHMADELIDE CANADA RAJENDRA	6.28	CAL SANGAR PRATICIONS SANGARDESIA
A-29	CHANGOES SHUBNAM SACAS	A-74	KAMBUL AHUI YAKOO
A-90	CHM/THE SACKER RANCHARDRA	A-75	KANDLE DINA LILAN
A-11	CHAVARI ROMA, DEVIDAS	A-05	RAMBLE TICHNAL ELENATION
837	CHICANI AGITYA MANUTI	4-37	SAMBLES BRANCH PATE
433	CHIPADE SHIVEAU TASHINISAIT	A-76	ERRAIGHAR MAYOR MACHINARD
4.34	DANGE BROTHERS DEPONSITIONS	679	ESUSANI D'TAMINAU
A-85	GATTATRAY MOTRAM EURADE	A-90	RAMAGDISTA SUND INDAMENTO
AM	THEFAR TASKIMMET KAAAA	A41	NONANI INSCRINT MANUE
A-32	DESPAREN KLAURE MANUTA	A-82	RISERIAGAN ARIHAY UNARAD
A39	DESEMBER MARIA HISAKAL	640	MINESON KIDOTH ANNAMA
A-99	DESHALARY SHEERING (ACADEM)	6.98	KTWASHING KIDACH PROPERTY
A40	COLTAN ASSESSED MINAUSCAN		# A Principle Company of the Company
A41	DIAMAGNAL	A 85	RESUMENAR PRATICIONALES REPARADOS
A-42	DHINE YASH JITTHONA	A-86	REMINERAL SANCOCH AREANDA
A-43	PURAMU DITEL AND	A-87	EUSQUAN DESENDA BRANDANCE
A-95	DIAGRACIE TRAVERS SANIAY	ARE	LONDHI CHAMINAJET MANUS
	GARONED STATES BEAUTIONS	- 68	MAGAE EXURGINAL YMAN
649	DESCRIPTION SERVICE STREET, ST	A/90	MANE ARELL MACHINERA







#### Signitribui Phule Pune University, Pune T.E. (Electronics& Telecommunication Engineering) 2019 Course (With effect from Academic Your 2021-22)

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394133	Digital Communication	63		150	30	36		-	Ξ	100	10	+	7.1	91
394393	Electromagnetic Field. Theory	65	-	10	34	70	15			135	83	7	41	14
304165	Database Messgoment	-01			30	30				100	03			103
384184	Microsophic	61	-	-	341	76		-		100	-01		31	-03
304185	Ebelier-1	-03		1	30	76		-		100	88		-	03
394136	Digital Communication	1	111		-			30		30		m.		91
304337	Database Management Lab	(1.0)	10	1		4		*1	25	21		-01		97
384188	Minwontotler Lab	-	100					59		50	7	-91		*
344339	Eliettey ( Lab	2.	100	H	-	177		75		25	100	11	1	101
304199	Skill Development		jia	Œ			:25		Ŧ	25	77.	111	$\pm$	-01
304178A	Mandatory Audit Cours	100												
	Total	18		144	150	350	**	125	25	700				
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#### Eigentlieg -I

- 1) Digital Signal Processing
- 2) Elemen Messermen
- 35 Fundamentals of 2AVA Programming
- 4). Congraint Newtonio





# Savoribui Phule Pune University Third Your of E.S. Te Engonering (2019 Course) 304190: Skill Development.

Teaching Schoose	Credit.	Examination Schemes
Practical: 62 hrs./week	01	Term work: 25 Marks

#### Prorequisite Courses, if any

- 1. Sinio of Electrolics Companyon.
- 2. Warking of Operational propilities
- 1. Basing of Electronian transportation instruments and Fools.

