

Sinhgad Technical Education Society's

Sinhgad Academy of Engineering, Kondhwa(Bk)Pune-411048

Sint	read Institutes		Depa	artment of Civil Engir	neering	
	igua mattutes	B. E	. Projec	t Summary A.Y-2020-21	I,Semester II	
Gr. No	0. Name of students	Roll No.	Div	Guide Name	Title of Project	Sign
	Ritesh Kamble	64	A			
1	Pratik Pawar	35	В	Mar Osuri O Datil	Turnel Form Contine Mathed	100
	Ankita Kamble	63	A	WIRS.GOURI S.Patil	Tunnel Form Casting Method	OP
	Nivrutti Vikasrao Datkar	27	A	1		
	Rishikesh Joshi	57	A	1		Drel
2	Aditya Arun Rokade	47	В		E ser la ser ser la	201
2	Aakif shaikh	55	В	Mr.Dinesh Gawatre	E waste use as construction material	
	Swapnil Ware	65	В	1		
					•	
	Ekshinge Reshma S	36	Α			-
3	Deshmukh Alisha A	30	Α		sustainability assessment model on night-	
0	Kisve Shraddha P	78	Α	wirs.s. v. Dewalkar	soil biogas plant	The
	Tamboli Alisha J	66	В			
	Uday Hemantrao Pawar	70	В			0 10
4	Pritesh Gorakhnath Ogale	23	В	Mr. D. W/ Counstra	Debek Westing of Object	(Del)
7	Omkar Chandrakant Borude	24	Α	MI.D.W.Gawalre	Renabilitation of Structures	19
	Zargar A.Sayeed A.Samad	79	В			
	Kaustubh Anil jain	70	A			
5	Pratiksha Sanjay Shende	57	В	Mr Shivamurti B K	Potential Retrofitting of existing campus	m
~ h	Nandini Gurudas Urkude	19	В		building to green building	4
t,	Pooja Kiran kadam	59	Δ		-	

Pooja Kiran kadam 59 Α Anuj P Mohite 12 В Tanmay S Nalawade 17 В Comparative cost estimation of structural N 6 Mr. A.G. Kale Pratik S Burande 40 В Building Sanket S Sethiya 58 Β.

	Nitin Chauhan	22	B			
7	Tushar Rajesh Arya	7	A	Mrs MS Joshi	Design and Analysis of Hydraulic Ram	mA
	Rahul Haribhau Kokane	79	A		Pump	ten,
	Akshay Sudhakar Tarate	67	В			
7 Nitir Tus Rah Aksi 0 0 8 Adit Vara Adit Sarr 9 Khu Khu Kora Rajp 10 Barc Barc Khu Kora Rajp 9 Shat Lalit Dhar 10 Shat Lalit Dhar 10 Shat Lalit Dhar 10 Shat Shat Lalit Dhar 10 Shat Shat Lalit Dhar 11 Shub Ashu Pravi Neha 12 Swarc Suraj Rupet						
	Digvijay Shivajirao Patil	33	B			0
8	Varad Hanumant Tilekar	69	В		Accident precrash scenario analysis of two	2
	Aditya Boje	2	A		wheeler accident in india	- /
	Samarth Chaugule	26	A			
	Barde Shiva	12	A			
9	Khursade Amey	76	A	Mr A G Kale	To study effects of energy harvesting	3
	Korade Madhuri	2	B		equipments on concrete and biumen roads	0,
	Rajput Suvarna	41	В			
L						
	Shabbir Fakhruddin Bhimpurwa	19	A			
10	Lalit Ramdas Deore	29	A		Feasibility of staged on-site wastewater	LAN.
10	Dhananjay Harihar Khandalikar	72	A	WIS. S. V. Dewalkar	structural and dynamic assessment	1/
	Jadhav Surajkumar Balaji	52	A			
	Shubham Rajaram wagh	74	В			
11	Ashutosh Arun Thokare	68	В	Mr S R Chaure	Smoo free Tower	ini
11	Pravin Tanaji Dhobale	33	A			18/1
	Neha Vishnu Narayanpure	20	В			^v
	Ritesh Y Mudiraj	46	В			A
10	Swaroop S Suryavanshi	64	В	Mr. Shivmurti B.K	Treatment Of Wastewater Using Huggisth	XX
12	Suraj R Uprikar	71	В		Treatment of wastewater Using Hyacinth	17
	Rupesh Mahale	7	В			u
	Pethkar Deepak Ramkishan	36	В			
10	Mukkawar Suresh Sujit	14	В	Mr S R Chaure	Analysis of Temphu Project	1,15-
13	Nakil Prasad Kishor	16	В	WILL OF IN. CHAULE		M
	Hanchate Pavan Vijaykumar	43	A			/

	1	14	Samarth Subhash kamb	le	66		A			Completion or legal occurrents in the new	- 1
		14	Hitesh Eknath Rathod		48		A	MIRS. M. S. JOS	ini	of civil Engineering and its various	m
			Omkar Ravindra Jadhav		50		A	1		interdisciplinary approach	-
			Ingale Ajit Jaypal		49	I A	Ą		1		
		16	Nagurdekar Nikhil Mahad	ev	15	E	3		1	A Study of snow melting technique by	le: Hur
		15	Bodkhe Priyanka Sanjay		23	A	1	Mrs. S. P. Kittu	ire e	electric heating in pavements	1.90
			Hiray Shivamraje Ratnaka	ar	46	A	1	1		5	
			Bharatratna Babasaheb S	onale	63	B					
		- t	Shubham Sadashiy Kamu	ni	67		-				
	10	⁵ h	Palash Balasaheb Chavan		26	B	-	Mrs. S.Dewalkar 🛛	200191	Air Pollution Measuring Device	Sa
		15	Shrinivas Shivkumar Hirem	ath	47	A					
		-				1 /					1
			Pishikesh Rajesh Raitwar		25						
		Η	ushar Subhash Pimpalshe	anda	38		-			sion of G+6 building using autocad and	501
	17	h.	ikhil Dilip Paspununwar		28		-	Mrs. S. R. Khot	rev	it	Kul
	1	- H			20	1 0	-		100	in the second se	
	<u> </u>					1					
		-	hit Madhukas Chalan		40		-				
		K	dikayan Bhasat Cunial		40	A	-		To	Study advanced project planning	ale
	18	De	Revari Briarat Gunjar	_	42		-	Mrs. P. B. Bhosale	Isch	eduling	Y.Bros
		En la	niit Chandrakant katkar	+	60		-		Joch	eddinig	1
ŀ					03 1		1				
F					15 1		-				
		Shi	aji Kailashnath Hemke		45	<u>A</u>	-		10	insting of DIM is Duilding water supply	A 1
	19	Sha	ilesh Dhondiba Helave		44	A		Mr. Shivmurti B K	App	drainage design	SA/
		Ajay	Babasaheb Kirtane		20	A	1		and	drainage design	\mathcal{U}
		Adil	Shabbir Pathan	+	29	В					
		Suler	man Shabbir sayyad		54	В				-	Ju
	20	Nana	ware Hritik Ravindra		18	В	1/	rs Ms S T Pawar	C	ituay on high sheep Railway tuppe	1000
	20	Sumi	Balasaheo Kale	6	62	A				Lady of my beecs (at may to be	h.Y/.
		Shubl	nam harishchandra Wagh	7	75	В					
		Omka	r Dattatray Belhekar	1	5	A			Com	parative study of Geo Synthetic used	and
	1	Saurat	oh Sanjay Jadhav	5	1	A		Ire S. P. Kitture	land	nused road pavement to provide ap	Kittm.
1	21 E	Gaura	/ Rajaram Jagtap	5	5	A	IV	is. J.F. Killure	anu u	micel and sustainable solution	

		-				1 1
	Nikhil Popat Meher	11	B			
	Amrapali Jitendra Londhe	4	A		Applying and poloction of waste water	
	Pradnya Vilas Pawar	34	В		Analysis and selection of waste water	lon/
22	Mayuri Krushnakant Satpute	52	В	Mrs. S. V. Dewaikar	(reament on basis of matiple attribute	1
	Rutuja Kashinath Satpute	49	В	1	decision making	1
	++					
			L			
	Aditya Navanath Bhosale	20	A			Both
23	Hritik Suresh Behare	14	A	Mr . D W Gawtre	Investigation of Self cleaning concrete	6-
	Jeevan Chandrakant Kadale	58	A			
	Sagar Baban Kale	61	A			
	Vishwanath Appaso Kudache	3	В			0 48
24	Hrishikesh Surendra Magar	6	В	Mr.D. W. Goutro	Study on static and dynamic analysis of	(201)
24	Avinash Bapurao Khose	74	A		multistoried building in seismic zone	
	Anant Tukaram Patil	31	B			
						~
	Sankalp Satish Edake	35	A			4
05	Kiran Vitthal Birajdar	22	A	Ma Chivemuti D K	Analyze, optimize, improve Bid evaluation	
25	Harshvardhan Tatyaba Mandag	9	В		method and bidding strategy	
	Ranajit Kalidas Autade	10	A			U
	Neha Namdeo Rawool	45	В			
	Vishakha yuvraj parihar	27	В		Case study and analysis of reduction in	mat
26	Anushka Ishwar sagar	50	В		evaporation rate	-
	Monika Sunil Jagtap	56	A	1		
	Anuia Mahesh Jaotao	54	A		-	
	Poonam Popat Lokhande	4	В	1	Techno economical feasibility of modern	Sil
27	Shravani Machhindra Abnave	1	A	- Mrs Jaya Patil	GFRG(Glass Fibre Reinforced Gyosum)	(Sar
	Vardhan Chandrashekhar Bend	17	B	_	panels	1
				1	1	
	Vishal Mangesh Varma	72	В			12
	Abhishek Satish Rananaware	42	В			6
28	Shoaid Yaseen Shaikh	60	В	Wir. S.M. Barelikar	Application of remote sensing and GIS in	AST
	Devesh Satish Patil	32	В	1		1
						1

	Avinash Digamber Erande	37	A			
20	Ayush Mohan Dudhabaware	34	A		Life cycle cost assement model for	a
29	Piyush Keshao Dhanorkar	32	A	VIF. S. V. Dewaikar	selection and analysis of waste water	91
	Abhishek Bedjurge	13	A		treatment system	//
	Sourabh Shivaji Rasale	43	В			Dr
30	Nikhil Kisan Atole	9	A	Mr D W Gawatre	Flood Control Management	00
	Deepak Laxman Nimbalkar	21	В	IVII.D.VV.Cawatic		
	Prathamesh Sanjay Gaikwad	38	A			
	Apupra manik Pharanda	27			1	
	Shivani Batnakant Mobite	13		-	Elood management by room for river and	m
31	Aishwarya sunil Deokar	28		Mr. Shivamurti. B. K	sponge city	1 m
	Mansi sureshkumar More	10	В	-	epenge my	Ne
				1		
	Namrata Ashok Anhad	5	A			1
30	Aniket Ankush Gavand	39	A	Mrs. S.V. Dowalkar	Development of soft computing model for	Am
52	Amit Prakash Ishware	3	A		design and analysis of wastewater	11/
	Mahesh Subhash Auti	11	A		treatment systems	1
		54		1	Digital Twinning And Comparison among	
	Akshay Ramesh Sathe	51	В	4	different Financial Models like	i.
33	Aditi Mahesh Shinde	56	В	Mr. S. R. Chaure	DBFO, DBOT, BOT, BOOT, BOO	H
	Sneha Tejram Bhotmange	58	В		,BLT,DCMF	11
	Rishikesh J Chaudhari	7	A			
		_				
	Sandip Khandu Madane	5	В			
34	Vishal Ashok Rupnawar	48	В	Mrs. S.T.Pawar	The Study of Resourse Productivity in Road	1,0
	Saurabh Dasharath Gaikwad	53	В		Construction Project	A.S.
	Saiprasad Kailas Pagar	24	В			" /
	Sharty D.M. Ja	50				
		56	В		Strength and durability analysis of concrete	
35	Varun Kumar	73	В	Mrs. Jaya Patil	by partial replacement of cement with	QX
	Yashraj Prakash	78	В		marble dust and alcoofine	5%
	Ashwini omprakash jadhav	8	A			

	х. Х.	•				
	Afroz Bepari	18	A) ale
36	Shubham Pinate	39	В	Mrs. Booia Bhosale	Making flooring tiles from waste material	Righes
00	Cheeranjit Ghosh	41	A	WIS. FOOJA DHOSAIC	Making in a s	1
	Kishor Mandal	8	В			
	Nilesh Budhaji Bendhari	16	A			D
37	Katake Nilesh	68	A	Mr. H. M. Sulepatil	Phytorid Technology	B
07	Kondalkar Abhishek Shivaji	1	В			7
	Uday Devdas Khandagle	71	A			2
					1	
	Suraj Subhash Kakade	60	A			
38	Shubham Sanjaykumar Bhosal	21	A	Mr. A. M.Admuthe	To Study strength and characterstics of	AJA
50	Aditya Mahadev Yadav	77	В		Dacteria based sen healing concrete	P
	Shubham Sharma	61	В			
	Dhakane Shubham Devidas	31	A			
30	Khomane Goverdhan	73	A	Mr. S.M. Barelikar	Assesment and Evaluation of of Griha	Tar
55	Wangade Krishna vikram	76	В		Rating system for existing school building	A
	Jadhav Viraj Vijay	53	A			
	Ankush Dimathia	6	A	1		
40	Rathi Vinay Shivprasad	44	В			
40	Pathan Ahemadkhan Hamidkha	30	В]		
					(

Gouri Patil Project Coordinator Prof.R. B. Bajare HOD Civil

SAVITRIBAI PHULE PUNE UNIVERSITY Board of Studies in Civil Engineering Structure for B.E. Civil 2015 Course (w. e. f. June 2018)

					Sen	nester-I					
Subject code	Subject	Teac E	hing S Irs/We	cheme eek	In-Semester Assessment	TW	Pract /Or	End- Semester	Total	Cr	edit
		Lect	Tu	Pr				Exam		Th	Lab
401 001	Environmental Engineering II	3		2	30		50	70	150	3	1
401002	Transportation Engineering	3		2	30	50		70	150	3	1
401 003	Structural Design and Drawing III	4		2	30		50	70	150	4	1
401 004	Elective I	3		2	30	50		70	150	3	1
401 005	Elective II	3			30			70	100	3	
401 006	Project (Phase-I)		2			50	-		50		2
	Total :	16	2	8	150	150	100	350	750	16	6
										22 C	redits

					Sem	ester-II					
Subject code	Subject	Teac H	hing S [rs/We	cheme eek	In-Semester Assessment	TW	Or	End- Semester	Total	Cro	edit
		Lect	Tu	Pr				Exam		Th	Pr
401 007	Dams and Hydraulic Structures	3		2	30		50	70	150	3	1
401008	Quantity Surveying, Contracts and tenders	3		2	30		50	70	150	3	1
401 009	Elective III	3		2	30	50		70	150	3	1
401 010	Elective IV	3		2	30	50		70	150	3	1
401 006	Project		6			50	100		150		6
	Total :	12	6	8	120	150	200	280	750	12	10
										22 Ci	redits

401006 Project Phase-I

Teaching Scheme: Tutorial: 2 Hrs/week

Examination Scheme: TW: 50 Marks.

Project phase I Term Work will be evaluated for an individual student based on the seminar presented on the work done in first semester and submission of the report. If the student fails to present the seminar and submit the report, he / she will be marked absent in project examination. The project work phase I shall be consist of any one of the following nature in Civil Engineering related subjects.

- 1. Experimental investigation.
- 2. Software development.
- 3. Benefits cost economic analysis.
- 4. Case study with own design.
- 5. Working model design and fabrication.
- 6. Case study with development of methodology using soft computing tools.

It is mandatory to present a seminar in presence of Internal and External Examiners and submit preliminary project report based on work done in first semester. The report shall contain finalization of topic, literature survey, planning schedule/ flow chart for completion of project. The report shall be typed or printed and hard/spiral bound. The project work to be taken up individually or in groups. The group shall not be of more than 4 students. References shall be mentioned at the end as per universal standards as mentioned in any international journal of professional body.

Format of project report: Sequence of pages:

i) Front Cover Page	ii) Certificate	iii) Acknowledgement	iv)	Synop	sis
v) Contents	vi) Notations	vii) List of Tables	viii)	List	of
Figures	ix) List of Graphs.				

Chapter 1 Introduction (This consists of: 1.1 Introduction of the Project Work; 1.2 Problem Statement, 1.3 Objectives and 1.4 Scope of the Project Works, 1.5 Research Methodology, 1.6 Limitations of study, 1.7 Expected outcome.

Chapter 2 Literature Review from minimum 10 articles (It shall include theoretical support, details regarding work done by various persons, methods established, any new approach. It should preferably highlight the development in the field of research chronologically as reflected from books, journals etc.).

Chapter 3 Planning Schedule/ Flow Chart For Completion of Project References and Bibliography (The references and bibliography shall include name of author/code/manual/book, title of paper/code/manual/book, name of the journal, month & year of publication, volume number/ISBN number, page number x-y. The references and bibliography shall be as per universal standards as mentioned in any international journal of professional body).

Report Printing details:

- Report shall be typed on A4 size Executive Bond paper with single spacing preferably on Both sides of paper.
- Margins: Left Margin: 37.5 mm, Right Margin: 25 mm, Top Margin: 25 mm, Bottom Margin: 25 mm.
- 3. Give page number at bottom margin at center.
- 4. Size of Letters: Chapter Number: 16 font size, Times New Roman in Capital Bold Letters, Chapter Name: 12 Font size in Capital Bold Letters, Main Titles (1.1, 2.5 etc): 16 Font size in Bold Letters Sentence case, Sub Titles (1.1.5, 4.5.1 etc): 14 Font size in Bold Letters- Sentence case. All other matter: 12 Font size sentence case.
- 5. No blank sheet be left in the report.
- 6. Figure name: 12 Font size in sentence case Bold- Below the figure.
- 7. Table title -12 font size in sentence case- Bold-Above the table.

401006 **Project work**

Teaching Scheme: Tutorial: 6 Hrs/week Examination Scheme: TW : 50 Marks. Oral : 100 Marks.

Project Work will be evaluated for an individual student based on the presentation of the work done in a year(I Sem + II Sem) and submission of the report .The student may work in a group during project work, if any.

The project work shall consist of any one of the following nature in Civil Engineering related subjects.

- 1. Experimental investigation.
- 2. Software development.
- 3. Benefit : Cost economic analysis.
- 4. Case study with own design.
- 5. Working model design and fabrication.
- 6. Case study with development of methodology using soft computing tools.

The details of report writing and preparation of report will be similar to that of as mentioned in syllabus of Project Phase I in first semester.

Evaluation of Project work in final exam. Will be done by the pair of internal guide having minimum 3 years approved experience as teacher and external guide.

It is recommended to promote the students to present a paper based on project work in appropriate conference / journal.

			BE Computer Project Details: 2020	-21			
Group No.	Guide	Project Title	Project Domain	Roll No	Full Name	Mail-Id	Contact
				COBA001	Abhijeet Shrishail Khyale	abhijeetkhyale14@gmail.com	8237822791
1	Prof P P Cito	SMART HELMET With Advanced Features	Internet of Things	COBA021	Suraj Maruti Chavan	chavansuraj4442@gmail.com	9096484442
-	FIOL B.B. Gite	SWART HELMET WITH Advanced readiles	internet of things	COBA027	Mayur Sanjay Deshmukh	mayursanjaydeshmukh@gmail.com	8793683693
				COBC063	Shivani Sanjay Waghchoure	shivzo2608@gmail.com	7888205752
				COBA067	Revati Uttamrao Naik	revatinaik408@gmail.com	7768020792
2	Prof. B.B. Gite	Smart Electronic Voting System	Blockchain and security	COBA105	Sonali Sharad sonawane	sonawane.sonali9@gmail.com	9403732501
_			,	COBA041	Mayuri Premanand Indis	indismayuri@gmail.com	7798976771
				COBC009	Priyankesh Sanjay Badgujar	priyankeshbadgujar212@gmail.com	9325538945
3	Prof. B.B. Gite	Covid-19 ruture forecasting using supervised machine learning	Soft Computing, Artificial Intelligence & Machine Learning	COBC016	Priya Pandurang Chitale	priyachitale1999@gmail.com	/385455648
		models.		COBC018	Aditya Avinash Dingare	adityadingare19@gmail.com	9545312573
				COBC059	Tejashri Sanjay Suryawanshi	tejusuryawanshi777@gmail.com	7066127785
				COBA039	Umkar Balasarieb Gore	omgore1069@gmail.com	9850945365
4	Prof. L.J.Sankpal	eFIR App and Web Portal	Android Application and Web App Framework	COBC033	Pogesn Ramdas Satpute	yogesnsatpute/2@gmail.com	8/93/205/3
				COBA109	Mansi Dovosh Tappa	tannamanasi@gmail.com	0505009012
				COBCO21	Vivek Sushantrao Lakado	lakadovivok5@gmail.com	0225701192
				COBC013		mustafabookwala53@gmail.com	8208990452
5	Prof. L.J.Sankpal	Digital Solution for Enforcing Social Distancing	Soft Computing, Artificial Intelligence & Machine Learning	COBC012	BARTAKKE ADITVA BAJESH	aditya7 ab@gmail.com	7350775999
				0000012	BARTAIRE ADITIA ROLEST	adityar.ab@gmail.com	1550115555
				COBA081	Prathamesh Mahadey Avhad	lostprathamesh0@gmail.com	9834258101
				COBA031	Tushar Dilip Ekatpure	tusharekatpure11@gmail.com	9284405705
6	Dr. S.P.Godse	Automated Examination System	Machine Learning	COBA032	Rohan Raiendra Garad	rohan04garad@gmail.com	9527699831
				COBC021	Girish Kumar Singh	gks8055@gmail.com	7715041050
_				COBC047	Sushil Krishna Patil	patilsushil306@gmail.com	9168888391
	Dr. S.P.Godse	Customer segmentation system	Data mining and information retrieval				
				COBA054	Apeksha Balasaheb Laad	apekshalaad123@gmail.com	9028511697
•	Dr. S.B.Godeo	Real time corona cases tracking display using IOT	Internet of Things	COBA023	Apeksha Balasaheb Laad	damodharneha@gmail.com	7378476412
•	DI. S.P.GOUSE	Real time colona cases tracking display using for	Internet of Things	COBA121	Punam Sunil Pote	punampote02@gmail.com	7057660364
				COBA120	Prajakta Nagesh Gaikwad	prajakta.n.gaikwad@gmail.com	7261955192
				COBA057	Shruti Satish Mahashikare	shrutimahashikare@gmail.com	8975268002
9	Prof M E Sanan	Traffic Signal Management System using Machine Learning	Soft Computing Artificial Intelligence & Machine Learning	COBA009	Vishal Dilip Bandgar	vishalbandgar0@gmail.com	8484867740
5	rion in Li Sanap	frame signal management system asing maenine zearning	sore comparing, a check meening ence a machine zearning	COBA008	Sana Asif Bagwan	sanabagwan7286@gmail.com	7040024274
				COBA035	Abhishek Baban Gaware	abhishekgaware17@gmail.com	7066344099
				COBC046	Pralay Rajkumar Patil	pralaypatil28@gmail.com	7588786710
10	Prof. M. E. Sanap	Government fund distribution and tracking system using	Blockchain & Security	COBA046	Shivani Anant Kadam	shivkdm28@gmail.com	9284382167
		blockchain technology		COBC061	Vaishnavi Ajit Kad	kadvaishnavi22@gmail.com	9284027923
				COBA086	Saini Mridul Mahavir Prasad	mridulmali7@gmail.com	9530086725
		A computer paying tion apprucing augmented reality and		COBC 072	Sumer Jeevan Bhatkar	sumerbhatkar@gmail.com	7507204202
11	Prof. M. E. Sanap	A campus navigation aap using augmented reality and	Augmented Reality and Machine learning.	COBC 066	Amaan Javed	amaan10javed@gmail.com	8713923031
		machine learning.		COBC030	visnwajeet kumar	visnwajeet/91@gmail.com	8530485997
				COB 4014	Phankar Projekta Tukaram	nrajaktahbankar07@gmail.com	0502527592
		Text categorization for e-recruitment based on semantic		COBA014	Nikita Milind Phulkar	nikita nhulkar@gmail.com	9503337382
12	Dr. H.A. Bhute	analysis	Soft Computing, Artificial Intelligence & Machine Learning	COBA080	Shaikh Pazkoon Irfan	shaikhrazkoon12@gmail.com	7279645427
		allalysis		COBA091	Shaikh Sana Kauser Irshad	shaikhsana1699@gmail.com	8/1202/686
				COBA060	Vrushali Lalaso Mane	vrusbalimane72000@gmail.com	9970698894
				COBA114	Vaibhavi Sunil Vanarase	vanarasevaibhavi@gmail.com	7040817335
13	Dr. H.A. Bhute	Agriculture Analysis using Machine learning Techniques	Soft Computing, Artificial Intelligence & Machine Learning	COBA110	Ankita Balasaheb Tate	anktate@gmail.com	9011289044
				COBA103	Simran Dhar	simrandhar190@gmail.com	8087888174
				COBA043	JUBED AHMED	jubedpatrick49@gmail.com	8208739712
1	De la de la	User Authentication and monitoring using face recognition	Orbert	COBA065	MUSKAN KUMARI	mishramuskan123@gmail.com	9545510490
14	Dr. H.A. Bhute	Algorithm	Cyber security	COBA082	RASHATWAR SHIVANI PRAFUL	shivanirashatwar26@gmail.com	9922965523
				COBA072	Neeraj Nitin Oswal	nirajoswal360@gmail.com	7276630580
10	Prof M K Nivonguno	Email spam filteration using machine learning	Soft Computing Artificial Intelligence & Machine Learning	COBA075	Taher Huned Patanwala	taherhp123@gmail.com	8275660523
15	FIOL WIN. NIValiguite	Email spann interation using machine learning	Soft computing, Artificial Intelligence & Machine Learning	COBA118	Yogesh Sharma	yogesh.cse4@gmail.com	9829724232
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16	Prof M K Nivanguno	Human Computer Interface for Physically Impaired using	Soft Computing Artificial Intelligence & Machine Learning	COBA013	AAYUSH LALITKUMAR BHANSALI	aayushbhansali692@gmail.com	7507426408
10		Computer Vision	sont comparing, Arandar menigence & machine redfilling	COBA106	Aditi Srivastava	aditis1999@gmail.com	8446094317
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18	Prof. S.V. Wankhade	Lung Cancer Using Deep Learning	Soft Computing, Artificial Intelligence & Machine Learning	COBA011	Rutuja Sanjay Bhalerao	bhaleraorutuja2000@gmail.com	8855090232
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		Recognition of Handwritten Digit using Convolutional Neural		COBA083	RAUT YUGESH GAJANAN	vugeshraut.sae@gmail.com	9834665231
19	Prof. S.V. Wankhade	Network in Python with Tensorflow and Comparison of	Image processing/Video processing / Signal processing	COBA099	SHUBHAM SHRIVASTAVA	shubhamshrivastava6515@gmail.com	9752966664
		Performance for Various Hidden Layers					
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20	Prof. S.V. Wankhade	Bone Fracture Detection System using CNN Algorithm	Image processing/Video processing / Signal processing	COBC017	Control Aine Minhor	rchordiya111@gmail.com	9921124028
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21	Prof. S.S. Vaniire	Machine Learning Approach to Detect Phishing URLs	Cyber security	COBA102	Hrushikesh silam	silamhrushikesh76@gmail.com	7558621448
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		Machine learning approach for whatsapp application threat		COBA033	Garudkar Ashutosh Bapu	garudkarash@gmail.com	9011310111
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23	Prof. S.S. Vanjire	Andreid Applications Deced on Consistion Aple	Android and security	COBA013	Adition Dependent	bhandgoei2000@gmail.com	0700433724
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24	Prof B B Gite	Sound Approach for Al Generated Video Highlights	Soft Computing Artificial Intelligence & Machine Learning	COBA107	Suhas Anil Surse	suhassurse8421@gmail.com	7999926335
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25	Prot. P.D.Nanaware	Prevention and detection of SQL Injection attacks	Cyber security	COBC069	Rahul Ramesh Deore	rahuldeore068@gmail.com	9518367702
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		Personalized Medicine: Redefining Cancer Treatment - Predict		COBC057		rutusukodo 12@gmail.com	0924219222
26	Prof. K.U.Jadhav	the effect of Countin Verice to anothe Demonstrated Medicine	Soft Computing, Artificial Intelligence & Machine Learning	COBC037	SUREDE RUTUJA SHAILEINDRASINGH	rutusukeue.15@gmail.com	9654516522
		the effect of Genetic variants to enable Personalized Medicine		COBC035	MAYANK PRASAD	mayankpp8824@gmail.com	9/12103486
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27	Prof. A.S.Shinde	Artificial Intelligent System for Automatic Depression Level	Soft Computing, Artificial Intelligence & Machine Learning	COBA007	BAGGA KIRANJYOT KAUR	kiranjyotbagga98@gmail.com	8793093427
		Analysis Through Visual and Vocal Expressions		COBA019	BULBULE ANJALI MEGHNATH	bulbuleanjali28@gmail.com	7276262044
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20	Deef A MA Marrie	Online Public Shaming on Social Media: Detection, Analysis	Coff Commuting Antificial Intelligence & Marchine Learning	COBA018	BOGAM ANJALI SHRIKANT	anjalibogam77@gmail.com	9766903501
28	Prof. A.IVI. Iviagar	and Mitigation	sort computing, Artificial Intelligence & Machine Learning	COBA124	THORAT PRANJALI DILIP	pranjalithorat1901@gmail.com	9637430610
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		Learning		COBCORE	ami uta bilimi ao laugaolikai	iadhaupriuanka105@gmail.com	9905466903
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		Dates and Fall in Ditesta Data Analysis and Future Data		COBC039	Gausiya Latif Momin	gausiyamomin16@gmail.com	/020184899
30	Prof. A.M. Magar	Raise and Fail in Bitcoin Rate Analysis and Future Rate	Soft Computing, Artificial Intelligence & Machine Learning	COBC036	Vaishnavi Nandkumar Mirajkar	vaishnavimirajkar111@gmail.com	9373729734
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31	Prof A S Shinde	Image Caption Generation Using Deep Learning	Soft Computing Artificial Intelligence & Machine Learning	COBA042	Prajwal Gorakh Jadhav	prajwaljadhav430@gmail.com	8459272654
51	TTOT. A.S.Similae	image caption deneration using beep tearning	Sont computing, Antineiar intelligence & Machine Learning	COBA061	Aditya Mankar	adityamankar09@gmail.com	8412850736
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				COBC064	Vanshaj Wai	vanshajwai@gmail.com	7020084947
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32	Prot. A.P. Kamdasi	numan Activity Recognition	Son computing, Antificial Intelligence & Machine Learning	COBC049	Pragati Prabhakar Barule	pragatibarule22@gmail.com	9970031191
1				COBC060	Pooja Subhash Vahadane	vahadanepooja25@gmail.com	7057526364
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34	Prof. S.N.Shelke	Phrase Composing Tool Using Natural Language Processing	Soft Computing, Artificial Intelligence & Machine Learning	COBC007	Atharva Gandhe	atnarvag1910@gmail.com	8827092408
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25	Drof S N Shalka	Development of LoRaWAN based Manhole Cover Monitoring	ICT.	COBCO15	Priyanka Bharat Chaudhari	c.piyu@outlook.com	9561365201
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1		Undersid American Free Descent (1997) 199		COBA051	swarupa kuikarni	swarupaujanikar@gmail.com	8329408831
37	Prof. M.A.R.Shabad	Hybrid Approach For Detecting Automated Spammers In	Soft Computing, Artificial Intelligence & Machine Learning	COBA059	Pratiksna mane	pratiksnamane53505@gmail.com	9730644873
1 7		Twitter		COBA093	Seemab shaikh	seemabshaikhzm10@gmail.com	9067376901
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38	Prof. K.S.Avhad	Sequence Mining and Prediction based Healthcare Fraud	Soft Computing, Artificial Intelligence & Machine Learning	COBA052	Dattatrya Ramesh Kumbhar	dattatrya10june@gmail.com	8483800309
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39	Prof. K.S.Avhad	Respiratory diseases detection using machine learning	Soft Computing, Artificial Intelligence & Machine Learning	COBA097	Nayan Santosh Shitole	nayanshitole1998@gmail.com	9503244377
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41	Prof. P. D. Nanawaro	Music generation using Long Short Term Memory(LSTM)	Soft Computing Artificial Intelligence & Machine Learning	COBC008	Atul Raj	atulharsh278@gmail.com	8825328356
41	PIUL P.D.Nallaware	model	Soft computing, Artificial Intelligence & Machine Learning	COBC055	Shivam Agrahari	shivam8858748419@gmail.com	8858748419
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		Tourism Mobile App With Aspect Based Sentiment		COBA113	Samiksha Sunil Vanarase	samikshavanarase5555@gmail.com	7020149972
42	Prof. K.U.Jadhav	Classification Framework For Tourist Review.	Soft Computing, Artificial Intelligence & Machine Learning	COBC051	Bahul Kumar	krahuls092@gmail.com	9767459602
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43	Prof. S.N.Shelke	3D object detection for autonomous vehicles	Soft Computing, Artificial Intelligence & Machine Learning	COBA078	Chivam Curandra Chata	shivamshata20@gmail.com	7207070960
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44	Prof. S.N.Shelke	Drunk driving detection using driving patterns and facial	Soft Computing, Artificial Intelligence & Machine Learning	COBA070	Neethu Rajan	neethurajan24299@gmail.com	9762277106
		recognition		COBA077	Vishal Gajanan Patil	vishalgpatil54@gmail.com	9601714297
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45	Prof S N Shelke	Real time stock price prediction	Soft Computing Artificial Intelligence & Machine Learning	COBA115	Sushmit Raghuvir Vawal	sushmitvawal1999@gmail.com	7387057055
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46	Prof. S.N.Sheike	Nutricure: A Disease Based Food Recommender System	sort computing, Artificial Intelligence & Machine Learning	COBC032	Shazia Lardkhan	shazialardkhan@gmail.com	8407988511
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47	Prof. Nakul Sharma	Discovery of Ranking Fraud for Mobile Apps	Cyber security	000/10/10	Shaikh Mohamod Vasoon Faiwaz	fridos35@gmail.com	9906133451
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48	Prof. A.P. Ramdasi	Trusted framework for online banking in public cloud using	Blockchain Framework.	COBA090 COBA036 COBA104 COBA056	Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra	pratikghembad@gmail.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com	9393093030 7057173493 9860971845
48	Prof. A.P. Ramdasi	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework.	Blockchain Framework.	COBA090 COBA036 COBA104 COBA056 COBA089	Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam	pratikghembad@gmail.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com	9393093030 7057173493 9860971845 9284137107
48	Prof. A.P. Ramdasi	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework.	Blockchain Framework.	COBA090 COBA036 COBA104 COBA056 COBA089 COBA117	Anakin Montalinev Tasecin Lanyaz Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun	naooooganamaana pratikghembad@gmail.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com	8806123431 9393093030 7057173493 9860971845 9284137107 9423789259
48	Prof. A.P. Ramdasi	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework.	Blockchain Framework.	COBA090 COBA036 COBA104 COBA056 COBA089 COBA117 COBC058	Janaki Mohainev Jasedi Lavyaz Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb	ndosos garantembad@gmail.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com	800123431 933093030 7057173493 9860971845 9284137107 9423789259 7720977839
48	Prof. A.P. Ramdasi Prof. M.A.R.Shabad	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework.	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA104 COBA056 COBA089 COBA117 COBC058 COBC054	Anakin Munihali Manakin Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivaniali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb	ratikghembad@gmail.com salonisonwane1998@gmail.com shvanjalitohande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohnisuryawanshi703@gmail.com shelkediksha2018@gmail.com	9393093030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816
48	Prof. A.P. Ramdasi Prof. M.A.R.Shabad	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA104 COBA056 COBA089 COBA117 COBC058 COBC054 COBA134	Anakin Hondankev Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra	ndosos granika (mail.com salonisonwane 1998 @gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com shelkedikha2018@gmail.com ichhapani4@gmail.com	8800123431 9393093030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426
48	Prof. A.P. Ramdasi Prof. M.A.R.Shabad	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA104 COBA056 COBA089 COBA117 COBC058 COBC054 COBA134	Snaki Molafilev Sach Layyaz Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chapani Joshua Rajendra	ndosos en maine a main	8000123431 9393093030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426
48	Prof. A.P. Ramdasi Prof. M.A.R.Shabad	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA04 COBA089 COBA117 COBC058 COBA134 COBA134 COBA036	Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain	pratikghembad@gmail.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com jchhapani4@gmail.com yash0618@gmail.com	800123431 3933033030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 8308774596
48	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA104 COBA056 COBA056 COBA039 COBA117 COBC058 COBC054 COBC054 COBC026 COBC026	Janaki Mohalmeya Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayvad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal	ratikghembad@gmail.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com shelkedikha2018@gmail.com ichhapani4@gmail.com yash0618@gmail.com ishaagarwal92255@gmail.com	3933093030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 8308774596 9225502386
48 49 50	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service.	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things	COBA090 COBA036 COBA104 COBA056 COBA089 COBA17 COBCO54 COBC054 COBC026 COBC024 COBC024 COBA112	Arakin Muriahevi Saker Lanyyaz Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi	ratikghembad@gmail.com salonisonwane1998@gmail.com shivanjalikohand@gmail.com saniyasayyad01@gmail.com cohinisuryawanshi703@gmail.com shelkediksha2018@gmail.com [chhapani4@gmail.com yash0618@gmail.com ishaagarwal92255@gmail.com utyagi66@gmail.com	80012331 93303030 9860971845 9284137107 9423789259 8806790816 8806790816 88087527426 3087527426 9225502386 72006481679
48 49 50	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service.	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things	C0BA090 C0BA036 C0BA036 C0BA104 C0BA056 C0BA089 C0BA107 C0BC058 C0BC054 C0BC054 C0BC054 C0BC026 C0BC026 C0BC024 C0BC012 C0BC010	Anakin Honlankev Jasedri Faryyaz Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN	ratikghembad@gmail.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com shelkediksha2018@gmail.com ichhapani4@gmail.com yash0618@gmail.com ishaagarwal92255@gmail.com utyagi66@gmail.com	80012331 933093030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 8308774596 9225502386 7906481679
48 49 50	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service.	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things	COBA090 COBA036 COBA036 COBA036 COBA036 COBA036 COBA080 COBA089 COBC058 COBC054 COBC054 COBC026 COBC024 COBC024 COBC024 COBC024 COBC024	Janaki Mohalmeva Bratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayvad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta	https://www.action.com/ salonisonwane1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com shelkedikha2018@gmail.com ichhapani4@gmail.com yash0618@gmail.com ishaagarwal92255@gmail.com utyagi66@gmail.com himanshumehta219@gmail.com	80012331 9330303030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 8308774596 9225502386 7906481679 9552566991
48 49 50 51	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K I Liadbay	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA089 COBA089 COBA081 COBA082 COBA083 COBA084 COBA084 COBA085 COBA084 COBC058 COBC054 COBC024 COBC024 COBC021 COBC020	Anakin Muhaimeta Janakin Muhaimeta Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshir rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak	https://www.accommentationality.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com shivanjalilokhande@gmail.com rohinisuryawanshi/703@gmail.com rohinisuryawanshi/703@gmail.com shelkediksha2018@gmail.com ichhapani4@gmail.com ishaagarwal92255@gmail.com utyagi66@gmail.com himanshumehta219@gmail.com sachinnayak329@gmail.com	80012351 933093030 7057173493 9860971845 9284137107 9423789259 8806790816 88087527426 8308774596 9225502386 9225502386 9352566991 7066661036
48 49 50 51	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning	C0BA090 C0BA036 C0BA036 C0BA036 C0BA059 C0BA117 C0BC054 C0BC054 C0BC026 C0BC024 C0BC024 C0BC024 C0BC022 C0BC010 C0BC022 C0BC011 C0BC019	Anakin Mohalmedi Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Sheike Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Suyog Jitendra Gadiya	https://partikghembad@gmail.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com ichhapani4@gmail.com ichhapani4@gmail.com ishaagarwal92255@gmail.com utyagi66@gmail.com himanshumehta219@gmail.com sachinnayak329@gmail.com	80012331 933093030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 8308774596 9225502386 7906481679 9552566991 7066061036 7038801769
48 49 50 51	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning	C0BA090 COBA036 COBA036 COBA036 COBA056 COBA089 COBA081 COBC58 COBC58 COBC054 COBC054 COBC024 COBC024 COBC022 COBC024 COBC022 COBC021 COBC022 COBC021 COBC022 COBC021	Janaki Mulaihevia Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Suyog Jitendra Gadiya	hratikghembad@gmail.com salonisonwane1998@gmail.com shivanjalikohand@gmail.com saniyasayyad01@gmail.com cohinisuryawanshi703@gmail.com shelkediksha2018@gmail.com chhapani4@gmail.com khaagarwal92255@gmail.com utyagi66@gmail.com himanshumehta219@gmail.com sachinnayak329@gmail.com suyoggadiya223@gmail.com	393093030 393093030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 9225502386 92552566991 7066061036 7038801769 9511611279
48 49 50 51	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA036 COBA050 COBA051 COBC054 COBC054 COBC054 COBC026 COBC0212 COBC0212 COBC0212 COBC02112 COBC0212	Janakin Honlainkevi Janakin Honlainkevi Joratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Sheike Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jajrakash Nayak Suyog Jitendra Gadiya Nipun Aniruddh Bansode CHETTANIYA VERMA	https://www.initer.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com shelkediksha2018@gmail.com ishagarwal92255@gmail.com utyagi66@gmail.com shatagarwal92255@gmail.com himanshumehta219@gmail.com sachinnayak322@gmail.com suyoggadiya223@gmail.com nipunbansode1@gmail.com	80012531 933093030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 8308774596 9225502386 9225502386 9255566991 95552566991 7066061036 7038801769 95511611279 9588292589
48 49 50 51	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based e-	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA089 COBA089 COBA081 COBC026 COBC026 COBC026 COBC026 COBC026 COBC026 COBC027 COBC028 COBC029 COBC021 COBC021 COBC021 COBC021 COBC011 COBC011 COBA122	Janaki Mohalmed Salen Lanyaz Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Suyog Jitendra Gadiya Nipun Aniruddh Bansode CHETTANIYA VERMA	https://partikghembad@gmail.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com shelkediksha2018@gmail.com ichhapani4@gmail.com ishaagarwal92255@gmail.com utyag166@gmail.com himanshumehta219@gmail.com sachinnayak329@gmail.com suyoggadya223@gmail.com nipunbansode1@gmail.com vermachettaniya666@gmail.com	800125331 9330303030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 9225502386 7906481679 9552566991 9552566991 9552566991 9552566991 9552566991 95512601769 95512611279 955256991 95512611279 955256991
48 49 50 51 52	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based e- health systems	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing	C0BA090 C0BA036 C0BA036 C0BA036 C0BA089 C0BA117 C0BC058 C0BC054 C0BC058 C0BC054 C0BC024 C0BC024 C0BC024 C0BC022 C0BC011 C0BC022 C0BC011 C0BC021 C0BC011 C0BC021 C0BC011 C0BA123 C0BA123 C0BA123	Anakin Multialited Schembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Suyog Jitendra Gadiya Nigun Anirudh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan	https://grait.com salonisonwane1998@gmail.com salonisonwane1998@gmail.com shivanjailiokhande@gmail.com rohinisuryawanshi/703@gmail.com shelkediksha2018@gmail.com shelkediksha2018@gmail.com ichhapani4@gmail.com yash0618@gmail.com ishaagarwal92255@gmail.com utyagi6@gmail.com sachinnayak329@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com yermachettaniya6666@gmail.com	asoo12353 333093030 37057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 9252566991 7066061036 7038801769 9555566991 7066061036 7038801769 95516111279 958292589 8551890041
48 49 50 51 52	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based e- health systems	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing	COBA090 COBA036 COBA036 COBA036 COBA036 COBA037 COBA059 COBC054 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC022 COBC010 COBC022 COBC011 COBC022 COBC01	Janaki Muhaiheva Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jajorakash Nayak Suyog Jitendra Gadiya Nipun Aniruddh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan	histosoverninka (2000) salonisonwane 1998@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com jchhapani4@gmail.com jchhapani4@gmail.com ishaagarwa192255@gmail.com utyagi66@gmail.com sachinayak32@gmail.com sauyoggadiya223@gmail.com suyoggadiya223@gmail.com nipunbansode1@gmail.com shubham751raj@gmail.com	80012331 933093030 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 8308774596 9225502386 7906481679 9552566991 7066061036 7038801769 9511611279 958922589 8551890041
48 49 50 51 52	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based e- health systems	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing	COBA090 COBA036 COBA036 COBA036 COBA036 COBA089 COBA081 COBC054 COBC054 COBC054 COBC026 COBC021 COBC022 COBC011 COBC011 COBC012 COBC011 COBA123 COBA132 COBA132	Jinaki Mulaiheva Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Suyog Jitendra Gadiya Nipun Anirudah Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan Bhise Suhas Ishwar	history and a second se	80012533 9330303030 7057173493 9860971845 9284137107 9423789259 7720977839 88067790816 8087527426 9225502386 7006481679 9552566991 7066061036 7005801769 9511611279 9589292589 9551890041 9834351462
48 49 50 51 52	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based e- health systems	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing	COBA090 COBA036 COBA036 COBA036 COBA036 COBA036 COBA036 COBC084 COBC084 COBC084 COBC084 COBC026 COBC026 COBC021 COBC021 COBC021 COBC021 COBC021 COBC021 COBC019 COBC019 COBA123 COBA123 COBA123 COBA127 COBA017	Jinakin Muhaimeta Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jajrakash Nayak Suyog Jitendra Gadiya Nipun Aniruddh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan Bhise Suhas Ishwar Bhise Siav Ashok	histosove niniska kara kara kara kara kara kara kara k	80012331 933093030 7057173493 9860971845 9284137107 9423789259 8806790816 88087527426 8308774596 9225502386 9225502386 92552566991 7066061036 7038801769 95552566991 7066061036 7038801769 95512566991 9555256991 95552566991 9555256691 955525691 955555691 955555691 955555691 955555691 955555691 955555691 955555691 955555691 9555555691 9555555691 95555555555
48 49 50 51 52 53	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite Dr. S.P.Godse	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based ehealth systems Sign Language to Text and Speech Translation	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA036 COBA036 COBA036 COBA036 COBC084 COBC084 COBC084 COBC026 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC021 COBC011 COBC011 COBA122 COBA124 COBA125 COBA126 COBA127 COBA128 COBA120 COBA121 COBA121	Janaki Muhaiheva Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Suyog Jitendra Gadiya Nipun Aniruddh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan Bhise Suhas Ishwar Bhise Suhas Ishwar	httosore grininate and a series of the serie	00012331 033303030303 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8087527426 9225502386 7906481679 9552566991 7066061036 7038801769 95511611279 95851890041 9834351462 8605485161 8605485161
48 49 50 51 52 53	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite Dr. S.P.Godse	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based ehealth systems Sign Language to Text and Speech Translation	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing Soft Computing, Artificial Intelligence & Machine Learning	C0BA090 C0BA036 C0BA036 C0BA036 C0BA089 C0BA117 C0BC058 C0BC054 C0BA134 C0BC026 C0BC026 C0BC024 C0BC011 C0BC021 C0BC011 C0BC011 C0BC011 C0BC011 C0BA132 C0BA132 C0BA132 C0BA132 C0BA016 C0BA017 C0BA016 C0BA017 C0BA016 C0BA017 C0BA016 C0BA017 C0BA016 C0BA017 C0BA016 C0BA017 C0BA016 C0BA017 C0BA016 C0BA017 C0BA016 C0BA017 C0BA016 C0BA017 C0BA016 C0BA017 C0BA07 C0BA0	Janahi Mulaiheva Janahi Mulaiheva Janahi Mulaiheva Janahi Mahendra Sonawane Saloni Sonaji Lokhande Shivaniali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Sachin Jaiprakash Nayak Sachin Jaiprakash Nayak Sachin Jaiprakash Nayak Sugaj Itendra Gadiya Nigun Anirudh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan Bhise Suhas Ishwar Bhise Ajay Ashok Chambhare Kunal	Interpretable and a series of the series of	association 33303303 3057173493 9860971845 9284137107 94243789259 7720977839 8806790816 8087527426 8308774596 9252566991 7066061036 7038801769 9552566991 7066061036 7038801769 95516111279 9589292589 8551890041 9834351462 8605485161 8698299290 700567710
48 49 50 51 52 53	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite Dr. S.P.Godse	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based e-health systems Sign Language to Text and Speech Translation	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA036 COBA037 COBC054 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC022 COBC024 COBC022 COBC021 COBC022 COBC021 COBA032 COBA03	Janakin Huriahieva Janakin Huriahieva Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jajorakash Nayak Suyog Jitendra Gadiya Nipun Aniruddh Bansode CHETTANIYA VEIMA SUBHAM RAJ Devidas Chavan Bhise Ajay Ashok Chambhare Kunal Rushikesh Raut	histosoveginainski com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com com shaiyasayyad01@gmail.com shelkediksha2018@gmail.com shelkediksha2018@gmail.com ishaagarwal92255@gmail.com utyagi66@gmail.com shaagarwal92255@gmail.com utyagi66@gmail.com sachinnayak322@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com subasbhise40997@gmail.com bhiseaa777@gmail.com torkinseftacom bhiseaa777@gmail.com	absolut_Static
48 49 50 51 52 53	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite Dr. S.P.Godse	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based ehealth systems Sign Language to Text and Speech Translation	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA036 COBA036 COBA036 COBA080 COBA080 COBC084 COBC084 COBC026 COBC026 COBC024 COBC011 COBA122 COBA132 COBA132 COBA132 COBA016 COBC032 COBA047	Jinaki Mulaihevi Sakeri Lavyaz Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Suyog Jitendra Gadiya Nijun Anirudh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan Bhise Suhas Ishwar Bhise Ajay Ashok Chambhare Kunal Raushika Raut Ajay Nirutti Alure	https://www.initer.com salonisonwane1998@gmail.com salonisonwane1998@gmail.com saniyasayyad01@gmail.com cohinsiuryawanshi703@gmail.com rohinsiuryawanshi703@gmail.com shelkediksha2018@gmail.com ichhapani4@gmail.com khaagarwal92255@gmail.com utyagi66@gmail.com bihaagarwal9225g@gmail.com suvoggadiya223@gmail.com suvoggadiya223@gmail.com suvantettaniya666@gmail.com shubashotise40997@gmail.com shubashotise40997@gmail.com bihseaa777@gmail.com toshiseaa777@gmail.com toshiseaa777@gmail.com ajayalure@gmail.com	80012331 9330303030 9860971845 9284137107 9423789259 8806790816 8806790816 8806790816 9225502386 9225502386 9225502386 9225502386 9225502386 9225502386 92552566991 7066061036 9552566991 7066061036 9552566991 7066061036 9551800041 9552581800041 8605485161 8609299290 8600410562 8600410562 8600410562 901146226
48 49 50 51 52 53 54	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite Dr. S.P.Godse Prof. B.B. Gite	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based ehealth systems Sign Language to Text and Speech Translation Fake News Detection Analysis using Machine Learning	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing Soft Computing, Artificial Intelligence & Machine Learning Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA036 COBA036 COBA036 COBC026 COBC026 COBC026 COBC026 COBC021 COBC021 COBC022 COBC010 COBC021 COBC019 COBC019 COBA123 COBA122 COBA123 COBA123 COBA132 COBA017 COBC024 COBA017 COBA047	Janahi Muhaihev Shembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Suryog Jitendra Gadiya Nipun Aniruddh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan Bhise Siay Ashok Chambhare Kunal Rushikesh Raut Ajay Nivruti Ajure	histopogniaiscom salonisonwane1998@gmail.com salonisonwane1998@gmail.com shivanjalilokhande@gmail.com kawaghmare374@gmail.com rohinisuryawanshi703@gmail.com shelkediksha2018@gmail.com ichhapani4@gmail.com ishaagarwal92255@gmail.com utyagi66@gmail.com utyagi66@gmail.com sachinnayak329@gmail.com sachinnayak329@gmail.com suyoggadiya223@gmail.com syubham751raj@gmail.com shubham751raj@gmail.com shubham751raj@gmail.com shiseaa7777@gmail.com thisestraut75@gmail.com dhiyaneshwarkarande544@gmail.com	80012331 9330303030 7057173493 9860971845 9284137107 9423789259 8806790816 88087527426 8308774596 9225502386 9225502386 9252566991 7066661036 7038801769 9552566991 7066661036 7038801769 95512566991 9552566991 9552566991 9552566991 7066661036 7038801769 95512566991 8551890041 9834351462 8605485161 8698299290 7709526710 8600410562 9011463346
48 49 50 51 52 53 54	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite Dr. S.P.Godse Prof. B.B. Gite	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based e-health systems Sign Language to Text and Speech Translation Fake News Detection Analysis using Machine Learning	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing Soft Computing, Artificial Intelligence & Machine Learning Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA036 COBA036 COBA037 COBC054 COBC054 COBC026 COBC027 COBC028 COBC021 COBC021 COBC022 COBC011 COBC021 COBC011 COBC012 COBC011 COBA112 COBA122 COBA133 COBC025 COBC041 COBA047 COBA047 COBA047	Jinakin Muhaimedi Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Urkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jajorakash Nayak Suyog Jitendra Gadiya Nipun Aniruddh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan Bhise Suhas Ishwar Bhise Ajay Ashok Chambhare Kunal	hitosooganiansen salonisonwane1998@gmail.com shivanjalilokhande@gmail.com shivanjalilokhande@gmail.com saniyasayyad01@gmail.com rohinisuryawanshi703@gmail.com jchhapani4@gmail.com jchhapani4@gmail.com ishaagarwa192255@gmail.com utyagi66@gmail.com sachinayas432@gmail.com sachinayas432@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com subashise40997@gmail.com bhiseaa777@gmail.com torkusharestraggmail.com suhasbhise40997@gmail.com torkusharestraggmail.com ajayalure@gmail.com	absolut 2431 absolut 2431 </th
48 49 50 51 52 53 54	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite Dr. S.P.Godse Prof. B.B. Gite	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based ehealth systems Sign Language to Text and Speech Translation Fake News Detection Analysis using Machine Learning	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing Soft Computing, Artificial Intelligence & Machine Learning Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA036 COBA081 COBA082 COBA083 COBC054 COBC054 COBC026 COBC021 COBC022 COBC011 COBC021 COBC011 COBC012 COBC011 COBA132 COBA132 COBA132 COBA132 COBA016 COBA017 COBA047	Janahi Muhaiheva Janahi Muhaiheva Partik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivaniali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Suyog Jitendra Gadiya Nigun Anirudh Bansode CHETTANIYA VERMA SuBHAM RAJ Devidas Chavan Bhise Suhas Ishwar Bhise Suhas Ishwar Bhise Suhas Ishwar Bhise Ajay Ashok Chambhare Kunal Rushikeh Raut Ajay Nivrutti Alure KARANDE DNYANESHWAR YASHWANTRAO	https://www.initestance.org/in	asoo12331 asi330303030303 asi33030303030303030303030303030303030303
48 49 50 51 52 53 54	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite Dr. S.P.Godse Prof. B.B. Gite	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based e- health systems Sign Language to Text and Speech Translation Fake News Detection Analysis using Machine Learning	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing Soft Computing, Artificial Intelligence & Machine Learning Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA036 COBA039 COBA117 COBC054 COBC054 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC019 COBC025 COBC004 COBC012 COBC012 COBC012 COBC012 COBA013 COBA017 COBA016 COBA037 COBA047	Janahi Muhamba Salen Lanyaz Janahi Muhamba Salen Lanyaz Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayyad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jajrakash Nayak Suyog Jitendra Gadiya Nipun Aniruddh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan Bhise Suhas Ishwar Bhise Suhas Ishwar Bhise Suhas Ishwar Bhise Suhas Ashok Chambhare Kunal Rushikesh Raut Ajay Nivrutti Alure KARANDE DNYANESHWAR YASHWANTRAO	histopog naiso and several sev	00012331 03330030303 7057173493 9860971845 9284137107 9423789259 7720977839 8806790816 8308774596 9225502386 92552566991 7066061036 7038801769 9552566991 960641679 9511611279 958292589 8551890041 9 90114633462 9011463346 7506574427 7506574427
48 49 50 51 52 53 54 55	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite Dr. S.P.Godse Prof. B.B. Gite	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based e- health systems Sign Language to Text and Speech Translation Fake News Detection Analysis using Machine Learning Framework for Image forgery detection And	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning Networking and cloud computing Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA036 COBA036 COBA036 COBA036 COBA036 COBC084 COBC026 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC024 COBC021 COBC011 COBC011 COBA122 COBA122 COBA132 COBA133 COBC041 COBA047 COBA047 COBA047 COBA047 COBA047 COBA047 COBA047 COBA047	Janaki Mulaihevi Sakeri Lanyaz Pratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANIYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Suyog Jitendra Gadiya Nipun Aniruddh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan Bhise Suhas Ishwar Bhise Jiay Ashok Chambhare Kunal Rushikesh Raut Ajay Nivrutti Alure KARANDE DNYANESHWAR YASHWANTRAO	https://www.international.com salonisonwane1998@gmail.com salonisonwane1998@gmail.com saniyasayyad01@gmail.com cohinsiuryawanshi703@gmail.com shelkediksha2018@gmail.com ichhapani4@gmail.com ishaagarwal22255@gmail.com utyagi66@gmail.com sachinayak329@gmail.com suyoggadiya223@gmail.com suyoggadiya223@gmail.com shubashode1@gmail.com shubashode1@gmail.com shubashode1@gmail.com shubashosede1@gmail.com shubashosede1@gmail.com shubashosede1@gmail.com shubashosede1@gmail.com shubashosede1@gmail.com thorkunal022@gmail.com ajayalure@gmail.com chakrapaniswapnil23@gmail.com chakrapaniswapnil23@gmail.com	absolut 2431 absolut 2431 </td
48 49 50 51 52 53 54 55	Prof. A.P. Ramdasi Prof. M.A.R.Shabad Prof. P.D.Nanaware Prof. K.U.Jadhav Prof. B.B. Gite Dr. S.P.Godse Prof. B.B. Gite Prof. B.B. Gite	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework. Artificial intelligence healthcare chatbot system Waste Detection, Segregation, Monitoring and Warning System along with Waste Collection Service. Brain Tumor Detection and Classification Blockchain for secure EHRs sharing of mobile cloud based ehealth systems Sign Language to Text and Speech Translation Fake News Detection Analysis using Machine Learning Framework for Image forgery detection And classification Using Machine learning	Blockchain Framework. Soft Computing, Artificial Intelligence & Machine Learning Internet of Things Soft Computing, Artificial Intelligence & Machine Learning	COBA090 COBA036 COBA036 COBA036 COBA036 COBA089 COBA117 COBC054 COBC054 COBC026 COBC024 COBC012 COBC010 COBC012 COBC010 COBC012 COBC011 COBC019 COBC010 COBC012 COBC010 COBC012 COBC010 COBC012 COBC01	Janahi Mulaiheva Janahi Mulaiheva Aratik Balasaheb Ghembad Sonawane Saloni Sonaji Lokhande Shivanjali Mahendra Sayad Saniya Adam Waghmare Komal Arun Suryawanshi rohini Nanasaheb Shelke Diksha Appasaheb Chhapani Joshua Rajendra Yash Kamlesh Jain Isha Agarwal Utkarsh Tyagi BANYA KUNAL PRAVIN Himanshu Mehta Sachin Jaiprakash Nayak Sachin Jaiprakash Nayak Sachin Jaiprakash Nayak Sachin Jaiprakash Nayak Sachin Jaiprakash Nayak Sugu Jitendra Gadiya Nijeun Anirudh Bansode CHETTANIYA VERMA SUBHAM RAJ Devidas Chavan Devidas Chavan Bhise Siga Ashok Chambhare Kunal Rushikesh Raut KARANDE DNYANESHWAR YASHWANTRAO Swapnil Anil Chakrapani Shaikh Shahebaz Shaikh Sami Kiran Pawar	Interpretable and a series of the series of	20012331 93303030303 7057173493 9860971845 9284137107 9423789259 8806790816 8806790816 88087527426 8308774596 9225502386 9225502386 9225502386 92552566991 7066061036 7038801769 955166061036 7038801769 955166061036 7038801769 9551611279 9551890041 9834351462 8605485161 86098299290 7709526710 8600410562 9011463346 9011463346