#### Companion Course, if says --

#### Coarse Organization

- To build and opprade practical knowledge eithe collections.
- . To make makets Constructive with required that will
- . In property youth work to paint "Make to bedie" online or
- Ye gove and health and bloom among traders in specific 447 and
- To cutting Designator window also periographed experience.
- To improve professional state such as reconstructionals work communication shall follow pleasuring

#### Course Deboone: After Summafailty completing the source.

- COS: Naukan Stands recognize the sent to organize in tralegeration and life-ineq burning in regulared staff wen
- C00: Student needs to experience the impact of industrias on audiety by visiting different industries and analysis and the importance of industrial products for energy and digital sincular and systems.
- COD: Student has to make use of the academ electronics and ET Engineering Totals and Yestenington for writing electronic originarying profilers.
- COA: Student would be able to communicate effectively at different sortenad and admirate abrevia.
- COS. Student will exhibit inedesthip skills both as an infrished and so a member in a most in multiplicate, as a removal.

#### List of Laboratory Experiments

#### Group A (Any Three)

#### Testing /Measurement/Califoration/Troubles/socion/Maintenance/Incivillation

Case readen on Soudy, Testing and mentenance of Hotories.

A. Apply skill sets manifement in Minsep A Skiller hand toldy life chronical as per presidency of late or equipment's.

	B. Apply Skill sen recettood in Novey A Skills Justy be converted by mining any Automobile service consendance; maintenance service control or reland industry.
	Note: Batteries of a Vehicle & Technology Involved (Lithium Batteries etc.)
L	Case study on Automotive Electronics. (Sensors, Charters, Controls, Sussenadurer's devices etc.)  A. Apply Skill and recordinated in Milesup & Skills Janel Group & Skills 2 which is related to necessarize absolute may be constrol as per trackability of lab or equipment is.  OH.  B. Apply Skill and monthload in Nilmap & Skills Jeour be constrolly visiting any Automotive service control or related industry.
3.	Case study on Biomedical Instrumentation  A. Apply Skill ant mantioned in PGroup A Skills 2 which is related as assumption electronics tray be revored to per scalability of lab or agrigment's  OR
	B. Yosh hipmedical intersect maintenance service centers  OIL  C. Yield Hispitals or related indicary.  Note: Students are reported to have place armost technology / licentiace / maintenance / artiferation of shortreak (notenance) indicates of short page pages.
-	Transferencing and recomment of PCR Boards & Controllers
1	Troubladeuting and assessment of Power supply
	Group B (Any Two)
	Software / Hurdware Design
h	Design and Standate de-du front converter for buttery-based applications  Design a conventional de-du front converter to sup-og the buttery voltage of 5 V to 38 V. Dex  the circuit diagram and find required value of duty ratio. Insperson the stream in open-near  TDNA and/ware. Plot the graphs of corput voltage and PWM signal with respect to tone.

## Design a well page(s) A. Using different text Reconting tags:

- 86 With links to different pages and allow ravigation between pages
- C. With Irragos, tables and frames
- D. Using style shows to maintain uniform style for all web pages
- E. Using a fight that you all typic of soverels.
- F. Validate all the corrects placed we the fires using laws for pt.



	Note: Use maximum above with a little of the								
3	Note: Use maximum above points while designing Web page:								
	A. Design and Simulate of SMPS of 24 V (2) 1A.								
	In Production of the Control of the								
	B). Design, simulate and implement hash converter using 8Cs like LAD842 F134 3124 and								
	per retrouge parameters (ske								
	L. Lond regulation.								
	2. Line segulation.								
	3. Ripple regardiery								
	4. Output impolators and								
	5. Dropout solings.								
	6. Note: Hardware hand an ignorests:								
	Note: EDA tool (NEMotions/ORCAD/PSPICE / Altion Berigner toltr etc.)								
4	Design and Sunslate do-de boost sunvertor for hattery-based applications								
	Design a conventional du-de bount unoverter to stop up the battery voltage of 5 V to 10 V. Elex-								
	the circuit diagram and find required value of daty ratio. Implement the circuit in open-neur								
	TSNA software. Plot the graphs of cutput college and PWM signal with respect to sine.								
3.1	Besign and Simulate PID Controller hand on OP-AMP								
	Design as analog PSO controller to teach a retirement voltage of 3 V in a pircuit. Discovering advanta-								
	diagram of the controller and implement the circuit in open-waster TINA software. Change to								
	enforcement veloage to 10 V and show that the circuit can still track this abangos references eviltage								
	Where the address of 5 constraints gains via: proportional pain, tempral gain and derivative gain to								
	Вис выправления:								
	Group C (Compalsory)								
	Industrial Visit (Practical Visit)								
1.7	Industrial truit to Massengere (Coldentons' service department of Endeador								
	Institutes/Hospitals/Service protects ms. Society bhould visit to related field and extend report, in a								
	prodefined former.								
1	bedontrial voit to influence industry to understand the different processes and skills required as a								
	software professional anginess								