Savitribai Phule Pune University											
	(with effect from 2018-19)										
			Sen	nestei	<u>r I</u>						
Course Code	Course	Teachin Hours	eaching Scheme Examination Scheme and Marks Hours / Week						Cre	dit	
		Theory	Practical	In- Sem	End- Sem	TW	PR	OR/ *PRE	Total	TH/ TUT	PR
410241	High Performance Computing	04		30	70				100	04	
410242	Artificial Intelligence and Robotics	03		30	70				100	03	
410243	Data Analytics	03		30	70				100	03	
410244	Elective I	03		30	70				100	03	
410245	Elective II	03		30	70				100	03	
410246	Laboratory Practice I		04			50	50		100		02
410247	Laboratory Practice II		04			50		*50	100		02
410248	<u>Project Work</u> Stage I		02					*50	50		02
		1	<u> </u>					Total	Credit	16	06
	Total	16	10	150	350	100	50	100	750	22	2
410249	Audit Course 5		1	1	1	1			1	Gra	.de
	Elective	I					Ele	ective II			
410244 (4	A) Digital Signal Pro	ocessing		4102	245 (A)	Distrib	uted S	Systems			
410244 (I	B) Software Archited	cture and	Design	4102	245 (B)	Softwa	re Te	sting an	d Quality	Assura	ance
410244 (0	C) Pervasive and Ub	iquitous (Computing	4102	245 (C) <u>(</u>	Operat	ions I	Research	<u>l</u>		
410244 (I	410244 (D) Data Mining and Warehousing 410245 (D) Mobile Communication										

410249-Audit Course 5 (AC5) Options:

AC5-I	Entrepreneurship Develop	ment AC5-IV:	Industrial Safety and Environment Consciousness
AC5-II:	Botnet of Things	AC5-V:	Emotional Intelligence
AC5-III:	<u>3D Printing</u>	AC5-VI:	MOOC- Learn New Skills
Abbrevia	ntions:		
TW: Terr	n Work TH: Theory	OR: Oral	PR: Practical

Sem: Semester *PRE: Project/ Mini-Project Presentation

Savitribai Phule Pune University Fourth Year of Computer Engineering (2015 Course) (with effect from 2018-19)

<u>Semester II</u>											
Course Code	Course	Teaching Scheme Hours / WeekExamination Scheme and Marks					Cree	dit			
		Theory	Practical	In- Sem	End- Sem	TW	PR	OR/ *PRE	Total	TH/ TUT	PR
410250	Machine Learning	03		30	70				100	03	
410251	Information and Cyber Security	03		30	70				100	03	
410252	Elective III	03		30	70				100	03	
410253	Elective IV	03		30	70				100	03	
410254	Laboratory Practice III		04			50	50		100		02
410255	Laboratory Practice IV		04			50		*50	100		02
410256	Project Work Stage II		06			100		*50	150		06
			1		1		1	Total	Credit	12	10
	Total	12	14	120	280	200	50	100	750	22	
4102 57	Audit Course 6						-			Gra	de
	Elective	III					I	Elective	IV		
410252	(A) <u>Advanced Digital Si</u>	<u>gnal Proc</u>	<u>cessing</u>		410253 (A) Software Defined Networks						
410252	(B) <u>Compilers</u>				410253 (B) <u>Human Computer Interface</u>						
410252	410252 (C) Embedded and Real Time Operating Systems					410253 (C) <u>Cloud Computing</u>					
410252	410252 (D) Soft Computing and Optimization Algorithms						410253 (D) <u>Open Elective</u>				

410259-Audit Course 6 (AC6) Options:

AC6-I:	Business I	ntelligence	AC6-IV:	Usability Engineering					
AC6-II: Gamification			AC6-V:	Conversational Interfaces					
AC6-III <u>:</u>	Quantum (Computing	AC6-VI:	MOOC- Learn New Skills					
Abbreviations:									
TW: Term	n Work	TH: Theory	OR: Oral	PR: Practical					
Sem: Sem	nester	*PRE: Project/ I	Mini-Project Prese	ntation					

Savitribai Phule Pune University Fourth Year of Computer Engineering (2015 Course) 410248:Project Work Stage I

		-
Teaching Scheme:	Credit	Examination Scheme:
Practical : 02 Hours/Week	02	Presentation: 50 Marks
Course Objectives:		

- To Apply the knowledge for solving realistic problem
- To develop problem solving ability
- To Organize, sustain and report on a substantial piece of team work over a period of several months
- To Evaluate alternative approaches, and justify the use of selected tools and methods,
- To Reflect upon the experience gained and lessons learned,
- To Consider relevant social, ethical and legal issues,
- To find information for yourself from appropriate sources such as manuals, books, research journals and from other sources, and in turn increase analytical skills.
- To Work in TEAM and learn professionalism.

Course Outcomes:

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

- Solve real life problems by applying knowledge.
- Analyze alternative approaches, apply and use most appropriate one for feasible solution.
- Write precise reports and technical documents in a nutshell.
- Participate effectively in multi-disciplinary and heterogeneous teams exhibiting team work, Inter-personal relationships, conflict management and leadership quality.

Guidelines

Project work Stage – I is an integral part of the Project work. In this, the student shall complete the partial work of the Project which will consist of problem statement, literature review, SRS, Model and Design. The student is expected to complete the project at least up to the design phase. As a part of the progress report of project work Stage-I, the candidate shall deliver a presentation on the advancement in Technology pertaining to the selected project topic. The student shall submit the duly certified progress report of Project work Stage-I in standard format for satisfactory completion of the work by the concerned guide and head of the Department/Institute.

The examinee will be assessed by a panel of examiners of which one is necessarily an external examiner. The assessment will be broadly based on work undergone, content delivery, presentation skills, documentation, question-answers and report.

<u>Follow guidelines and formats as mentioned in Project Workbook recommended by Board of Studies.</u>

Savitribai Phule Pune University Fourth Year of Computer Engineering (2015 Course) 410256: Project Work Stage II

Teaching Scheme:	Credit	Examination Scheme:
Practical : 06 Hours/Week	06	Term Work: 100 Marks Presentation: 50 Marks

Course Objectives:

- To follow SDLC meticulously and meet the objectives of proposed work
- To test rigorously before deployment of system
- To validate the work undertaken
- To consolidate the work as furnished report.

Course Outcomes:

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

- Show evidence of independent investigation
- Critically analyze the results and their interpretation.
- Report and present the original results in an orderly way and placing the open questions in the right perspective.
- Link techniques and results from literature as well as actual research and future research lines with the research.
- Appreciate practical implications and constraints of the specialist subject

Guidelines

In Project Work Stage–II, the student shall complete the remaining project work which consists of Selection of Technology and Tools, Installations, UML implementations, testing, Results, performance discussions using data tables per parameter considered for the improvement with existing/known algorithms/systems and comparative analysis and validation of results and conclusions. The student shall prepare and submit the report of Project work in standard format for satisfactory completion of the work that is the duly certified by the concerned guide and head of the Department/Institute.

Follow guidelines and formats as mentioned in Project Workbook recommended by Board of <u>Studies.</u>

Dept of Electronics & Telecommunication Engineering	Sinhgad Academy of Engineering Kondhwa Pune	Sinhgad Techanical Education Societys
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Sr.No	Name of Students	Exam Seat No	Title Of Project	Domain	Project Guide	Project Type
25	Patil Amey	B150433106	101 Based Floor Sanitizing Robot	Internet of Things	Dr. Mrs. R.V. Patil	Non-sponsored
26	Saaid UI Haque	B150433125	for Hospitais, Airports & Home			
27	Jaiswal Harsh	B150433054				
28	Kashid Omkar	B150433064	Plant Cultivation Assistant using Convolutional Neural Network	Vlsi & Embedded	Dr. Mrs. R.V. Patil	Non-sponsored
29	Kulkarni Tanmay	B150433069				
30	Bhosale Priya	B150433016				
31	Sadaphule Shubham	B150433126	Door Lock Security System using Eace Detection	Image Process	Dr. Mrs. R.V. Patil	Non-sponsored
32	Rupam Onkar	B150433097				
33	Bhamburkar Vaishnavi	B150433015				
34	Nimje Sakshi	B150433096	Electronic Voting System using	Embedded	Mr. R.U. Yawale	Non-sponsored
35	Malakar Jayprakash	B150433057				
36	Deshpande Pranav	B150433115	Corona Virus Door Bell to Restrict	Bio- Medical		
37	Nidwanche Bhagyashree	B150433094	People having Covid Symptons		Mr. R. U. Yawale	Non-sponsored
38	Parab Sayali	B150433102	with Hand Sanitizer			
39	Gaurkhede Shashwati	B150433135	Ambulance Assistance for		Mr. R.U. Yawale	
40	Thakkar Trishna	B150433160	Emergency Service Using GPS	Communication		Non-sponsored
41	Varma Sanjana	B150433162	Navigation			
42	Bukshetwar Shashank	B150433134				
43	Mishra Ashutosh	B150433083	Real Time Face Mask Detection	Network	Mrs. M.M. Patil	Non-sponsored
44	Pardhi Vaibhav	B150433103	using CIVIV			
45	Adhikari Anish	B150433003				
46	Gangavati Kartik	B150433040	Inspection of Mechanical Job using	,		
47	Rathi Purshottam	B150433119	Image Processing	Image Process	Mrs. M.M. Patil	Sponsored
48	Shrikhande Ruchir	B150433144				

Sr.No	Name of Students	Exam Seat No	Title Of Project	Domain	Project Guide	Project Type
49	Narwate Yogesh	B150433093				
50	Choudhary Rajesh	B150433024	Enhance Irrigation Apporach in Agricalture using IOT	Internet of Thing	Mrs. M.M. Patil	Non-sponsored
51	Patnure Tejshree	B150433110	rightennane assing to t			anna a' an ann an Aonaichte an ann an Aonaichte an ann an Aonaichte an ann an Aonaichte an Aonaichte an Aonaich
52	Bandure Ajajhamad H	B150433010				
53	Bagal Pratik H	B150433008	Gate Control over IOT(VDB)	Internet of Thing	Mrs. R.A. Jain	Non-sponsored
54	Barskar Pranav A	B150433013				
55	Chaudhary Sandesh	B150433025				
56	Surwade Siddhant	B150433150	Lifi Based Toll Collector (KNJ)	Embedded	Mrs. R.A. Jain	Non-sponsored
57	Khan Shahnawaz	B150433067				
58	Gawade Shubham	B150433041	IOT Based Health Care Support System for Alzheimer's Patients (STSP)	Internet of Thing		
59	Jakate Pramod	B150433055			Mrs. R.A. Jain	Non-sponsored
60	Nimbhorkar Shavani	B150433095				
61	Hande Deshmukh Divya	B150433047	Hand Gesture Recoganition to	Embedded		
62	More Krutika	B150433086	Speech Conversion in Regional		Mrs. V.P. Patil	Non-sponsored
63	Khakal Pratiksha	B150433066	Language			
64	Choudhary Pooja	B150433030	Intelligent SQL Database- Based		Mrs.V.P. Patil	
65	Deshmukkh Mrunal	B150433033	Attendance System & Application	Communication		Non-sponsored
66	Dixit Anjali	B150433038	using Python, Open CV			
67	Shubham More	B150433087	Saftey & Security solution for			
68	Shete Aditya	B150433138	School Bus through RFID, GSM Techonology using Visiting	Embedded	Mr. A.B. Ingole	Non-sponsored
69 J	Reddy Laxmi Swati	B150433122	Counter			
70 I	Bongirwar Tejas	B150433021				
71 F	Poal Somesh	B150433147	Image Captioning for Assistive Vision	Image Process	Mrs. J.A. Bagban	Non-sponsored
72 1	andalwade Suraj	B150433157				





Guide Anothene Dot Project Guide Project Type								
Sr.No	Name of Students	Exam Seat No	Title Of Project	Domani	Tojeet Guide			
73	Jadhav Yash	B150433053	V. Lists Number Plate Detection).		
74	Riyalata	B150433123	Using OCR	Image Process	Mrs. J.A. Bagban	Non-sponsored		
75	Suryawanshi Jyotsana	B150433151				2 		
76	Sarode Shubham	B150433129						
77	Bisht Kamal	B150433018	Internet of Things (IOT) Based	Internet of Thing	Mrs. J.A. Bagban	Non-sponsored		
78	Kanwate Shubham	B150433062	Weather Monitoring System	e e				
79	Swami Pooja	B150433154						
80	Headu Achal	B150433049	Contraction using			Non-sponsored		
81	Heagade Komal	B150433050	Steganography	Network	Mrs. P.R. Shahane			
82	Malvadkar Rutuja	B150433078						
83	Devtarase Harshada	B150433035	GSM Based Energy Meter Reading	Embedded	Mrs. P.R. Shahane	Non-sponsored		
84	Ghangale Divya	B150433042	System & Load Control using					
85	Nalage Vaishnavi	B150433090	Arduino					
86	Bhramanna Ganesh	B150433017			с. 			
87	Matkar Vaibhav	B150433081	Face Mask Detection with Alert	Image Process	Mrs. P.R. Shahane	Non-sponsored		
88	Poman Rutuja	B150433114	System using Image Processing	innuge i recess				
89	Govande Shreyash	B150433046						
90	Ajjampur Yukta	B150433005						
91	Jathar Sakshi	B150433056	Power Generation using	Embedded	Mrs. P. R. Kakkeri	Non-sponsored		
92	Shaikh Ayesha	B150433132	Gimnasium Equipments	Embedded	WIIS. R.D. Rakken	iton sponsored		
93	Sreelakshmi Manoj	B150433149						
94	Bankar Rishikesh	B150433011						
95	Chilwant Namrata	B150433027	IOT Based Smart Water Tank	Internet of Thing	Mrs. R.B. Kakkeri	Non-sponsored		
96	Muke Shreya	B150433088	1					





Sr.No	Name of Students	Exam Seat No	Title Of Project	Domain	Project Guide	Project Type
97	Tejas Dekate	B150433158				
98	Chinmay Dwivedi	B150433028	IOT Based Smart Office	Internet of Thing	Mrs. R.B. Kakkeri	Non-sponsored
99	Shivanshu Sahu	B150433127				
100	Belhekar Prashant	B150433014	Del Destric Destination			
101	Kale Gajanan	B150433060	Early Forest Fire Detection using Image Processing	Image Process	Mrs. V.M. Sardeshmukh	Non-sponsored
102	Kalme Shubham	B150433145	3 5			
103	Mante Rishikesh	B150433080	Drowsness Warning System in	Image Process	Mrs. V.M. Sardeshmukh	Non-sponsored
104	Raut Sanket	B150433121	Processing			•
105	Mohammad Asif	B150433084	Social Distancing & Mask		Mrs. V.M. Sardeshmukh	
106	Mohalkar Vaishnavi	B150433161	Monitoring System with Temp.	Embedded		Non-sponsored
107	Pawar Rohit	B150433124	Sensing			
108	Harane Gayatri	B150433048	3-D Hand Geometry Based	Image Process	Mr. V.D. Bharte	
109	Kadam Siddhika	B150433059	Authentication using Image			Non-sponsored
110	Kulkarni Shivangi	B150433068	Processing			
111	Labade Vaibhav A	B150433075	Ease Fraud Detection in Online		Mr. V.D. Bharte	
112	Memane Akshay	B150433001	Exam	Image Process		Non-sponsored
113	Patil Mohit	B150433107				
114	Ande Divij	B150433006				
115	Deshpande Vaibhav	B150433034	Students Management System	Embedded	Mr. V.D. Bharte	Non-sponsored
116	Kale Kaustubh	B150433061		Embedded	Witte V.D. Bharte	Tron sponsored
117	Kunjir Anuradha	B150433072				
118	Sathe Shantanu	B150433130				
119	Talande Pritesh	B150433116	Road Lane Detection & Tracking	Network	Mrs. K.N. Jagtap	Non-sponsored
120	Tandale Shravan	B150433156				

Sr.No	Name of Students	Exam Seat No	Title Of Project	Domain	Project Guide	Project Type
121	Pawar Sakshi	B150433112				
122	Patil Sudesh	B150433108	Floor Sanitization Machine	Embedded	Mrs. K.N. Jagtap	Non-sponsored
123	Kumbhar Varsha	B150433070				
124	Chamnaru Pooja	B150433022			· · · · · · · · · · · · · · · · · · ·	
125	Kunjir Kiran	B150433073	Intelligent Vehicle Accident	Embedded	Mrs. K.N. Jagtap	Non-sponsored
126	Teke Anuprabha	B150433159	Treventation System			
127	Vineet T Jaiswal	B150433163		Internet of Thing		
128	Mahajan Akshay Vijay	B150433076	Smart Refrigerator System using		Mrs. S. T Sawant Patil	Non-sponsored
129	Sutar Tushant Sunil	B150433153				
130	Malge Vaibhav	B150433077				
131	Shivade Mayuri	B150433143	Fake News Detection using Machine Learning	Machine Learning	Mrs. S. T Sawant Patil	Non-sponsored
132	Sutar Shubham	B150433152	interime Zealing			
133	Khamkar Priti	B150433117			Mrs. S. T Sawant Patil	
134	Pandhare Aboli	B150433101	Biomedical Impedance of			Non-sponsored
135	Patil Tejas	B150433109	Spectrometer	Bio-Medical		
136	Meshram Aman	B150433082				
137	Bagwan Sohel	B150433009	Railway Track Fault(Crack)			
138	Pande Ajay	B150433100	Detection System using GSM &	Network	Mr. Y.R. Bachkar	Non-sponsored
139	Sneh Kumar	B150433146	GPS Alert System			
140	Gaikwad Shivani	B150433039				
141	Khade Dhanashri	B150433065	Smart Automatic Petrol Pump	Embedded	Mr. Y.R. Bachkar	Non-sponsored
142	Pawar Govind	B150433111	System			
143	Mulmandkar Ashish	B150433089				
144	Shegaonkar Rucha	B150433137	Smart Helmet for Motor Cyclist	Embedded	Mr. Y.R. Bachkar	Non-sponsored

Sr.No	Name of Students	Exam Seat No	Title Of Project	Domain	Project Guide	Project Type
145	Shinde Sagar	B150433142				
146	Rohit Bhiku Divekar	B150433037			Mrs. S. Pahade	
147	Syed Shabuddin	B150433155	Stock Market Predication using Machine Learning Method	Machine Learning		Non-sponsored
148	Dake Dyaneshwar	B150433031	Machine Learning Method			
149	Deshmukh Aakash	B150433032	Lung Cancer Detection using			
150	Gopale Pranay	B150433045	Image Processing MATLAB	Bio-Medical	Mrs. S. Pahade	Non-sponsored
151	Kushe Diagambar	B150433074	Source Code			
152	Ashtankar Chirag	B150433007		Machine Learning		
153	Bodhale Prajwal	B150433019	Hace Mask Detection using Machine Learning		Mrs. S. Pahade	Non-sponsored
154	Shinde Moreshwar	B150433141				
155	Panchal Shubham	B150433099			Mr. R.P. Rajput	
156	Patil Akshay	B150433105	3 Axis Camera Gimbal	Embedded		Non-sponsored
157	Somwanshi Shubham	B150433148				
158	Jadhav Mayur	B150433051	Design Smart UV Mask Recycler	Visi & Embedded	Mr. P. P. Poinut	Non sponsored
160	Kumthekar Madhav	B150433071	System	Visi & Enibedded	MI. K.F. Kajput	Non-sponsored
161	Barathe Supriya	B150433012	Wireloss Multifunctional Data of fam			
162	Dhumal Vishwaajeet	B150433036	Military Application	Communication	Mr. R.P. Rajput	Non-sponsored
163	Shete Ajinkya	B150433139				

(Mrs.V.P.Patil.) Project Co-ordinator (Dr. K.M. Gaikwad) HOD

H. O. D. Dept. of Electronic & Telecommunications SINHGAD ACADEMY OF ENGG. Kondhwa (Bk), Pene - 48. This is to certify that the seminar report entitled

SMART HELMET FOR MOTORCYCLIST

Submitted By

Is a bonafide work carried out by them under the supervision by Prof.Y.R.Bachkar sir and it is approved for the partial fulfilment of the requirement of **Savitribai Phule Pune University** for the Project Part–I in the Final Year of Electronics and Telecommunication Engineering.

This Seminar report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

Ashish Avinash Mulmandkar Sagar Pralhadrao Shinde Rucha Rambhau Shengokar

Exam. No:B150433089 Exam. No:B150433142 Exam. No:B150433137

Prof.Y.R.Bachkar

Dr. K.M. Gaikwad

Dr. Kishore P. Patil

Guide

H.O.D and Vice Principal

Principal, SAOE, Pune

Place: Pune

0

Date: 15 06 2021

Examiner

This is to certify that the seminar report entitled

DROWSINESS WARNING SYSTEM IN AUTOMOBILE USING IMAGES PROCESSING.

Submitted By

RUSHIKESH MANTE ROLL NO. ETBA026

SANKET RAUT ROLL NO. ETBA037

Is a bonafide work carried out by them under the supervision by Prof V.M. Sardeshmukh and it is approved for the partial fulfilment of the requirement of **Savitribai Phule Pune University** for the Project Part–I in the Final Year of Electronics and Telecommunication Engineering.

This Seminar report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

Prof. V. M. Sardeshmukh

Guide

Dr. K.M. Gaikwad

H.O.D and Vice Principal

Dr. Kishore P. Patil

Principal, SAOE, Pune

Place: Pune

Date: 15/06 202

Examiner - Prof .K.N. Jagtap

This is to certify that the seminar report entitled

Real-Time Face Mask Detection Using CNN

Submitted By

Mishra Ashutosh Ravi Exam. No: B150433083 Pardhi Vaibhav Tejram Exam. No: B150433103 Exam. No: B150433134 Shashank Bukshetwar

Is a bonafide work carried out by them under the supervision by Prof. M.M.Patil and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University for the Project Part 1 in the Final Year of Electronics and TelecommunicationEngineering.

This Seminar report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

Prof. M.M. Patil

Guide

Gaikwad Dr.

H.O.D and Vice Principal

Dr. Kishore P. Patil

Principal, SAOE, Pune

ii

Place: Pune

Date: 15/06/2021

Examiner

This is to certify that the seminar report entitled

IOT based Floor Sanitizing Robot for Hospitals, Airports & Home

Submitted By

Ameya Patil Exam. No: B150433106 Priya Mandal Exam. No: B150433079 Saaid Ul Haque Exam. No: B150433125

Is a bonafide work carried out by them under the supervision by Prof. Dr. R.K. Patil and it is approved for the partial fulfilment of the requirement of **Savitribai Phule Pune University** for the Project Part–I in the Final Year of Electronics and Telecommunication Engineering.

This Seminar report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

Prof. Dr. R.K. Patil

Dr.K.M. Gaikwad

Dr. Kishore P. Patil

Guide

H.O.D and Vice Principal

Principal, SAOE, Pune

Place: Pune

Date: 15/06/2021

Examiner

This is to certify that the seminar report entitled

STUDENT MANAGEMNT SYSTEM

Submitted By

Ande Divij Pravin	Exam No: B150433006
Deshpande Vaibhay Press	-
Kel-K	Exam. No: B150433034
Kale Kaustubh Satish	Exam. No: B150433061
Kunjir Anuradha Nitin	
	Exam. No: B150433072

Is a bonafide work carried out by them under the supervision by Prof. Mr. V. D. Bharte and it is approved for the partial fulfilment of the requirement of **Savitribai Phule Pune University** for the Project Part–I in the Final Year of Electronics and Telecommunication Engineering.