## Group B (Compulsory)

Discussion tarion Specification (Manual Study of departmental two specification (Manual SOR

Note: Based on proup B swigmount, student need to prepare our manual / SOP and

## Learning Resources

#### Reterence Books:

- State Lenk, "Practical design of Forest Supplier", June Wiley & Suns, 2009.
- Albraham J. Protestus, "Switching Fower Supply Design", McGron-Hill, 3rt Edition. 2009.
- Kluesdpur H.S., "Horredical Instrumentation", 7501, 34 Edition.
- W Basshurt, "Printed Circuit Boards Design & Technology", Tata McGrew Hill, 2º Edition.
- D.Petransbin, "Principles of Industrial Intersectation", TMW Patricking Co., 2<sup>rd</sup> Editors, 2008.
- 6. R.K. Jain, "Mechanical and Sobstrial Memoreness", Khanna Publishers, New Delts, 13th
- 7. L.D. Geettschu, "Maintenance of lostruments and systems Practical greder for measurement and control\*, International Society for Automation, 2rd Edition, 1906.
- . B. Henry W.Cht, "Name Reduction Sectionness in Electronic Systems", John Wiley & Sons, USA, 2rd Edition.
  - Kim R Fowler, "Electronic Instrument Design", Oxford University Press, 1997, 14 Edition.
- 10. Finisher Dang, And Calping Dung, "Fundamentals and Applications of Libbiats-lint Batteries by Electric Drive Vehicles", Wiley Publication, 1ºEdition.
- 11. Web Technologies: Black Book, 2018, Dresements Print (1. Dansey 2018), 18206-10. 0085052400. 15BM-13: 978-9360654WI
- 17. Jerus Ser Robbins, "Learning Web Design: A Beginner's Golde to HTML, CSS, LiveScript, and Web Onebio", ShortFORaity, 5% Edition.
- 13. Thomas Powell, "Web Design: The complete Refinance", Ties McGraw Hitz, 2rd Edition.



### B.E. (Information Technology) 2015 Course to be implemented from Academic Year 2018-19 SEMESTER-I

				distribu	CUMBER						
		Teach	ing Sch	torre			1.5				
Subject Code	Subject	Lesture	Principal	Tutorial	In-Sem	TW	Pit	OR	End-Sem	Total Marks	Crostle
414453	Information and Cyber Security	3	-	-	30	12	110 ad.	1	70	100	3
414454	Machine Learning and Applications	4			30	-	-		76	100	4
414455	Software Design and Modeling	3	7		30	127	-	7	70	300	3
414456	Elective-I	3	-	-	30	-	-	1.440	70	100	3
414457	Elective-II	3	343	+-	30	-	-	-	70	100	- 3
414458	Computer Laboratory-VII	77	4	+	177	50	50	121	-	100	2
414459	Computer Laboratory-VIII	100	4	-	100	50	-	50	+	100	2
414460	Project Phase:	-	-	2	144	-	-	50	-	50	rade
414461	Aust Coursell	-	-	100	- 000	15	-		466	750	
Total		1.5	. 0	2	120	100	50	100	350	150	12
Total of Part-I			26			Same See	-	750	-	_	-

Abbreviations: TW: Term Work TH: Theory OR: Oral PB: Fractical Sem: Semester

Computer Laboratory VII (Information and Cyber Security) Machine Learning and Application)

Computer Leboratory-Vtd (Software Design and Mudaling)

Computer	Leberatory Vttl (Software Design are)	Elective R						
	Elective I	414457A	1. Software Defined Networks					
414456 A	1. Wireless Communications		2. Soft Computing					
1144568	7. Natural Language Processing	434457C	Tourist and Outsity Assurable					
414456C	3. Usability Engineering	414457D	4. Consiler Construction					
4144560	4. Multicore and Concurrent							
	Systems and	414457E	5. Gamification					
414456E	S. Business Analytics and Intelligence							

	Audit Course-V
414461A	1. Emotional intelligence
4144618	2, Green Consorting
414461C	3. Critical Divisions  A Statistical Learning model using 8
4144610	4. Statistical Learning model using p

2015 Course

Syllabols

Told Street, Street, Street, St. St.