This Seminar report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

Prof. Mr. V. D. Bharte

Guide

ATA

Dr. K.M. Gaikwad

H.O.D and Vice Principal



Dr. Kishore P. Patil

Principal, SAOE, Pune

Place: Pune

Date: 15/06/2021

Examiner

Savitribai PhulePune University Final Year E&TC Engineering (2015 Course) (With effect from Academic Year 2018-19)

				ļ	Semes	ter I							
Course	Course	Teaching Scheme Hours / Week			Sem	Semester Examination Scheme of Marks						Credits	
Code		Theor y	Tut	Pract	In- Sem	End- Sem	TW	PR	OR	Total	TH/TW	PR+OR	
404181	VLSI Design& Technology	3			30	70				100	3		
404182	Computer Networks & Security	4			30	70				100	4		
404183	Radiation & Microwave Techniques	3			30	70				100	3		
404184	Elective I	3			30	70				100	3		
404185	Elective II	3			30	70				100	3		
404186	Lab Practice -I (CNS+ RMT)			4			50		50	100		2	
404187	Lab Practice -II (VLSI + Elective I)			4			50	50		100		2	
404188	Project Stage I	-	2				-		50	50		2	
	Audit Course 5										-		
	Total	16	2	8	150	350	100	50	100	750	16	6	
			Tota	l Credi	ts							22	
<u>Electiv</u>	<u>ve I</u>												
1 Digit	tal Image and Video		Elec	<u>ctive II</u>					Audi	t Course	<u>5</u>		
Proces	sing		1. W	/avelet	s				1. Green Energy				
2. Indu	strial Drives and Con	trol	2. Electronics Product Design						2. Human Behaviour				
3. Embedded Systems & RTOS				3. Optimization Techniques									
4. Inter	rnet of Things		4. A	rtificia	l Intell	igence	;						
		5. E	lectron	ics in a	agricul	ture							

Final Year E&TC Engineering (2015 Course) (With effect from Academic Year 2018-19)

	Semester II											
		Teachi	ng Sc	heme	Sem	ester	Exan	nina	tion Sc	heme of		
		Hou	rs / W	eek			N	Iark	KS		Credit	
Course Code	Course	Theory	Tut	Pract	In- Sem	End- Sem	TW	PR	OR	Total	TH/TW	PR+OR
404189	Mobile Communication	3			30	70				100	3	
404190	Broadband Communication Systems	4			30	70	-			100	4	
404191	Elective III	3			30	70				100	3	
404192	Elective IV	3			30	70				100	3	
404193	Lab Practice –III (MC+BCS)			4			50	50		100		2
404194	Lab Practice –IV (Elective III)			2					50	50		1
404195	Project Stage II		6	-			150		50	200		6
	Audit Course 6											
	13	6	6	120	280	200	50	100	750	13	9	
									Tota	l Credits	2	2
Elective III 1. Machine Learning 2. PLC s and Automation 3. Audio and Speech Processing 4. Software Defined Radio 5. Audio Video Engineering			Elective-IVAudit1. Robotics1. Tea2. Biomedical Electronics5. Wireless Sensor Networks4. Renewable Energy SystemsDisast5. Open Elective*1. Tea					att Course 6 Feam Building, Leadership and ness Environmental issues and saster Management				

*Any one course from the list of Elective IV of computer/IT/Electrical/Instrumentation or Institute can offer elective IV based on any industry need with prior approval from BoS(Electronics & Telecommunication). Repetition of course or topics should be avoided. Raspberry Pi computer is developed. The connectivity is divided into server side software and client side software.

7.IoT based Web Controlled Home Automation using Raspberry Pi.

8. A Simple IoT Project with the ESP8266 WiFi module: Here is a simple project with ESP8266 wifimodule. This project collects the temperature and is displayed on the network.

9. Implement a RFID Based IoT Project

404188 P	Project Phase-I
С	Fredits: 02
Teaching Scheme:	Examination Scheme:
Tutorial: 2 Hrs/week	OR :50Marks
Note:	
 work. The abstract of the project should be subm 2. The report consists of the Literature Survey maximum of 40pages. 3. The examination is conducted by two examiners appointed must have minimum 5 yea qualification. 4. The assessment is based on Innovative contributions, presentation, and the grade giver semester. 5. A log book of Work carried out during the sthe guide and HoD. 6. A certified copy of report is required to be presented to	hitted before Term workassessment. y, basic project work and the size of the report should be ners (internal and external) appointed by the university. The ars of experience with UG qualification or 2 years with PG Idea, Depth of understanding, Applications, Individual n by the internal guide based on the work carried out in a semester will be maintained with monthly review remarks by esented to external examiner at the time of final examination.

Audit Course 5 (1):Green Energy

About the course

This course provides an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field and an emphasis on alternate energy sources and their technology and application. The students will explore society's present needs and future energy demands, examine conventional energy sources and systems, including fossil fuels and nuclear energy, and then focus on alternate, renewable energy sources such as solar, biomass (conversions), wind power, geothermal, and hydro. Energy conservation methods will be emphasized

Course Objectives:

- To understand the conventional and non conventional energy sources
- To understand different renewable energy sources and their generation
- To understand the various applications & benefits of renewable energy sources
- To enable student to understand project management, energy audit and Installation

404195 Project Phase-II								
Credits:06								
Teaching Scheme:	Examination Scheme:							
Tutorial: 6 Hrs/Week	TW: 150 Mark OR: 50 Marks							

1. GroupSize

The student will carry the project work individually or by a group of students. Optimum group size is in 3 students. However, if project complexity demands a maximum group size of 4 students, the committee should be convinced about such complexity and scope of thework.

2. Selection and approval of topic

Topic should be related to real life application in the field of Electronics and Telecommunication OR

Investigation of the latest development in a specific field of Electronics or Communication or Signal Processing

OR

The investigation of practical problem in manufacture and / or testing of electronics or communication equipment

OR

The Microprocessor / Microcontroller based applications project ispreferable.

OR

Software development project related to VHDL, Communication, Instrumentation, Signal Processing and Agriculture Engineering with the justification for techniques used / implemented is accepted.

OR

Interdisciplinary projects should be encouraged. The examination will be conducted independently in respective departments.

3. Note:

The group should maintain a logbook of activities. It should have entries related to the work done, problems faced, solution evolved etc., duly signed by internal and external guides. Project report must be submitted in the prescribed format only. No variation in the format will be

accepted. One guide will be assigned at the most 3 project groups.



Project Base Learning (P. B. L.) BATCH ALLOTEMENT SEM II 2020-21

Name of Staff	Division	Division Repea	atebatch 1	batch 2	batch 3	batch 4	Batch 5
Mrs. P. C. Jadhav	A	A, E					
Dr. S. P. Saptale	A		01, 02, 03,0 4, 05, 06	07, 08, 09, 10, 11, 12	13, 14, 15, 16 , 17	18, 19, 20, 21, 22	
Mr. Yogesh Bachkar	A	А, В	23, 24, 25, 26, 27	28,29, 30, 31, 32	33,34, 35, 36, 37	38, 39, 40, 41, 42,43	
Mr. P. S. Rade	A						
Mr. M. K. Kulkarni	A		44, 45, 46, 47, 48, 49	50, 51, 52, 53,54, 55	56, 57,58, 59, 60	61, 62, 63, 64, 65	
Mrs. S. S. Sawant	В	B, D	01, 02, 03,0 4, 05	06, 07, 08, 09,	10, 11, 12, 13,	14, 15,16, 17	
Mrs. V. R. Rokade	В		18, 19, 20, 21	22, 23, 24, 25	26, 27, 28, 29	30, 31, 32, 33	
Mr. Yogesh Bachkar	В						
Mrs. Shilpa Gadakh	В		34, 35, 36, 37	38, 39, 40, 41	42, 43, 44, 45	46, 47, 48, 49	
Mr. Ashok Admute	В	B, C	50, 51, 52, 53	54, 55, 56, 57	58, 59, 60, 61	62, 63, 64, 65	
Dr. Daljeet Kaur	С		01, 02, 03,0 4, 05	06, 07, 08, 09, 10,	11, 12, 13, 14, 15	16, 17, 18, 19	
Mrs. M. S. Poojari	С		30, 31, 32, 33, 34	35, 36, 37, 37, 38	39, 40, 41, 42, 43	44, 45, 46, 47	20, 21, 22, 23, 24
Mr. P. S. Rade	С	A, E	48, 49, 50, 51, 52	53, 54, 55, 56, 57	58, 59, 60, 61,	62, 63, 64, 65	25 26 27 28 29
Mr. Ashok Admute	С						10, 10, 11, 10, 15
Mrs. S. S. Sawant	D						
Mr. S. I. Barde	D		01, 02, 03,0 4, 05, 06	07, 08, 09, 10, 11, 12	13 14 15 16 17	18 10 20 21 22	
Dr. N. P. Dharmadhikari	D				-5, 11, 15, 10, 17	18, 19, 20, 21, 22	
Mrs. Anuja Gaikwad	D		23, 24, 25, 26, 27	28,29, 30, 31, 32	33 34 35 36 37	28 20 40 41 42 42	
Mrs. Pradnya Chaudhari	D	D, E	44, 45, 46, 47, 48, 49	50, 51, 52, 53,54, 55	56, 57,58, 59, 60	61, 62, 63, 64, 65	
Mrs. P. C. Jadhav	E		01 02 03 04 05 06	07 08 00 10 11 12			
Dr. N. P. Dharmadhikari	E			07, 08, 09, 10, 11, 12	13, 14, 15, 16 , 17	18, 19, 20, 21, 22	
Mrs. S. S. Borate	E		23, 24, 25, 26, 27	28 29 30 31 32	22.24.25.25		
Mrs. Shital Ghuge	E		44, 45, 46, 47, 48, 49	50 51 52 52 54	33, 34, 35, 36, 37	38, 39, 40, 41, 42,43	
Mrs. Pradnya Chaudhari	E	E	1, 10, 10, 17, 10, 49	50, 51, 52, 53,54,	55, 56, 57,58, 59	60, 61, 62, 63, 64	A STATE OF A STATE
Mrs. Pradnya Chaudhari	E	E			55, 56, 57,58, 59	60, 61, 62, 63, 64	

Processies of			Sinhgad Techni	cal Education Society's		1550		
			Sinhgad Aca	of Engineering, Pune 4	18			
			(Accredited by	NAAC with 'A' Grade)				
				STUDENT DATA 2020	21/SEM II)			
		Constant and a state of	PROJECT DASE LEARNING	3 STUDENT DATA 2020		.		
Sr.			N		Group No(Batch	Student Exam	Student Mobil	Group Project Title
No.	Division	ROII NO.	Name of Students	Name of Mentor	01/02/03/04/05)	Seat NO.	NO. 9075557357	Group Project Price
1	A	FEADUT	Adnikari Anunay Harshai			F190430007	8306766815	-
2	A	FEA002	All Sarif Murshed	_		F190430204	8421714831	Carbon based nanomaterials-Graphene and its engineering
3	A	FEADUS	Awasarmoi Shweta Nanokumar	Dr.Shridhar P.saptale	Batch 01	F190430310	0172110723	applications
4	A	FEAU04	Bacchav Ronit Anii	_		F190430021	8668607720	
5	A	FEADOS	Banate Rajnandini Avinash	_		F190430027	8657288435	
7	A	FEA000	Banda Jayesh Ravinura			F190430045	8308321921	
0	A	FEA007	Bhasala Sudarahan Surash		and the last last	F190430043	9325975693	
0		FEADOO	Bros Moyui Bajaram	_		F190430055	9763932381	- District Distinguisher M/hite and
10	A	FEA009	Folke Abbulleb Bedruddin	Dr.Shridhar P.saptale	Batch 02	F190430035	9136789882	Green chemistry, Biofuel-Biodiesel or White coal
11	A	FEAUTU	Colleved Toppyi Ariup	_		F190430308	8850792290	
12	A	FEA012		-		F190430097	7875111435	
12		FEA012	Gaikwad Tejas Isliwal			F190430103	9604949944	
11		EEA014	Gund Saurabh Hanumant	-		F190430110	8669617386	
15		EEA015	Hon Sakshi Vasantraa	Dr Shridhar P santale	Batch 03	F190430116	7798640703	Lithium ion Battery
16		EEA016	lagtan Sharayu Satish		Daten 00	F190430127	9067251075	
17		FEA017	Jandade Avush Vaibhav			F190430129	9370598542	
18		FEA018	Kadam Krishna Vijav			F19430134	7030795273	
19		FEA019	Kala Yash Ravindra	-		F190430139	8850268981	
20	A	FEA020	Kale Durvankur Kiran	Dr Shridhar P saptale	Batch 04	F190430140	9011930928	Server managing Bot
21	A	FFA021	Kamble Aditya Parashant			F190430141	9607576142	
22	A	FEA022	Katekar Omkar Suresh	-		F190430152	8698087723	
23	A	FEA023	Katkhede Aditya Sadanand	Mr. Yogesh Bachkar	Batch 1	F190430153	7218216750	HealMe
24	A	FEA024	KASARE ISHAN RAJU	Mr. Yogesh Bachkar	Batch 1	F190430150	9172005336	HealMe
25	A	FEA025	Khandagale Sharva Prasad	Mr. Yogesh Bachkar	Batch 1	F190430162	9763722134	HealMe
26	A	FEA026	Kudale Sourabh Anil	Mr. Yogesh Bachkar	Batch 1	F190430172	7028508607	HealMe
27	A	FEA027	Kumthe Ajit Wamanrao	Mr.Yogesh Bachkar	Batch 1	F190430174	8856082504	HealMe
28	A	FEA028	Lembhe Samruddhi Raju	Mr.Yogesh Bachkar	Batch 2	F190430177	7447858587	Home Automation(Smart Home)
29	A	FEA029	Lonkar Madhav Sandeep	Mr. Yogesh Bachkar	Batch 2	F190430179	9370548600	Home Automation(Smart Home)
30	A	FEA030	Malule Raviraj Pandurang	Mr. Yogesh Bachkar	Batch 2	F190430271	7888082908	Home Automation(Smart Home)
31	A	FEA031	Mangalure Shubham Shrishail	Mr. Yogesh Bachkar	Batch 2	F190430187	9075549125	Home Automation(Smart Home)
32	A	FEA032	Misal Ganesh Navanath	Mr.Yogesh Bachkar	Batch 2	F190430194	9689495421	Home Automation(Smart Home)
33	A	FEA033	More Mitali Dhondiba	Mr.Yogesh Bachkar	Batch 3	F190430199	8767691902	AUTOMATIC POWER SWITCH USING INFRARED MOTION SENSOR
34	A	FEA034	Nagale Samartha Dattatray	Mr.Yogesh Bachkar	Batch 3	F190430204	8329057193	AUTOMATIC POWER SWITCH USING INFRARED MOTION SENSOR
35	A	FEA035	Patil pranav Arun	Mr.Yogesh Bachkar	Batch 3	F190430235	9767245805	AUTOMATIC POWER SWITCH USING INFRARED MOTION SENSOR
36	A	FEA036	Pedgulwar Sumit Sanjay	Mr. Yogesh Bachkar	Batch 3	F190430244	9763369671	AUTOMATIC POWER SWITCH USING INFRARED MOTION SENSOR
37	A	FEA037	Rane Prachi Deepak	Mr. Yogesh Bachkar	Batch 3	F190430257	7708862195	AUTOMATIC POWER SWITCH USING INFRARED MOTION SENSOR
38	A	FEA038	Rathod Ketaki Kalpesh	IMI. Yogesh Bachkar	Batch4	F190430267	7218011906	Clap Switch
39	A	FEA039	Repe Simran Kiran	INIT. YOGESH BACHKAR	Batch4	F190430318	9359121029	Clap Switch
40	A	FEA040	Shaikh Ayesha Farukh	Mr. Yogesh Bachkar	Batch4	F190430291	9370432661	Clap Switch
41	A	FEA041	Shaikh Eram Asif	INIT. YOGESH BACHKAR	Batch4	F190430292	9588651405	Clap Switch
42	A	FEA042	Shelake Balasaheb Sunil	Mr. Yogesh Bachkar	Batch4	F190430295	8378094402	Clap Switch
43	A	FEA043	Shelar Yash Balasaheb	Mr. Makarand kulkarni	Batch 1	F190430297	/666359887	
44	A	FEA044	Shelke Sanket Umesh	Mr. Makarand kulkarni	Batch 1	F190430308	86009402095	VIRTUAL PERSONAL ASSISTANT
45	A	FEA045	Shitole Sanket Abasaheb	Mr. Makarand kulkarni	Batch 1	F190430314	9156086518	VIRTUAL PERSONAL ASSISTANT
46	A	FEA046	Srivastava Prateek Manoj	Mr. Makarand kulkarni	Batch 1	F190430324	7776829484	VIRTUAL PERSONAL ASSISTANT
47	A	FEAU4/	Tale Challanya Waruti	Mr Makarand kulkarni	Batch 1	F190430327	8378915254	VIRTUAL PERSONAL ASSISTANT
48	A	FEAU48	Mawara Cauray Cokul	Mr Makarand kulkarni	Batch 1	F190430357	7397970437	VIRTUAL PERSONAL ASSISTANT
49	A	FEA049	Waykula Shribari Ajinath	Mr Makarand kulkarni	Batch 2	F190430358	9404519764	Maths Matrix Calculator
50	A	FEA051	Aber Srushti Girish	Mr. Makarand kulkarni	Batch 2	F190430011	7588539888	Maths Matrix Calculator
51	~	EEA052	Rabeti Robit Atul	Mr Makarand kulkarni	Batch 2	F190430024	7588821172	Maths Matrix Calculator
52	A	FEAU32	Daneu Nunit Atur					

53	A	FEA053	Bansode Pavan Aniruddh	Mr. Makarand kulkarni	Batch 2	F19043003	7851045702	Maths Matrix Calculator
54	A	FEA054	Bembade pranav ankush	Mr. Makarand kulkarni	Batch 2	F1904300	9763064000	Maths Matrix Calculator
55	Δ	FEA055	Khan Zaid Javed	Mr. Makarand kulkarni	Batch 2	F190430161	9970947869	Maths Matrix Calculator
56	A	FEA056	Bhondaye Sarupta Mahaday	Mr. Makarand kulkarni	Batch 3	F190430044	9356898097	AUTONOMOUSCARSYSTEM
50		EEA057	Phuibal Manai Shashikant	Mr. Makarand kulkarni	Batch 3	F190430050	9834631660	AUTONOMOUSCARSYSTEM
50	A	FEA057	Chanduakaa Uliiyal Chrikayahaa		Datch 3	F100430058	7719956234	AUTONOMOUSCARSYSTEM
50	A	FEA050	Chandurkar Ojjwai Shrikrushna	Mr. Makarand kulkarni	Batch 3	F190430050	9623859965	AUTONOMOUSCARSYSTEM
59	<u>A</u>	FEA059	Chavan Aniket Navnath	Mr. Makarand kulkarni	Batch 3	F190430039	3023033300	
60	A	FEA060	Dhope Shalaka Medhulkor			F100420072	7218207392	ALASSISTANT USING PYTHON LANGUAGE
61	A	FEA061	Dange Badri Kailasappa	Mr. Makarand kulkarni	Batch4	F190430073	7210207592	ALASSISTANT USING PYTHON LANGUAGE
62	A	FEA062	Deore Kalyani Sunil	Mr. Makarand kulkarni	Batch4	F190430076	7797700300	ALASSISTANT USING PYTHON LANGUAGE
63	A	FEA063	Solanki Laksh Santosh	Mr. Makarand kulkarni	Batch4	F190430319	7790774331	ALASSISTANT USING PYTHON LANGUAGE
64	A	FEA064	Alapure Ankita Govind	Mr. Makarand kulkarni	Batch4	F190430015	9112/07/55	ALASSISTANT USING PYTHON LANGUAGE
65	A	FEA065	Bhosale indrayani vijaysinh	Mr. Makarand kulkarni	Batch4	F190430047	8408817379	
66	В	FEB001	Ansari Aatif Akhlaque			F190430195	8668988286	
67	В	FEB002	Athave Sumit Prakashrao			F190430020	9422708606	Train Recording System
68	В	FEB003	Barve Snehal Moshe	Mrs.S.S.Sawant	Batch -01	F190430032	9890304944	Train Reservation bystem
69	В	FEB004	Bhadawankar Sejal Sanjay			F190430036	7385083205	
70	В	FEB005	Bhagat Sanchi Balasaheb			F190430037	9067464216	
71	В	FEB006	Bhalerao Aditya Vimalkant			F190430039	7219024907	
72	B	FEB007	Bhambure Shrevas Shrikant		Batab 02	F190430312	8010591448	Smart Class: A Boon To Todays World
73	B	FEB008	bharti hrutwik ramkisan	Mirs.5.5.Sawant	Batch -02	F190430041	9011122645	
74	B	FEB009	Borate Ramesh Bapurao			F190430054	9552906367	
75	B	FEB010	Dangde Srushti Vijav			F190430072	7038239649	
76	B	FEB011	Deokar Prathamesh Someshwar		Datab 02	F190430260	9284703975	Rainwater Harvesting
77		EEB012	Dhote Aditya Ram	Mrs.S.S.Sawant	Batch -03	F190430080	7020385954	
70		FEB012	Cohonyar Bhagwansingh Bharatsingh	-		F190430091	9960586887	
70		FEB013	Jadhay Pratik Prakash			F190430262	9420434728	
19	B	FEBU14	Jadhay Abbisbok Vishnu	-		F1904330005	9421164744	IOT Recod Home Automation
80	B	FEBUIS	Khiveneere Bhekti Bekech	 Mrs.S.S.Sawant 	Batch -04	F190430166	9503475106	TOT Based Home Automation
81	В	FEBUID	Knivarisara Dilakti Kakesii	-		F190430138	7620983801	
82	B	FEBUI/	Kakade Subboun Sum			F190430217	7030795273	
83	В	FEBUIO	Karetker Brethomosh Mabesh	-		F190430145	8850268981	Coloulater Liena HTML IS and CS
84	В	FEBUIS	Karatkar Pratilamesh Wallesh	 Mrs. Rokade V. R. 	Batch 1	F190430146	9011930928	Calculator - Using HTML, 35 and CS
85	B	FEB020	Karmarkar Sonam Sushan	-		F190430158	9607576142	
86	B	FEB021	Khamkar Fash Sanjay			F190430164	8698087723	
87	В	FEB022	Knarche Valshnavi Salish	-		F190430175	7218216750	Application Of Inner Product In Higher Dimensional
88	В	FEB023	Lakai Prashant Vishnu	Mrs. Rokade V. R.	Batch 2	F190430190	7720948703	SpaceVideo Games
89	В	FEB024	Mehakare Pratik Vasantrao	-		F190430214	9763722134	
90	В	FEB025	Nevase Madhura Haribhau			F190430221	7028508607	
91	B	FEB026	Pai Venkatesh Vivek	_		F190430168	8856082504	TIC TAC TOF USING PYTHON PROGRAMMING
92	B	FEB027	Pandey Kiran Girishchandra	Mrs. Rokade V. R.	Batch 3	F190430225	7447858587	
93	B	FEB028	Parab Sail Ramchandra			E100430223	9370548600	
94	В	FEB029	Pargaonkar Anurag Abhay			F190430227	7000000000	
95	B	FEB030	patil ishant Rajesh			F190430117	0075540125	
96	В	FEB031	Patil Prajwal Pandurang	Mrs. Rokade V. R.	Batch 4	F190430234	9075549125	ATM MANAGEMENT SYSTEM
97	В	FEB032	Patil Deepraj Bharat			F190430230	9689495421	
98	В	FEB033	Pinto Aaryan Dennis			F190430252	8767691902	
99	B	FEB034	Raia Manickam R Ajay			F190430264	8805580217	
100	B	FEB035	Sable Vinay Brahmadev	Shilpa Gadakh	Batch 1	F190430274	8625003920	Automatic Street Light Control System
101	B	FEB036	Kokade Aditva Hemant	- Silipa Gadakii	Daton	F190430008	9623500376	
102	B	FEB037	Sankal Shrevas Hemchandra			F190430283	9112695507	7
102	B	FEB038	Satunkar Atharva Sharad			F190430286	7448017971	
103	B	FEB030	Shah Eivona nivush	Chiles Codekt	Batab 2	F190430289	9503100878	Coming with Buthon Brogramming
104	D	EEB040	Patil Robit Ramesh	Shiipa Gadakh	Batch 2	F190430237	7020073656	
105	D	EED040	Shaikh Kashif Ahmad			F190430293	9860028183	3
100	D	EEP041	Shaikh Mahmadean/ar Pashid			F190430294	9527169686	5
10/	B	FED042	Shandaga Akankeha Vijevkumar			F190430014	749944300	
108	В	IFEBU43	Shendage Akanksha Vijaykumar	Shilpa Gadakh	Batch 3	F190430304	832928031	Video to Audio Converter by Using Python Programming
109	В	FEBU44	Shinde Sharayu Sharad	-		F190430301	917573244	5
110	В	IFEB045	Shinde Arpita Kajesh			E100430343	914641526	
1 111	В	FEB046	Shinde Shrihari Sharad			F190430313	314041525	

		1=====17	ITalavala Sabil Rajesh		Datch 4	F1904303	9373626624	Barcode Scanner and Data Collector with Python Language
112	В	FEB047	Machmara Siddhant Jagannath	Shilpa Gadakh	Batch 4	F190430	9765450301	-
113	В	FEB048	Waghmale Slouhant Sagamath			F190430356	9021727174	
114	В	FEB049	Wankhade Plankur Sharad			F190430359	9637439059	
115	В	FEB050	Yadav Gururaj Samonaji			F190430094	7972895220	'Cyber security'
116	В	FEB051	Gaikwad Ganesh Yeshwant	Ashok M Admute	Batch	F190430098	8669452419	
117	В	FEB052	Galange Sanskruti Anii			F190430100	9075061754	
118	В	FEB053	Gandhi Sakshi Shirish			F190430315	8788133904	
119	В	FEB054	Gawade Shubham Dattatray			F190430109	7028817599	Power generation on highway by savonius wind turbine
120	В	FEB055	Gulave Sanskar Sachin	Ashok M Admute	Batch 2	F190430345	9577214777	
121	В	FEB056	Jadhav Vishwajeet Uddhavrao			F190430121	9503277500	
122	В	FEB057	Jadhav shailesh ravindra			F190430119	9322521084	
123	В	FEB058	Jadhav Neha Dasharath			F190430126	9370914938	Environmental Impact of paper industry
124	В	FEB059	Jagtap Saurabh Pradip	Ashok M Admute	Batch 3	F190430142	9623360158	
125	В	FEB060	Kamble Shreyash Satish			F190430165	7758023922	
126	В	FEB061	Khenat Netra Ajay			F190430183	9561002554	
127	В	FEB062	Khilari Manasi Dhondibhau			F190430160	9689096165	E waste
128	B	FEB063	Khan Rehan Tarique	Ashok M Admute	Batch 4	F190430197	9607612016	E-Wasic
129	B	FEB064	MOMIN MOHAMMED MUSHFIQ SAMEER			F190430275	8380096015	
130	B	FEB065	GADADE SAKSHI SUNIL			E190430026	9511887002	
131	C	FEC001	Bamane Aryan Suryakant			F190430031	7517891504	
132	C	FEC002	Bansode Tajas Rajendra		Datab 1	F100430042	7030801803	Population explosion in India
132	C	FEC003	Bhatale Prathamesh Madhukar	Dr. Daljeet Kaur	Batch	F190430042	9356664551	
134	C	FEC004	Bochare Om Adhikrao		Server & Server	F190430056	9561820848	
125	C	FEC005	Chakka Kaushikram Sureshkumar			F190430050	9152698688	
135	0	FEC006	Chalse Tanvi Saniay			F190430037	8275228183	
130	0	FEC007	Dakhane Sarthak Bhausaheb	Course in a second	Datab 2	F190430070	9834763151	Air Polution
13/	0	FEC008	Eengade Kunal Ashok	Dr. Daljeet Kaur	Batch 2	F190430089	8623038996	
138	0	FECODO	Gadekar Govinda Babasaheb		- Heston I -	F190430089	9325494165	
139	0	FEC009	Gandhare Dryanesh Vitthalrao			F190430099	9370244074	
140	0	FECO10	Havaldar Mobin Asim			F190430114	8308810971	
141	0	FEC012	ladhay Mansi Uddhay		Datab 2	F190430110	7744933700	Covid -19 Education
142	0	FEC012	Jambhulkar Amey Yadao	Dr. Daljeet Kaur	Batch 5	F190430120	9356823335	
143	C	FEC013	Jawale Shantanu Sambhaii			F190430130	9637942464	
144	0	FEC014	kadgave Rohini Ram			F190430133	9325729087	
145	0	FEC015	Kanse Himanshu vijav		and the second second	F190430147	7721901912	o the heating and Payment
146	0	FEC010	Kapyal Prathmesh Arun	Dr. Dalieet Kaur	Batch 4	F190430147	9021423563	Online banking and Fayment
14/	0	FECUIT	Kasar Harshad Balshiram	Dr. Dujeet tue		F190430115	8767718545	
148	C	FECO10	Kedar Spehal Shahaji			F190430155	9284986024	
149	C	FECOIS	Kendre Shital Datta		Contractor Restriction	E100430163	9579917626	
150	C	FEC020	Kharat Dinak Dadaso		1	F190430169	9766851266	python program for secret conversation
151	C	FECU21	Kalakar Sumit Shrikant	Mrs. M.S.Poojari	1	F190430103	9607128074	p)
152	C	FEC022	Kumayat Sanket Dryaneshwar			F190430173	7387751913	
153	C	FEC023	Lauba Kshitii Dovaneshwar			F190430178	7588927008	
154	C	FECU24	Landbe Avanti Santosh			F190430176	7559434206	
155	C	FEC025	Mana Ketki Kishor	and the second sec	-	F190430105	8928467499	School Management System
156	C	FEC026	Mara Bajesh Bharat	Prashant S Rade	5	F190430200	7972529865	
157	С	FEC027	More Rajesii Bilalat		and the second	F190430205	0766160510	
158	С	FEC028	Nagare Valbrav manonal	a state of the second state of the		F190430216	9700100310	
159	С	FEC029	Nimse Aditya Diriesi		La contra a la	F190430222	9339709333	
160	С	FEC030	Paknale Prema Jiteliora		in the second second	F190430232	7875090024	Social Change
161	С	FEC031	Patil Jayesh Pramod	Mrs. M.S.Poojari	2	F190430236	/8/5009924	Social Change
162	C	FEC032	Patil Preetam Babaso		and the second s	F190430231	99050403494	
163	С	FEC033	Patil Harshwardhan Sandeep		and the second second	F190430241	0003049201	
164	C	FEC034	Pavaskar Rahul Sachin			F190430243	9001000/39	Face Mask Detection Application using Python programming
165	C	FEC035	Pawar Sumit Vikas		3	F190430246	91/24/5239	
166	С	FEC036	Pereira Moses Joseph	Mrs. M.S.Poojari		F190430248	0411997205	language
167	C	FEC037	Phalake Anuja Sanjay			F190430250	91/28121/3	
168	С	FEC038	Phule Prathmesh Unyandev			F190430255	7559166055	of a start of the same of
169	C	FEC039	Porwal Pratham Jayantilai			F190430266	8149822855	Website design with the help of html & ces under the hand the
170	C	FEC040	Rathi Vedant Laxmikant					

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				1	4	F190430276 9579075681 city gallery
171	С	FEC041	Salaskar Sakshi Narendra	Man M & Dociari		F190430 9011498293 CK gallery
172	С	FEC042	Lande Nikhil Ramdas	MIS. W.S.POUJan		F190430303 7620963020
173	C	FEC043	Shinde Satyajeet Anil			F190430306 7219730101
174	С	FEC044	Shirole Kailas surekant			F190430016 9075828237 Battery percentage indicator extention in python
175	С	FEC045	Sukale Ankita Jitendra			F190430322 9923536988
176	С	FEC046	Suthar Pravin Ghevarchand			E190430334 8767156436
177	С	FEC047	Umare Aditi Jaypal			E190430344 9370630913
178	С	FEC048	Vidhate Sanket Balbhim			E190430346 9028857780
179	C	FEC049	wade ishan surendra			E10430083 9370608314 Hotel Management System
180	С	FEC050	Dighe Shweta Anil	Prashant S Rade	· ·	<u>E190430193</u> 8308951174
181	C	FEC051	Mhetre Harshvardhan Ramesh			F1904301233 7083717305
182	C	FEC052	Patil Mayuri Rajendra			F190430261 8105873142
183	C	FEC053	Patil Prathamesh Vijaykumar			F190430285 9623716079
184	C	FEC054	Satdive Kiran Gorakshanath]		E100430290 7620320091 Library Management System
185	C	FEC055	Shah Neel Tushar	Prashant S Rade	2	F1904302306 9307721969
186	C	FEC056	Shelar Akash Arun			70430230 300712 775008105
197	<u> </u>	FEC057	Shewale Mrunal Dilip	1		721303716 77730570948
100	<u> </u>	FEC058	Shinde Shweta Ariun			F190430305 0010705050
100	0	EEC050	Shitole Atharva Vijav	Drochant S Rade	3	F190430307 937565660824 Body Mass Index Calculator
109	0	EEC060	Tambe Chhava Ashokrao	Flashant o Rade	-	F190430323 935605027
190	0	FEC061	Thitme Athanya Subhash			F 19043032 9300371771
191	0	FEC062	Wadmare Savali Kishor			
192	C	IFEC002	Rowar Kalpesh Anand	Dreabant S Pade	4	F190430242 / 000303152 Touchless Doorbell
193	C	FECOGA	Dicol Siddhi Vasantrao	Prashant S Rade		F190430254 9011423030
194	C	FEC004	Khot Aditya Sanjay	1		F190430167 976363502
195	C	FEC005	Achowad Atul Sainath			F190430006 / 387414047
196	D	FEDOUT	Achtekar Sudbanshu Prashant	1		F190430018 9923510435
197	D	IFED002	Ashtera Sudhanshu Hushan	Ma C Barda	Batch 1	F190430013 9309780820 Web development
198	D	FEDUUS	Autral Alshwarya Nathakar	Mir. S. I. Baide	Daton	F190430025 9421102973
199	D	FED004	Balikal Saloli Salappa			F190430311 8459325282
200	D	FED005	Bangale Shreyas Rushikesh			F190430038 7/4383/204
201	D	FED006	Bhagala Yash Dilin			F190430360 9022951549
202	D	FED007	Bhosale Harshal Gannati	1	1. 1. A. (7) . A.	F190430046 7020866116
203	D	FED008	Bhosale Harshar Garaksha	1 March Barda	Batch 2	F190430063 9822786436 COVID 19 Vaccine tracker
204	D	IFED009	Chavan Vijay Goraksha	Mr. S. I. Barde	Datonz	F190430064 9623652440
205	D	FEDUIU	Chiaikamwala Batul Yusuf			F190430066 7276350680
206	D	FEDUIT	Date Siddhant Babul	1		F190430071 8308695207
207	D	FED012	Darvis Sidulalit Kalidi			F190430074 9423862556
208	D	FED013	Darade Haishwaidhan babasanos	1		F190430077 8698494701
209	D	FED014	Dhagale Valshilavi Visitvanati	Mr. S. I. Barde	Batch 3	F190430078 8530298945 Desktop voice assistant by using python
210	D	FED015	Dhariwala Murtaza Murtaza	1		F190430310 9049788006
211	D	FED016	Ghadge Shreeprasad Ann	1		F190430106 7774979122
212	D	FED017	Ghule Sanskar Kashinati			F190430108 8975444331
213	D	FED018	Golekar digvijay Dhananjay	-		F190430019 7757945443
214	D	FED019	Gudage Athary Atur	Mr S I Barde	Batch 4	F190430120 7887356677 Automatic street light
215	D	FED020	Jadhav Rohit Kalyan			F190430122 8830086429
216	D	FED021	Jadhav Shubham Bhagwan	-		F190430111 7385117708
217	D	FED022	Jagtap Harsh Deepak			F190430125 9922190657
218	D	FED023	jagtap pratik shivaji			F190430148 9325455855
219	D	FED024	Kasar Pushkar Yogesh	Callowed Apula K	Batch 1	E190430151 7721044369 Speed Detector
220	D	FED025	Katake Rupali Bhanudas	Gaikwau Anuja K.	Daton	E190430309 8602103104
221	D	FED026	Mahajan Shobhit Kailash			E190430170 9850206346
222	D	FED027	Kolhale Prathmesh Dilip			E190430181 8698899177
223	D	FED028	Mahadik Srushti Santosh			E100430182 0637385380
224	D	FED029	Malbhage Yash Sangameshwar		Databo	E100430102 3037303303
225	D	FED030	Mandge Nitin Indrabhan	Gaikwad Anuja K,	Batch2	F100420104 75051410/5 Desktop Assistant
226	D	FED031	More Vaishnav Kailasrao			
227	D	FED032	Nagargoje Tushar Tukaram			F190430206 9370684663
228	D	FED033	Nair Santhipriyan Ramchandran			F190430281 8483894369
229	D	FED034	Nandede Devanand Madhav			F190430210 9284978693
	the second s		• A set of the set		State of the second	

230	D	FED035	Nukte Vedant Vivek		Batch3	E190430218 9021243305	Website Creation
231	D	FED036	panchal vaibhavi Raikumar	- Gaikwau A,K,	Batchis	F190430 9373528879	Website of cation
232	D	FED037	Papal Prathmesh Dattatray	-		E190430274 9322596321	
233	D	FED038	Patil Avinash Anil			F190430224 9322390321	
234	D	FED039	Pisal Shivtei Manoi	_		F190430253 7249257458	
235	D	FED040	Qureshi Mohammad Avez Nizaamuddin	_		F190430263 8623086814	
236	D	FED041	Savvad Simran Jilani	Gaikwad A.K.	Batch 4	F190430203 8023080814	Covid Survey- Pandemic and the world
237	D	FED042	Sherekar Rasika Santosh	_		F190430200 9037833838	
238	D	FED043	Shinde Renu Vijavkumar	_		F190430299 8080288109	
230	D	FED043	Sutar Pradoon Sambhaii			F190430302 7387720300	
240	D	EED045	Vadla Caurau Marati	_		F190430321 9011790730	
240	0	FED045	vadie Gaurav Maroti	_		F190430338 9022960227	
241	D	FED040	Venikar Sal santosn	- Mrs. Pradnya N. Chaudhari	Batch 01	F190430341 9359953649	Network and information security
242	0	FED047	Vibrute Anjali santosn	_		F190430343 9529060552	
243	0	FED048	vvagnmare Sanii Ajay	_		F190430351 8857039167	
244	0	FED049	Vvakchaure Valbhav Subhash			F190430340 9373523621	
245	D	FED050	Vvakdikar Mayank Vilas	_		F190430354 8169448787	
246	D	IFED051	Yedage Pratik Ambadas			F190430361 7841047329	
24/	D	FED052	Oswal Sujal Vinod	Mrs. Pradnya N. Chaudhari	Batch 02	F190430219 7798687156	Growth and Development of ATM Machine in India
248	D	FED053	Moolya Deepak Ramesh			F190430198 7559496380	
249	D	FED054	Palekar Abdullah Zakir			F190430002 9356947351	
250	D	FED055	Nande Akshada Ankush			F190430209 7057036183	
251	D	FED056	Momin Affan-Ahmed Firoj			F190430196 7378607967	
252	D	FED057	Bankar Srushti Dilip			F190430029 8530636224	Development of an information contor
253	D	FED058	Khan Abrar Javed	Mrs. Pradnya N. Chaudhari	Batch 03	F190430159 9822242435	Development of an information center
254	D	FED059	Nagre Rhythm Ghanshyam			F190430207 7420985248	
255	D	FED060	Pashine Harsh Rakesh			F190430112 6232883216	
256	D	FED061	Sinha Abhishek Pramod			F190430004 7742376962	
257	D	FED062	Ansari Usama Mansoor			F190430337 8862023758	ARYSTOCH PRENOV THE SUTURE CURRENCY
258	D	FED063	Ghisare Ajinkya Vijay	Mrs. Pradnya N. Chaudhari	Batch 04	F190430104 9552679797	CRYPTOCURRENCY-THE FUTURE CURRENCT
259	D	FED064	Bhoskar Yogesh Anantrao			F190430049 8805707392	
260	D	FED065	Gaikwad Rohit Rajendra			F190430096 9960385782	
261	E	FEE001	Agrawal Aayush Ashish			F190430001 8793885327	
262	E	FEE002	Agrawal Kushal Manoj			F190430009 9766590070	
263	E	FEE003	Ahire Vinit Manoj	Mrs. Ojaswini K Deshmukh	Batch 01	F190430012 9881937145	Electric Vehicle
264	E	FEE004	Avhad sandip Pandharinath	Wis. Ojaswini K.Deshindkin	Baton of	F190430279 7757945028	
265	E	FEE005	Badhe om Ramdas			F190430022 9850933500	
266	E	FEE006	Belekar Aditi dipak			F190430033 7385080584	
267	E	FEE007	Bhatlawande Dinesh Maruti			F190430084 7666545247	
268	F	FFF008	Bhave Vaishnavi Bhalchandra			F190430043 7588671400	
269	F	FFF009	Bhingade Anushka Navnath	Man Oisswini K Doshmukh	Ratch 02	F190430017 8905336975	Cyber Security And Cyber Attack
270	F	FFF010	Bomble Aniket Natha	Mrs. Ojaswini K.Deshinuki	Datch 02	F190430052 7058232166	Cyber Security And Cyber Allack
271	E	EFEO11	Bora Sarthak Prashant	-		F190430053 9156691101	
272	E	EEE012	Chavan Vaishnavi vogesh	-		F190430062 9637666371	
272	E	ICCE012	Chavan Nandkumar Sambhaii			F190430061 7709462232	
273	2	EEE013	Chavan Gauray Galanan			F190430060 9325398244	
214	E	FEEU14	Chavlan Gaulav Gajanan	Mrs Ojaswini K Deshmukh	Batch 03	F190430065 9970868257	Weather forecasting
2/5	E	FEEUIS	Chavnan Romit Baban			F190430069 7378646309	
2/6	E	FEE016	Choudnary Omesn Franaladiani	-		F190430088 9130599853	
277	E	FEE017	Fernandes Shannon Agrie	-		F190430090 7821010524	
278	E	FEE018	Gadge Sannak Sanjay			F190430092 9604022346	
279	E	FEE019	Gaikwad Anisha Sudhir	Mrs Oisswinik Dochmuth	Batch 04	F190430095 9132404046	Wireless Power Transmission: An Innovative Idea
280	E	FEE020	Gaikwad Mahesh Dhyaneshwar	- Wirs. Ojaswini K.Desninukn	Datch 04	E190430213 9170201273	A ANTERESS FUWER Hanstnission. An Innovative loca
281	E	FEE021	Ghewade Nehal Vishnu			E190430105 022242207	H
282	E	FEE022	Ghode Vaishnav Anil			F190430105 9322422972	
283	E	FEE023	Gigoo Parth Sunil			F190430226 /88/822365	
284	E	FEE024	Hingne Yash Jitendra			F190430115 9607180239	
285	E	FEE025	Jadhav Soham Abhitosh	Mrs. S S Borate	Batch 1	F190430123 932510/129	
286	E	FEE026	Kakade Rohit Suresh			F190430137 /498488803	
287	E	FEE027	Kasar Sakshi Manohar			F190430149 8421602329	
288	E	FEE028	Katore Harshal Shrikant			F190430154 9403401120	