## Savitribai Phula Pune University Fourth Year of Information Technology (2015 Course)

414461D: Audit Course-V

Statistical Learning Model using R

Statistical learning theory is a framework for machine learning drawing from the fields of statistics and functional analysis Statistical learning theory deals with the problem of finding a predictive function based on data. Statistical learning theory has led to successful applications in Belds such as computer vision, speech recognition, bioinformatics and baseball.

- 1) To get familiar with the explosion of "Big Data" problems, statistical learning /machine learning has become a very hot field.
- 2) To learn statistical learning and modefling skills which are in high domand also cover basis; concepts of statistical learning / modelling methods that have widespread use in business and scientific research.
- 8) To get hands on the applications and the underlying statistical / mathematical concepts that are relevant to modelling techniques. The course are designed to familiarize students in implementing the statistical learning methods using the highly popular statistical software package R.

#### Course Outcomes:

By the end of the course, students should be able to.

- 1) Students will be familiar with concepts related to "data science", "analytics", "machine learning", etc. These are important topics, and will enable students to embark on highly rewarding careers.
- Students will capable of learning "big data" concepts on their own.

#### Unit I

Introduction to Statistical Learning

What is Statistical Learning, Various issues to consider while "modeling"

#### Unit 8

Getting started with it programming

Introduction to the R-Studio, user-interface, Basic commands, Data Structures in R. Graphics, Reading data into R.

#### Charle III.

Linear Regression models including Lab

instructor should select a problem statement and design the assignment for Linear Regression.

Classification models (Logistic Regression and LDA) with Lab

Instructor should select a problem statement and design the assignment for Logistic Regression and LDA

#### Unit VI

Tree based methods fregression trees, classification tree) with Lab

Instructor should select a problem statement and design the assignment for Tree based methods (regression trees, classification tree) with lab. FORM CHAN

#### Reference Books

Manife Cultimet on Line I) An introduction to Statistical Learning with Applications in R Gareth James, Daniela Witten, Trivor Hastle and Robert Tibuhirani - 6th edition-Springer Publications.

B.E. (Information Technology) Sullabus

2015 Course

100 - 50

#### Savitribal Phule Pune University

#### Second Year of Information Technology Engineering (2019 Course)

(With effect from Academic Year 2020-21)

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Course Code	Course Name	Teaching Scheme (Hours/Week)				Examination Scheme and Marks						Credit			
		Тлеогу	Practical	Tutorial	IN-Sem	End-Sem	M.	8	OR	Total	Ŧ	FR	TUT	Total	
214441	Discrete Mathematics	<b>03</b>	-	01	30	70	25	-	-	125	03		01	04	
<u>2144</u> 42	Logic Dosign and Computer Organization	03	-	-	30	70	<del>-</del> -	<u>                                     </u>	;-   	100	03	-		03	
214443	Data Structures and Algorithms	03		•	30	70		-	-	100	03	-	j * j	03	
27 <u>444</u> 4	Object Oriented Programming	03		-	30	70	Ī	-	-	100	E0	i	-	03	
<u>Z</u> 14 <u>44</u> 5	Basics of Computer Network	03	  -	-	30	70	-	· ·	•	100	03	- '	-	03	
214446	Logic Design Computer Organization Lab	-	02	-		1	25	25	-	50	•	01	-	01	
214447	Data Structures and Algorithms Lab	•	04	-	- :	-	25	25	-	50	-	02	-	02	
<u>2144</u> 48	Object Oriented Programming Lab	-	04	-	· -	-	25	25	-	50	•	02	-	02	
214449 j	S	-	02	-	- "		25	•	-	25	-	01	-	01	
214450	Mandatory Audit Course 3	-	-	-		-	-	-	-	•	Nor	n Creç	lit	7	
	Total	15	12	01	150	350	125	75	_	700	15	. 06	01	22	