289	E	FEE029	Kumar Madhay Ranjeet	_	1	E190430180	1 9123106320	n
290	E	FEE030	Mane Sham Anil	Mrs S S Borate	Batch 2	F190436	9370319302	Save Water, Save Life
291	E	FEE031	Md Masheerul Haque Md Hassan		Datonz	F190430104	8676993795	
292	E	FEE032	Mukaddam Sufiyan Nawah			F190430202	8482864440	
293	E	FEE033	Nalage Shruti Jalindar			F190430208	8830233499	
294	E	FEE034	Nangare Onkar Uttam			F190430211	8605640263	-
295	E	FEE035	Pardeshi Sanjaysingh Prakash	Mrs S S Borato	Batch 3	F190430226	9156037275	Android task monitoring
296	E	FEE036	Patil Shrutika Ariun	Wills: 0 0 Donate	Daten S	F190430239	9028812152	
297	E	FEE037	Pinjare Davashankar Dilin	-		F190430251	8308729363	
298	E	FEE038	Potdar Shardul Surendra			F190430256	7020345016	
299	E	FEE039	Raiput Hritiksingh Raibalsingh	-		F190430265	9623688410	
300	E	FEE040	Rathod Vansh Bharat	-		F190430269	8600688890	
301	E	FEE041	Rathod Samadhan Gotiram	Mrs. S S Borate	Batch 4	F190430268	9309576899	Hybride Electric Venicle
302	E	FEE042	Romade Abhishek Bhausaheb	-		F190430273	8793819439	
303	E	FEE043	Shelar Rohan Balasaheh			F190430272	9881693070	1
304	E	FEE044	Tambe Sumit shahaii	Prof Shital Ghuge	1	F190430326	7744915223	DESIGN & IMPLEMENTATION OF FIRE ALARM CIRCUIT
305	E	FEE045	Tripathi Prateek Dilin	prof Shital abuge	1	F190430259	7208124621	DESIGN & IMPLEMENTATION OF FIRE ALARM CIRCUIT
306	E	FEE046	Umate Ashish Gunderao	prof. Shital ghuge	1	F190430335	7796316812	DESIGN & IMPLEMENTATION OF FIRE ALARM CIRCUIT
307	E	FEE047	Urade Kaustubh Mahesh	Prof. Shital Ghuge	1	F190430336	9359312570	DESIGN & IMPLEMENTATION OF FIRE ALARM CIRCUIT
308	E	FEE048	Vadnere Bhavesh Govindbhai	prof SHITAL GHUGHE	1	F190430339	8469256551	DESIGN & IMPLEMENTATION OF FIRE ALARM CIRCUIT
309	E	FEE049	Vethekar Prasad Vijav	SHITAL GHUGHE	1	F190430342	9960860982	DESIGN & IMPLEMENTATION OF FIRE ALARM CIRCUIT
310	E	FEE050	Waghmode Shubham Adnyan	Proof Shital Ghuge	2	F190430353	7498988762	E - Authentication System
311	E	FEE051	Agrawal Nikhil Dilip	Prof. Shital Ghuge	2	F190430010	7775960184	E - Authentication System
312	E	FEE052	KOHOK PRASANNA BABASAHEB	Prof Shital Ghuge	2	F190430258	9913113060	E - Authentication System
313	E	FEE053	kachare shraddha kiran	PROF. SHITAL GHUGE	2	F190430132	9322401662	E - Authentication System
314	E	FEE054	Wani Nisarg Sunil	Shital Ghughe	2	F190430355	7558453211	E-Authentication System
315	E	FEE055	Sapkal Shreya Santosh	Prof.Shital Ghuge	3	F190430282	9623234347	Nanotechnology
316	E	FEE056	Jagtap Mrunmayee Sanjay	Prof. Shital Ghuge	3	F190430124	7755964373	Nanotechnology
317	E	FEE057	Patil Roshan Vijay	Prof. Shital Ghuge	3	F190430238	9529390776	Nanotechnology
318	E	FEE058	Chiniwar Amaan Moinoddin	Shital Ghuge	3	F190430067	9637870786	Nanotechnology
319	E	FEE059	Mhalsekar Prathamesh Dinkar	Shital Ghuge	3	F190430192	8857942694	Nanotechnology
320	E	FEE060	Bagale Shubhangath Jitendra	Shital Ghuge	4	F190430023	9322927433	Audio book using python
321	E	FEE061	Pharande Abhishek Anil	Shital Ghuge	4	F190430249	9767297387	Audio book using python
322	E	FEE062	PATIL YASH CHANDRSHEKHAR	SHITAL GHUGE	4	F190430240	8080194685	Audio book using python
323	E	FEE063	Dhapola Subrat Vinod	PROF.SHITAL GHUGE	4	F190430320	6397216878	audio book using python
324	E	FEE064	WAGH SARTHAK SURYAKANT	Prof.Shital Ghuge	4	F190430348	9511640746	Audio book using python
		1						

	TABLE -	1 Firs	t Eng	ginee	ring _	Stru	cture	for S	emest	ter-I				
Course Code	Course Name	Te So (Hou	achi chem rs/W	ng le /eek)	Examination Scheme and Marks					and	Credits			
		Theory	Practical	Tutorial	ISE	ESE	ΤW	PR	OR	Total	ΤH	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	Programming and Problem Solving / Engineering Mechanics	03	02		30	70		25		125	03	01		04
111006	Workshop [@]		02					25		25		01		01
	Total	16	10	01	150	350	25	125		650	16	05	01	22
101007	Audit Course 1 ^{&}	02 Environmental Studies-I												
Inducti	on Program : 2 weeks at	the beginning of semester-I and 1 week at the beginning of semester-II												
	TABLE -2	2 Firs	t Eng	ginee	ring_	Stru	cture	for S	emest	ter-II				
Course Code	Course Name	Te So (Hou	achi chem rs/W	ng ie Veek)	Examination Scheme and Marks				Credits					
				een,			Ma							
		Theory	Practical	Tutorial	ISE	ESE	Ma	PR	OR	Total	HT	PR	TUT	Total
107008	Engineering Mathematics-II	Lheory	Practical	01	ISE 30	ESE 70	M: ML 25	- PR	- OR	Lotal 125	HL 04	PR	LOL 01	Total
107008 107002/ 107009	Engineering Mathematics-II Engineering Physics/ Engineering Chemistry	Lheory	Practical		E 30 30	ESE 70 70	M: M: 25 	H 25	 OR	International Content	HL 04 04	H 01	LOL 01	Lotal
107008 107002/ 107009 103004 / 104010	Engineering Mathematics-II Engineering Physics/ Engineering Chemistry Basic Electrical Engineering / Basic Electronics Engineering	A 04 04 03	 50 20	101 	E 30 30 30	ESE 70 70 70	Ma 25 	2 5	 OR	125 125 125	HL 04 04 03	H 01 01	I 01 	05 04
107008 107002/ 107009 103004 / 104010 110005/ 101011	Engineering Mathematics-II Engineering Physics/ Engineering Chemistry Basic Electrical Engineering / Basic Electronics Engineering Programming and Problem Solving / Engineering Mechanics	Line Line <thlin< th=""> <thline< th=""> <thline< th=""> <thline< td=""><td> 02 02 02</td><td></td><td>E 30 30 30 30</td><td>ESE 70 70 70 70</td><td>Ma 25 </td><td>25 25 25</td><td> OR </td><td>Iz5 125 125 125 125</td><td>HL 04 03 03</td><td>H 01 01 01</td><td>I01 </td><td>Lotal 05 04 04</td></thline<></thline<></thline<></thlin<>	 02 02 02		E 30 30 30 30	ESE 70 70 70 70	Ma 25 	25 25 25	 OR 	Iz 5 125 125 125 125	HL 04 03 03	H 01 01 01	I 01 	Lotal 05 04 04
107008 107002/ 107009 103004 / 104010 110005/ 101011 102012	Engineering Mathematics-II Engineering Physics/ Engineering Chemistry Basic Electrical Engineering / Basic Electronics Engineering Programming and Problem Solving / Engineering Mechanics Engineering Graphics ^Ω	Kioopul 04 04 03 03 01	 02 02 02 02	 01	E 30 30 30 30 30 	70 70 70 70 70 50	Ma 25 2	H 25 25 25 5	 OK	Image: Project state 125 125 125 125 125 125 125	HL 04 04 03 03 01	H 01 01 01 01	LDL 01 1	05 05 04 04 02
107008 107002/ 107009 103004 / 104010 110005/ 101011 102012 110013	Engineering Mathematics-II Engineering Physics/ Engineering Chemistry Basic Electrical Engineering / Basic Electronics Engineering Programming and Problem Solving / Engineering Mechanics Engineering Graphics ^Ω Project Based Learning [§]	04 04 03 03 01 	 02 02 02 02 04	01 01 01 	E 30 30 30 30 30 	70 70 70 70 70 50	Ma 25 225	25 25 25 5 50	 	Image: Project state 125 125 125 125 125 75 75	HL 04 03 03 01 	24 01 01 01 01 02	LDL 01 1 	Lotal 05 05 04 04 02 02
107008 107002/ 107009 103004 / 104010 110005/ 101011 102012 110013	Engineering Mathematics-II Engineering Physics/ Engineering Chemistry Basic Electrical Engineering / Basic Electronics Engineering Programming and Problem Solving / Engineering Mechanics Engineering Graphics ^Ω Project Based Learning [§]	Autom 04 04 03 03 01 15	 02 02 02 02 04 12	01 01 02	E 30 30 30 30 30 120	70 70 70 70 70 50 330	Mi 25 22 25 75	H 25 25 25 5 5 50 125	 	It 125 125 125 125 125 125 125 650	HL 04 04 03 03 01 15	H 01 01 01 01 02 05	Int 01 1 02	Image: Note of the second system 05 05 04 04 02 02 22
107008 107002/ 107009 103004 / 104010 110005/ 101011 102012 110013 101014	Engineering Mathematics-II Engineering Physics/ Engineering Chemistry Basic Electrical Engineering / Basic Electronics Engineering Programming and Problem Solving / Engineering Mechanics Engineering Graphics ^Ω Project Based Learning [§] Total	Kroop 04 04 04 03 03 01 15 02	 02 02 02 02 04 12	01 01 01 02	E 30 30 30 30 30 120	70 70 70 70 70 70 330	Ma 25 25 75 Enviro	25 25 25 5 50 125 0nmer	20 ntal St	Image 125 75 650 udies-	HL 04 04 03 03 01 15 II	H 01 01 01 01 02 05	LDL 01 1 02	Lotal 05 05 04 02 02 22

110005: Programming and Problem Solving								
Teaching Scheme:	Credits	Examination Scheme:						
TH: 03 Hrs/Week	04	In-Semester : 30 Marks						
PR: 02 Hrs/Week		End-Semester : 70 Marks						
		PR : 25 Marks						

Prerequisite Courses, if any: students are expected to have a good understanding of basic computer principles.

Companion Course, if any: Programming and Problem Solving Laboratory (110005)

Course Objectives:

Prime objective is to give students a basic introduction to programming and problem solving with computer language Python. And to introduce students not merely to the coding of computer programs, but to computational thinking, the methodology of computer programming, and the principles of good program design including modularity and encapsulation.

- 1. To understand problem solving, problem solving aspects, programming and to know about various program design tools.
- 2. To learn problem solving with computers
- 3. To learn basics, features and future of Python programming.
- 4. To acquaint with data types, input output statements, decision making, looping and functions in Python
- 5. To learn features of Object Oriented Programming using Python
- 6. To acquaint with the use and benefits of files handling in Python

Following Fields are applicable for courses with companion Laboratory course

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

CO1: Inculcate and apply various skills in problem solving.

CO2: Choose most appropriate programming constructs and features to solve the problems in diversified domains.

CO3: Exhibit the programming skills for the problems those require the writing of well-documented programs including use of the logical constructs of language, Python.

CO4: Demonstrate significant experience with the Python program development environment.

Course Contents

Unit IProblem Solving, Programming and Python Programming (07 Hrs)General Problem Solving Concepts- Problem solving in everyday life, types of problems,problem solving with computers, difficulties with problem solving, problem solving aspects, topdown design. Problem Solving Strategies,

Program Design Tools: Algorithms, Flowcharts and Pseudo-codes, implementation of algorithms. **Basics of Python Programming:** Features of Python, History and Future of Python, Writing and executing Python program, Literal constants, variables and identifiers, Data Types, Input operation, Comments, Reserved words, Indentation, Operators and expressions, Expressions in Python.

Unit IIDecision Control Statements(08 Hrs)Decision Control Statements: Decision control statements, Selection/conditional branchingStatements: if, if-else, nested if, if-elif-else statements. Basic loopStructures/Iterative statements:while loop, for loop, selecting appropriate loop. Nested loops, The break, continue, pass, elsestatement used with loops. Other data types- Tuples, Lists and Dictionary.

Unit I	II Functions and Modules (08 Hrs)
Need 1	for functions, Function: definition, call, variable scope and lifetime, the return statement.
Definit	ng functions, Lambda or anonymous function, documentation string, good programming
practic	es. Introduction to modules, Introduction to packages in Python, Introduction to standard
library	modules.
Unit I	V Strings (07 Hrs)
String	s and Operations- concatenation, appending, multiplication and slicing. Strings are
immut	able, strings formatting operator, built in string methods and functions. Slice operation, ord()
and ch	r() functions, in and not in operators, comparing strings, Iterating strings, the string module.
Unit V	VObject Oriented Programming(08 Hrs)
Progra	mming Paradigms-monolithic, procedural, structured and object oriented, Features of
Object	t oriented programming-classes, objects, methods and message passing, inheritance,
polym	orphism, containership, reusability, delegation, data abstraction and encapsulation.
Classe	s and Objects: classes and objects, class method and self object, class variables and object
variabl	es, public and private members, class methods.
Unit V	TFile Handling and Dictionaries(07 Hrs)
Files:	Introduction, File path, Types of files, Opening and Closing files, Reading and Writing files.
Diction	nary method. Dictionaries- creating, assessing, adding and updating values.
Case S	Study: Study design, features, and use of any recent, popular and efficient system developed
using I	Python. (This topic is to be excluded for theory examination).
Text B	Books:
1.	Reema Thareja, "Python Programming Using Problem Solving Approach", Oxford
	University Press, ISBN 13: 978-0-19-948017-6
2.	R. Nageswara Rao, "Core Python Programming", Dreamtech Press; Second edition ISBN-
	10: 938605230X, ISBN-13: 978-9386052308 ASIN: B07BFSR3LL
Refere	ence Books:
1.	R. G. Dromey, "How to Solve it by Computer", Pearson Education India; 1 st edition, ISBN-
	10: 8131705625, ISBN-13: 978-8131705629 Maureen Spankle, "Problem Solving and
	Programming Concepts", Pearson; 9th edition, ISBN-10: 9780132492645, ISBN-13: 978-
	0132492645
2.	Romano Fabrizio, "Learning Python", Packt Publishing Limited, ISBN: 9781783551712, 1783551712
3.	Paul Barry, "Head First Python- A Brain Friendly Guide", SPD O'Reilly, 2nd Edition, ISBN:978-93-5213-482-3
4.	Martin C. Brown, "Python: The Complete Reference", McGraw Hill Education, ISBN-10: 9789387572942, ISBN-13: 978-9387572942, ASIN: 9387572943
5.	Jeeva Jose, P. Sojan Lal, "Introduction to Computing & Problem Solving with Python".
	Khanna Computer Book Store: First edition, ISBN-10: 9789382609810, ISBN-13: 978-
	9382609810
	Programming and Problem Solving Laboratory
	Guidelines for Instructor's Manual
The in	structor's manual is to be developed as a hands-on resource and reference. The instructor's
manua	1 need to include prologue (about University/program/ institute/ department/foreword/
preface	e etc), copy of curriculum, conduction & Assessment guidelines, topics under consideration-
concer	ot objectives outcomes set of typical applications/assignments/ guidelines and references
concep	Guidelines for Student's Lab Journal
The la	boratory assignments are to be submitted by student in the form of journal Journal consists
of pro	logue Certificate table of contents and handwritten write-up of each assignment (Title
Object	ives Problem Statement Outcomes software & Hardware requirements Date of
Compl	etion Assessment grade/marks and assessor's sign Theory-Concent in brief features of
Compl	each, reseasing frage marks and assessors sign, meory-concept in oner, reatines of

tool/framework/language used, Design, test cases, conclusion. Program codes with sample output of all performed assignments are to be submitted as softcopy.

As a conscious effort and little contribution towards Green IT and environment awareness, attaching printed papers as part of write-ups and program listing to journal may be avoided. Use of DVD containing students programs maintained by lab In-charge is highly encouraged. For reference one or two journals may be maintained with program prints at Laboratory.

Guidelines for Lab /TW Assessment

Continuous assessment of laboratory work is done based on overall performance and lab assignments performance of student. Each lab assignment assessment will assign grade/marks based on parameters with appropriate weightage. Suggested parameters for overall assessment as well as each lab assignment assessment include- timely completion, performance, innovation, efficient codes, punctuality and neatness.

Guidelines for Laboratory Conduction

List of laboratory assignments is provided below for reference. The instructor is expected to frame the assignments by understanding the prerequisites, technological aspects, utility and recent trends related to the topic. The assignment framing policy need to address the average students and inclusive of an element to attract and promote the intelligent students. The instructor may set multiple sets of assignments and distribute among batches of students. It is appreciated if the assignments are based on real world problems/applications. Encourage students for appropriate use of coding style, proper indentation and comments.

Use of open source software and recent version is to be encouraged.

In addition to these, instructor may assign one real life application in the form of a mini-project based on the concepts learned. Instructor may also set one assignment or mini-project that is suitable to respective branch beyond the scope of syllabus.

	Suggested List of Laboratory Experiments/Assignments
	(Any 6 to 8 laboratory assignments)
Sr.	Problem Statement
No.	Write Program in Python (with function/class/file, as applicable)
1.	To calculate salary of an employee given his basic pay (take as input from user). Calculate gross salary of employee. Let HRA be 10 % of basic pay and TA be 5% of basic pay. Let employee pay professional tax as 2% of total salary. Calculate net salary payable after deductions.
2.	To accept an object mass in kilograms and velocity in meters per second and display its momentum. Momentum is calculated as $e=mc^2$ where m is the mass of the object and c is its velocity.
3.	To accept N numbers from user. Compute and display maximum in list, minimum in list, sum and average of numbers.
4.	To accept student's five courses marks and compute his/her result. Student is passing if he/she scores marks equal to and above 40 in each course. If student scores aggregate greater than 75%, then the grade is distinction. If aggregate is $60>=$ and <75 then the grade if first division. If aggregate is $50>=$ and <60 , then the grade is second division. If aggregate is $40>=$ and <50 , then the grade is third division.
5.	To check whether input number is Armstrong number or not. An Armstrong number is an integer with three digits such that the sum of the cubes of its digits is equal to the number itself. Ex. 371.
6.	To simulate simple calculator that performs basic tasks such as addition, subtraction, multiplication and division with special operations like computing x^y and $x!$.