Abbreviations:

TH: Theory

TW: Term Work

PR: Practical

OR: Oral

**TUT: Tutorial** 

Note: Students of S.E. (Information Technology) can opt any one of the audit course from the list of audit courses prescribed by BoS (Information Technology)

#Mandatory Audit Course 3:

214450A- Ethics and values in IT

2144508 - Quantitative Aptitude and Logical Reasonip

214450C- Language Study- Japanese- Module

214450D-Cyber Security and Law

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SE (Information) accomplished (2019 Course)

# Savitribal Phole Pune University Second Year Information Technology (2019 Course) 214449: Soft Shill Lab

Practical (PR) : 02 hrs/Week 01 TW : 25 Marks

#### Course Objectives:

- To facilitate a helistic development of students while focusing on enhancing soft stills.
- To highlight the need to improve soft skills among engineering students so as to become good professionals.
- 3. To develop and nurture the soft skills of the students through individual and group activities.
- To expose students to right attitudinal and behavioural aspects and assist in hubbing the same through activities.

#### Course Outcomes:

On completion of the course, students will be able to-

- COI:stricospect about individual's goals, aspirations by evaluating one's SWOC and think creatively.
- CO2: Develop effective communication skills including Listening, Reading, Writing and Speaking.
- COB:Constructively participate in group dissocion, questings and prepare and deliver Presentations.
- CO4: Write precise briefs or regards and technical documents.
- COS:Practice professional etiquette, present oneself confidently and successfully handle personal interviews .
- COS:Function effectively in multi-disciplinary and heteropmoous teams through the knowledge of team work, inter-personal relationships, conflict management and leadership quality.

#### COURSE CONTENTS

Unit I	introspective & Self Development	04 hrs
The second second		and the same of the same of

Introduction to soft skills, SWOC analysis, planning career, setting short-term & long-term grait, identifying difference between jobs & career, aligning aspirations with individual skills, understanding self-esteem, developing discipline and critically evaluating oneself

Mapping of Course	CO1, COS		
Outcomes for Unit I Unit II		Communication Skills	04 hrs

Essentiality of good communication state, importance of feedback, different types of communication, barriers in communication and how to overcome these barriers, significance of non-verbal messages as augmentation to verbal communication, group discussion, listening as the bearing, reading to comprehend, learning to skim and scar to establish relevant information, effective digital communication.

PUNE-45

Mapping of Course Cuttomes for Unit II CO2, CO1, CO5

SE (Information Technology) Syllabus (2019 Course)

Unit III	Language and Writing Skills	04 hrs
written english, frust communication, essay,	grammar, improve lexical resource, essential steps to in ness vocabulary, writing — email, resume, form presentation — planning, organizing, preparing and deli-	at feeter, office
presentation		
Mapping of Course Outcomes for Unit III	C02, C04	
Unit IV	Leadorship Skills and Group Dynamics	64 hrs
importance of resilient intelligence, being asserthinking, resolving conflictive team - positive	e cufture and leadership skills, difference between a lead te in a professional sumounding, developing empath tive and confident, 4-Os of decision making, creative a licts, working cobesively as a team to achieve suscess, t ty, respect for others, trust, goal-focused, supportivenes	hy and emotion nd solution-cent live qualities of
Mapping of Course Outcomes for Unit IV	CO1, CO5, CO6	
Unit V	Ethics, Professional Exiquette	04 hrs
open communication, p	Stress And Time Management.  If the, identifying signs and sources of stress, steps to contive thinking, belief in oneself, ability to handle fashing, organizing skills to enhance time management, in prioritizing activities, perils of procrastination, daily evaluation.	ocuting on goal
ist.	Here the management of the second	
Mapping of Course	CO1, CO3, CO6	
Outcomes for Unit VI	Test Book :	
Gajendra Singh Chauh Personality', WILEY IN	an, Sangeeta Sharma, 'Soft Skills – An integrated Approa DIA, ISBN:13:9788176556397 Reference Books :	ds to Maximite
<ol> <li>Simon Sweeney, "Englished Sanjay Kumar and I</li> </ol>	"An Approach to Communication Skills", Delhi, Dhampati gish for Business Communication", Cambridge Union ushpe LES, "Communication Skills", Oxford Univer- "Introduction 55 Psychology", 14th Edition, Gesting	uity Press, 1581

First", Harvard Business School Press, Boston, Massachusetts, 2004, ISBN 10:1591392993

Guidelines for Student's Lab Javanda 1. 1

Each student should have a Lab Workhook (sample workbook attached) which outlines each lab activity conducted. The student must respond by writing out their learning outcomes and elaborating the activities performed in the lab. Continuous assessment of laboratory work is to be assignment assessment will be assigned grade/marks based on parameters with appropriate weightage. Suggested parameters for overall assessment as well as each lab assignment assessment include timely completion, performance, punctuality, neatness, enthusiasm, participation and contribution in various activities-SWOC analysis, presentations, team activity, event management, group discussion, group exercises and interpersonal skills and similar other activities/assignments.

## Guldelines for Conduction of Soft Skills Lab

The teacher may design specific assignments that can highlight the learning outcomes of each unit. Each activity conducted in the lab should begin with a brief introduction of the topic, purpose of the activity from a professional point of view and end with the learning outcomes as feedback from students. Most of the lab sessions can be designed to be inclusive; allowing students to learn skills experientially; which will benefit them in the professional environment. Every student must be given sufficient opportunity to participate in each activity and constructive feedback from the instructor / facilitator at the end of the activity should learn towards encouraging students to work on improving their skills. Activities should be designed to respect cultural, emotional and social standing of students. Some of the activities can be designed to cater to enhancement of multiple skills — For e.g. — Team Building Activity can highlight 'open communication', 'group discussion', 'respecting perspectives', 'leadership skills', 'focus on goals' which can help students improve their inherent interpersonal skills.

At least one session should be dedicated to an interactive session that will be delivered by an expert from the industry; giving the students an exposure to professional expectations.

#### Virtual Laboratory

https://ve-iitg.vlabs.ac.in/

#### Recommended List of Lab Sessions

## Introduction of Self / SWOC Analysis -- CO1, CO4

- a. Explain how to introduce oneself in a professional manner and presenting oneself positively Name, Academic Profile, Achievements, Career Aspirations, Personal Information (hobbies, family, social).
- Focus on introspection and become aware of one's Strengths, Weakness, Opportunities and Challenges.

Students can write down their 5WOC in a matrix and the teacher can discuss the gist personally.

Open Goal and Planning -- CO1, CO4

a. Make students understand the difference between a job and a career. Elaborate steps on how to plan a career. | PUNE-45 | Pri

Students can choose a choicer and they should write down what skills, knowledge, steps are need

to be successful in that particular career and how they can get the right opportunity. Explain to students how to plan short term and long term goals. Think and write down their short-term goals and long terms goals. Teacher can read and discuss (provide basic counselling) about the choices written,

## 3. Public Speaking - (Choose any 2) -- CO3, CO2

a. Prepared Speech

Topics will be shared with students and they will be given 10 minutes to prepare and 3 minutes to deliver followed by Q&A from audience. Teacher will evaluate each student based on content, communication skills, logical and cohesive presentation of topic, perspective of student, ability to handle questions and respond positively.

b. Extempore Speech

Various topics will be laid out in front of the audience and each student is to pick one topic and speak about the topic for 5 minutes followed by Q&A from audience. Teacher will evaluate each student based on ability to think on his/her feet, content, communication skills, logical and cohesive presentation of topic, perspective of student, ability to handle questions and respond positively.

c. Reviewing an Editorial article

Either using e-paper / printed copy, students have to select a recent editorial (that is noncontroversial), read it and explain to the audience what the editor's perspective is and what the student's perspective is.

d. Book Review

Each student will orally present to the audience his/her review of a book that he/she has

#### ...4. Group Discussion - CO3, CO2

- a. The class will be divided into groups of 8-10 students in for a discussion lasting 10 minutes.
- b. Topics should be topical and non-controversial. After each group finishes its discussion, the teacher will give critical feedback including areas of Improvement. The teacher should act as a moderator / observer only

#### 5. Listening and Reading 5kills – CO2

a. Listening Worksheets to be distributed among students.

Each student will be given specifically designed worksheets that contain blanks / matching / MCQs that are designed to an audio (chosen by the faculty). Students have to listen to the audio (only once) and complete the worksheet as the audio plays. This will help reiterate active listening as well as deriving information (listening to information between the lines).

Reading Comprehension Worksheets to be distributed/displayed to students. Teacher will choose reading passages from non-technical domains, design worksheets with questions for students to answer. This will enhance student's reading skills by learning how to skim and scan for information.

#### 6. Writing Skills (Choose any 2) -- CO2

a. Letter / Email Writing

After explaining to the tugers the highlights of effective writing, students can be asked to write (using digital platforms / paper based) letter to an organization with the following subject matter,

- I. Requesting operant unity to plesent his/her product.
- Complaining abbits faulty product / service.

- iii. Apologising on behalf of one's team for the error that occurred.
- he. Providing explanation for a false accumulation by a client.

#### b. Report Writing

After describing various formats to write report and explaining how to write a report, each student should be asked to write a report (digital/ paper-based) on any of the following topics,

- ii. Project participated in.
- IR. Business / Research Proposal.

#### c. Returne Writing

The teacher should conduct a brief session outlining the importance of a CV / Resume and students can write / type out their ewn resumes

- Share various professional formats.
- ii. Focus on highlighting institidual strengths.
- III. Develop personalized professional goals / statement at the beginning of the resume.

## 7. Team Building Activities - CO3, CO4

The class will be divided into groups of 4-5 students in each group and an activity will be given to each group.

The activities chosen for each seam should be competitive and should involve every student in the beam. The activities may be conducted indoors or outdoors depending on infrastructure. While selecting the team, ensure that each team has a mix of students who have varied skills. The teacher should give critical feedback including areas of improvement at the end of the activity.

#### E. Expert Lecture - CO4

Highlighting the need to manage stress and time, experts from the fields of health and fitness. counselling, training, medical or corporate HR may be invited to deliver a participatory session that focus on helping students to cope with parental, social, peer and career pressures.

## 9. Lateral and Creative Thinking - CD1, CO4

Every student needs to step out of the linear thinking and develop lateral and creative thinking. Teacher can develop creative activities in the classroom / lab that will help students enhance their creative thinking. Some of the suggested activities,

- I. Each group (3-4 students) can be given random unrelated items and they will be given sufficient time to come up with creative ideas on how the objects can be used for activities / purposes other than its intended one.
- it. Each student is given a random line and he/she has to spin a fictional story and tell it to the class (3 minutes). Each story should have a beginning, middle and end.
- BL. Each group (3-4 students) can be given a fictional / hypothetical dangerous situation and they have to find a solution to that problem. They can present it to the other teams who will then get the opportunity to pick flaves in the ideas.

#### 10. Mack Interviews -- CO2, CO3

Student has to undergo interview session and the teacher should seek the assistance of another faculty member / TPO Officer/ Alumni to act as interview panel. Students will be informed beforehand about the job profile that they are appearing the interview for and they have to come prepared with a printed copy of their assume, formally dressed. Carestions will include technical an well as HR. Interviewer can choose to give problems to solve using technical skills. Students will be graded on the basis of their tochrical knowledge, ability to answer questions well, presentation of self, body language and verbil skills.

an for Second Year of Information Technology (2019 Course), Savitribui Phule Pune University

## 11. Presentation Skills - CO2, CO3

Every student will have to choose a topic of his/her choice and make a 5-minute presentation using autio-video aids / PPT. The topic can either be technical or non-technical. Focus and evaluation of each presentation should be the depth of knowledge about the topic, originality of perspective on the topic, well-researched by not, verbal and non-verbal skills and ability to answer questions effectively. Plagianam should be discredit and students should be instructed about it.

12. Corporate and Business Etiquette -- CO4, CO1

The teacher can design an interactive session that allows students to be involved a understageing the requirements of a corporate environment. This can be done using innovative only coefficient in the classicogn and the teacher explaining the concept / relevance of that particular posts in the professional context. What matively, the posts of professional environments to never all interactive sensions with disdents about various patients of professional etiquette.

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