7.	To accept the number and Compute a) square root of number, b) Square of number, c) Cube of number d) check for prime, d) factorial of number e) prime factors
8.	To accept two numbers from user and compute smallest divisor and Greatest Common Divisor of these two numbers.
9.	To accept a number from user and print digits of number in a reverse order.
10.	To input binary number from user and convert it into decimal number.
11.	To generate pseudo random numbers.
12.	To accept list of N integers and partition list into two sub lists even and odd numbers.
13.	To accept the number of terms a finds the sum of <i>sine</i> series.
14.	To accept from user the number of Fibonacci numbers to be generated and print the Fibonacci series.
15.	Write a python program that accepts a string from user and perform following string operations- i. Calculate length of string ii. String reversal iii. Equality check of two strings iii. Check palindrome ii. Check substring
16.	To copy contents of one file to other. While copying a) all full stops are to be replaced with commas b) lower case are to be replaced with upper case c) upper case are to be replaced with lower case.
17.	To count total characters in file, total words in file, total lines in file and frequency of given word in file.
18.	Create class EMPLOYEE for storing details (Name, Designation, gender, Date of Joining and Salary). Define function members to compute a)total number of employees in an organization b) count of male and female employee c) Employee with salary more than 10,000 d) Employee with designation "Asst Manager"
19.	Create class STORE to keep track of Products (Product Code, Name and price). Display menu of all products to user. Generate bill as per order.
	Mini-Projects
20.	Calculator with basic functions. Add more functionality such as graphic user interface and complex calculations.
21.	Program that simulates rolling dice. When the program runs, it will randomly choose a number between 1 and 6 (Or other integer you prefer). Print that number. Request user to roll again. Set the min and max number that dice can show. For the average die, that means a minimum of 1 and a maximum of 6.
	Use raspberry pi/or similar kit and python for-
	Room Temperature Monitoring System
	Motion Detection System
22.	Soil Moisture Sensor
	Home Automation System A robot
	 A robot Smart mirror or a smart clock
	 Smile Detection using Raspberry Pi Camera
23.	Guess Number: Randomly generate a number unknown to the user. The user needs to guess what that number is. If the user's guess is wrong, the program should return some sort of indication as to how wrong (e.g. the number is too high or too low). If the user guesses correctly, a positive indication should appear. Write functions to check if the user input is an actual number, to see the difference between the inputted number and the randomly generated numbers, and to then compare the numbers.

Sinhgad Academy of Engineering, Kondhwa, Pune Department of IT Academic Year :2020-2021

Group		Domain	Guide	
Group	Group members	2011011		Title of the Project
Number	Himanshu Ashok Kadam	ML and AI	Mrs. P.Y.Pawar	Restoration of Document Images.
	Shivorasad Namdey Taware		h in	
	Shagun Rajesh Gujarathi	1.		
1	Chetan Mithilesh Jha			
	Utsay Urphate	Deep Learning	Mr. L.J.Deokate	Devnagari Handwritten Word Recognition Using Deep
	Nilesh Lahade			
	Revati Sayar			
2	Musaddique Shaikh			
	Shubhankar Panda	ML & AI	Ms. D.R.Anekar	Psychotherapist Chalbot
	Papiha Jitendra Nandankar			
	Disha Paresh Sangani			
3	Shoaib Syed Noor		M. C. C. Kulkorni	Secure Data Transmission Lising Cryptography and Steganography
	Fatehraj Suthar	Data Security	Mr.5.5. Kuikarni	Secure Data Transmission Comp Coppension
	Smit Mune	_		
	Kunal Salunke	-		8.5
4	Lokesh Chatur	Blockshain	Dr Mrs KS Thakre	Efficient Monitoring Of Agricultural Supply Chain Using
	Tejasvi Sninde			
	Rajeshwari Valshnav	-		
5	Molissa D'Souza	-		1 N 1
5	Rohan Shingade	Machine Learning	Mr. L.J.Deokate	Threats Prediction in DataSets using ML
	Anuja Kale	1		
	Vikas Shinde		<	
6	Dipali Suryawanshi			
	Radhika Maniyar	Machine Learning &	Mrs. P.Y.Pawar	
	Pratiksha Nirgude	Deep Learning		Completely Automated Captcha Solver
	Bhushan Dawale			
7	Kuldeep Kushwaha			Medical Imaging Lising Deep Learning
	Aditya Nilkanth Varade	Image processing and	Mr.B.S.Gayai	Medical imaging Using Deep Learning
	Isha Kuchnagi	_	- E	
	Nikhil Chaudhari	-		
8	Yash Lokhande	Machina learning and	Ms A N Varade	Alzimer's Disease Prediction Using ML.DL
	Risnikesh Bankar			
	Shruti Chinnawar	-		
٩	Rani Yaday			
5	Praiwal Deshmukh	Cyber security	Dr Mrs K.S. Thakre	Digital India Digital Economy Using BCT
	Vaishnavi Taral			
	Gargi Kulkarni			de la
10	Meezan shaikh	7	1.	
	Abhineet Prakash	IOT and cloud computi	Ms. A.N. Varade	
	Shardul Jagtap	6		Smart Door Security System
	Shruti Analdas	_		
11	Rutuja Kulkarni		ALL AND Marrie	Emotion Record Mond Enhancing Music Recommendation
	Saylee Jagtap	Distributed system and	Ms. A.N. Varade	Emotion Based wood Enhancing wusic Recommendation
	Tilottama Patil	-	5 K	
	Rashmi Katakdound	-		
12	Chaitanya A Kulkarai	Machine learning	Mr S S Kulkarni	
	Namrata Shivadas Thombara			П.
	Speha Shahaii Waohmare	-		
13	Rittwik Dutta	-		Agriculture Analysis using Machine Learning Techniques
10	Ajinkya Kalane	Machine learning and Deep	Mr. B. S. Gayal	
	Adarsh Jadhav			
	Shivshankar Mali			
14	Pratik Sable			Brain tumor detection using cnn
	Sidhant Pardeshi	ют	Mr.A.N.Adapanawa	
	Rajan Mizar	_		
	Akshay Chaugule	-		
15	Amol Datal	Machina Jacmina		Alconol and health monitoring system
	Nikhil Dhande	wachine learning	wr.A.N.Adapanawa	
	Dashang Dhamal	-		
	Dipesh Badgujar	-		Dynamic feature matching for partial face recognition
16	Abhijit Auti	Machine Learning with Edu	Ms D R Anekar	Synamic realists matching for partial face recognition
	and the state of t		Allonal	
	Tushar Choudary			
	Tushar Choudary Roban Chandel	_		
17	Tushar Choudary Rohan Chandel			Presiding Potential Candidates for Private Colleges using LightGB

Project Cordinator

HOD Information Technology

Savitribai Phule Pune University, Pune

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

CE		FC ⁻		s 1
SE	IV/I	FN.	1 6 6	₹-I
	1 1 1	20		<u>v i</u>

		Teaching Scheme			Examination Scheme						
Subject Code	Subject	Lecture	Practical	Tutorial	In-Sem	тw	PR	OR	End-Sem	Total Marks	Credits
414453	Information and Cyber Security	3			30				70	100	3
414454	Machine Learning and Applications	4			30				70	100	4
414455	Software Design and Modeling	3			30				70	100	3
414456	Elective-I	3			30				70	100	3
414457	Elective -II	3			30				70	100	3
414458	<u>Computer</u> Laboratory-VII		4			50	50			100	2
414459	Computer Laboratory-VIII		4			50		50		100	2
414460	Project Phase-I			2				50		50	2
414461	Audit Course-V									G	rade
Total		16	8	2	150	100	50	100	350	750	22
Total of Part-I			26			750					22

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	<u>1. Wireless Communications</u>	414457A	1. Software Defined Networks
414456B	2. Natural Language Processing	414457B	2. Soft Computing
414456C	3. Usability Engineering	414457C	3. Software Testing and Quality Assurance
414456D	4. Multicore and Concurrent	414457D	4. Compiler Construction
	<u>Systems</u>		
414456E	5. Business Analytics and	414457E	5. Gamification
	Intelligence		

	Audit Course-V					
414461A	1. Emotional Intelligence					
414461B	2. Green Computing					
414461C	3. Critical Thinking					
414461D	4. Statistical Learning model using R.					

2015 Course

<u>SEMESTER –II</u>

		Teachir	ng Sch	eme		Examin	ation	Schem	e		
Subject Code	Subject Subject Code		Practical	Tutorial	In-Sem	тw	PR	OR	End- Sem	Total Marks	Credits
414462	Distributed Computing System	3			30				70	100	3
414463	Ubiquitous Computing	3			30				70	100	3
414464	Elective-III	3	2		30	25		25	70	150	4
414465	Elective-IV	3			30				70	100	3
414466	Computer Laboratory-IX		4			50	50			100	2
414467	Computer Laboratory-X		2			25		25		50	1
414468	Project Work			6		50		100		150	6
414469 <u>Audit Course-VI</u>										G	irade
Total		12	8	6	120	150	50	150	280	750	22
Total of Pa		26					750			22	

Abbreviations: TW: Term Work TH: Theory OR: Oral PR: Practical Sem: Semester Computer Laboratory-IX (Distributed Computing System) Computer Laboratory-X (Ubiquitous Computing)

	Elective III		Elective IV
414464A	<u>1. Internet of Things (IoT)</u>	414465A	<u>1. Rural Technologies and</u> <u>Community Development</u>
414464B	2. Information storage and retrieval	414465B	2. Parallel Computing
414464C	3. Multimedia Techniques	414465C	3. Computer Vision
414464D	4. Internet and Web Programming	414464D	4. Social Media Analytics
414464E	5. Computational Optimization	414465E	5. Open Elective

	Audit Course-VI
414469A	1. IoT – Application in Engineering field
414469B	2. Entrepreneurship
414469C	3. Cognitive Computing
414469D	4. AI and Robotics

2015 Course

Savitribai Phule Pune University, Pune

Savitribai Phule Pune University Fourth Year of Information Technology (2015 Course) 414460: Project Phase-I

	414460: Project Phase-I	
Teaching Scheme:	Credits:02	Examination Scheme:
TUT:02 Hours/Week		OR:50 Marks
Duovo mulaitaa		
Prerequisites:		
1. Project Based Seminar.		
Course Objectives:		
1. Student should be able im	plement their ideas/real time	e industrial problem/ current
applications from their engi	neering domain.	
2. Students should be able to	develop plans with help of te	eam members to achieve the
project's goals.		
3. Student should be able to	break work down into tasks	and determine appropriate
procedures.		
4. Student should be able to	o estimate and cost the hu	man and physical resources
required, and make plans to	obtain the necessary resource	
5. Student should be able	allocate roles with clear	lines of responsibility and
6 Student should be able to	m work ethics.	o offectively promote ideas
6. Student should be able to		to effectively promote ideas,
Course Outcomes:		
By the end of the course students	should be able to	
1. To show preparedness to	study independently in cho	osen domain of Information
Technology and programmi	ng languages and apply their a	acquired knowledge to variety
of real time problem scena	rios.	
2. To function effectively as a t	eam to accomplish a desired g	goal.

3. An understanding of professional, ethical, legal, security and social issues and responsibilities related to Information Technology Project.

Contents

Project Based Seminar (PBS) helped students to gather, organize, summarize and interpret technical literature with the purpose of formulating a project proposal in third year. Students had also submitted a technical report summarizing state-of-the-art on an identified domain and topic in third year. B.E. Projects can be application oriented and/or will be based on some innovative/ theoretical work. In Project Phase-I the student will undertake project over the academic year, which will involve the analysis, design of a system or sub system in the area identified earlier in the field of Information Technology and Computer Science and Engineering. In some cases; if earlier identified project is not feasible; a new topic must be formulated in consultation with the guide and project coordinator. The project will be undertaken preferably by a group of 3-4 students who will jointly work and Implement the project. The group will select a project which is based on seminar delivered in relevant domain in Project based Seminar activity with approval from a committee formed by the department of senior faculty to check the feasibility and approve the topic.

Guidelines for Students and Faculty

- The Head of the department/Project coordinator shall constitute a review committee for project group; project guide would be one member of that committee by default.
- There shall be two reviews in Project phase –I in semester-I by the review committee.
- The Project Review committee will be responsible for evaluating the timely progress of the projects.
- As far as possible Students should finalize the same project title taken for Project Based Seminar (PBS).
- Student should Identify Project of enough complexity, which has at least 4-5 major functionalities
- Student should identify stakeholders, actors and write detail problem statement for system
- Review committee should revisit "Feasibility Review" conducted by Examiners during Oral examination in Third year in first week after commencement of the term.
- Review committee should finalize the scope of the project.
- If change in project topic is unavoidable then the students should complete the process of
- Project approval by submitting synopsis along with the review of important papers. This new
- Project topic should be approved by review committee.
- The students or project group shall make presentation on the progress made by them before the committee.
- The record of the remarks/suggestions of the review committee should be properly maintained and should be made available at the time of examination.
- Each student/group is required to give presentation as part of review for 10 to 15 minutes followed by a detailed discussion.
- Students should Revisit and Reassess the problem statement mentioned in the projectbased seminar activity.

Review 1: Synopsis -

Deliverables:

- 1. The precise problem statement/title based on literature survey and feasibility study.
- 2. Purpose, objectives and scope of the project.
- 3. List of required hardware, software or other equipment for executing the project, test Environment/tools, cost and human efforts in hours.
- 4. System overview- proposed system and proposed outcomes.
- 5. Architecture and initial phase of design (DFD).
- 6. Project plan 1.0.

Review 2: SRS -

Deliverables:

- 1. SRS and High level design
- 2. Detail architecture/System design/algorithms/techniques
- 3. At least 30-40% coding documentation with at least 3 to 4 working modules
- 4. Test Results
- 5. Project plan 2.0

B.E. (Information Technology) Syllabus

2015 Course

One paper should be published in reputed International conference/International journal based on project work done.

Project report contains the details as Follows:

Contents List of Abbreviations

List of Figures

List of Graphs List of Tables

- - 1. Introduction and aims/motivation and objectives
 - 2. Literature Survey
 - 3. Problem Statement/definition
 - 4. Project Requirement specification
 - 5. Systems Proposed Architecture
 - 6. High level design of the project(DFD/UML)
 - 7. System implementation-code documentation-algorithm, methodologies, protocols used.
 - 8. GUI/Working modules/Experimental Results
 - 9. Project Plan
 - 10. Conclusions
 - 11. Bibliography in IEEE format

Appendices

- A. Plagiarism Report of Paper and Project report from any open source tool
- B. Base Paper(s)
- C. Tools used
- D. Papers Published/Certificates
- Use appropriate plagiarism tools, reference managers, Latex Lyx/latest Word for efficient and effective project writing.

Term Work:

The term work will consist of a report and presentation prepared by the student on the project allotted to them.

Reference Books

- 1. UML2 Bible by Tom Pender, Wiley India Pvt. Limited 2011
- 2. Applying UML and Patterns Second Edition by Craig Larman, Pearson Education
- 3. UML 2 and the Unified Process, Second Edition, JIM Arlow, Ila Neustadt, Pearson
- 4. Design Patterns: Elements of Reusable Object Oriented Software, Erich Gamma, Pearson
- 5. Design Patterns in Java Second Edition by Steven John Metsker, Pearson

All the assignments should be conducted on Latest version of Open Source Operating Systems, tools and Multi-core CPU supporting Virtualization and Multi-Threading

Savitribai Phule Pune University, Pune

Cont	tribai Dhula Duna University	
Savi	tribal Phule Pune University	
Fourth Year of	Information Technology (201	5 Course)
	414468: Project Work	
Teaching Schemer	CrediterOC	Eveningtion Schemes
	Creatts:06	Examination Scheme:
TUT:06 Hours/ week		IW:50 Marks
Proreguisitos		
1 DE Droiest Dhose L. Compat		
BE-Project Phase I – Semest Project Based Seminar	er I.	
2. Project Based Seminar.		
Course Objectives:		
 The object of Project Work the investigative study take or involving both theoretic from the Department a laboratory/Industry. 	II & Dissertation is to enable n up under Project stage 1, ei al and practical work, under one or jointly with a Su	the student to extend further ther fully theoretical/practical the guidance of a Supervisor pervisor drawn from R&D
 To expose students to pro state of art technologies. 	duct development cycle using	industrial experience, use of
 To encourage and expose presentation activities and 	students for participation in funding agency for sponsored	National/International paper projects.
 Exposure to Learning and papers and anticipation in r 	knowledge access technique esearch activities.	s using Conferences, Journal
5. Evaluate the various validation	tion and verification methods.	
 Analyzing professional issu computing projects. 	ies, including ethical, legal ar	nd security issues, related to
Course Outcomes:		
By the end of the course, Students	will be able to	
1. Learn teamwork.		
2. Be well aware about Impler	nentation phase.	
3. Get exposure of various typ	es of testing methods and tool	S.
4. Understand the Importance	of documentation.	
Review 3:	contents	
Based on Implementation (50% imp	plementation expected)	
Review 4:		
Complete Project and Testing		
All the groups should try to overco	me all the lacunas identified b	y the external examiner
during Project Phase I exam		
The group will submit following at a	the end of semester II.	
1. The Workable project.		
 Project report (in Latex/Lyx, respect – 1 copy for the Inst group for certification. 	/latest Word) in the form of bo titute, 1 copy for guide and 1 c	ound journal complete in all opy of each student in the
The project report contains the det	ails.	

B.E. (Information Technology) Syllabus

2015 Course

Savitribai Phule Pune University, Pune

- 1. Problem definition
- 2. Requirement specification
- 3. System design details (UML diagrams)
- 4. System implementation code documentation dataflow diagrams/ algorithm, protocols used.
- 5. Test result and procedure test report as per ATP.
- 6. Conclusions.
- 7. Appendix
 - a. Tools used
 - b. References
 - c. Papers published/certificates
 - d. Plagiarism Report of paper and project report from any open source tool

One paper should be published in reputed International conference/International.

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Ajinkyadhame	DattatrayLahuKamble	Mayur Vijay Patil	Ganesh DaryajiKad	KetanTulshidasNanaware	Abhishek SomnathBulbule.	Abhishek Sham Jadhav.	Ganesh Shankar Gore.	KalyanAshrubaBatule.	Autade Prasad Tujaram	Autade lejas Raju	KarbhariSwapnilSubhash	KarbhariShrikantSubhash	Vishal GokuldasBambole	PratapKashinathKhedekar	Prasad Sunil Sarode	Nikhii Ramesh Morankar	Bhushan Hemani Zunjarrao	Vikas Vilas Suryavanshi	Ankit ShashikantKapade	Krushna Mohan Patil	Punjabi Ayush Jayant	Shah AshayGautam	SolunkeLalitIshwar	Rohan AkhleshwarSarswat	Kaushik Dhanawade	VishveshwarUmakantKolte	DevanshBhuvan Sharma	Tejas Vinod Kulkarni	Sanap Satish Chintaman	PiseSourabh Ramesh	ChaudhariRohit Nitin	ShelarSwapnilDattatraya.	Student	Name of		DEPARTMENT (Proj
		using alternative fuel	Vibration analysis of ClEngine				Electromagnetic Braking System				avoiding system for four wheeler.	Over speed Indication and automatic accident			Engine by Using Alternate Fuel	Analysis of Vibration And Noise In Diesel			air impingement on epoxy bounded heat sink	Experimental investigation of inclined multi jet				Energy Conservation with Custom Muffler			Design and optimisation of three wheeler brake pedal		i uroulators/inserts in rieat Exchangers.	Enhancement Oshig Customised King	Enhancement Heing Customicad Ding	Experimental Invectination and Heat Transfer		Project Title		OF MECHANICAL ENGINEERING et Details (2020-2021)
	Prof.R J Gawande				Prof K C Salunkhe				Prof M Rampure				Prof.R.J.Gawande				Prof. S. S. Vasekar				DR S R Patil							the second s	Prof. R.D.Agham				Guide name			

SINHGAD ACADEMEY OF ENGINEERING, KONDHWA(BK)

Sinhgad Technical Education Society's

		Shashank P. Dashpute	
		Shinde Abhishek Hemantkumar	
	<i>3</i> -Wheeler Fender	Pawar Ajaydada Sambhajirao	;
	Design and Optimization of	Pawar Aditya Vikas	7
		Papal Omkar Vikas	
Prof V II Chanka		Kurhade Aadesh Govind	
	Automatic Drainage Cleaning System	HarakSanket Kailas	
		Danai Anand Dhananjay	16
		Borade Pratik Prasad	
Prof R R Patil		PRASHANT TANWAR	
	CARRYING AIRCRAFT	MANISH SINGH	
	REMOTELY CONTROLLED PAYLOAD	SUDHANSHU MANI TRIPATHI	5
ADUDDES		SHASHANK TIWARI	
Prof. N. P. Jadhav		Kartik Mehta	
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	billet conveyor system	YashPanchal	t
	Design and analysis of	Almataz Mohammad Ashraf	
		AiqazChandankeri	
Dr A P Kalme		AnantBalwantDeshmukh	
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		. Kaushik Deepak Gokhale	12
	Non-linear analysis of crash box using	Mahesh Sanjay Dhumal	
		RutwijKulkarni	
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	Design and Manufacturingof	Shankari Bade	=
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		AmitSandbhor	
	System forCNG fueled Heavy Vehicles	AanshSinghania	
	Selection and Optimization of an After Treatment	TanishqMedane	ō
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	Air conditioning system is an	AkshayDarvesh	
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	Ontimization of connecting Rod	Hussain Merchant	2
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		Devanand Kale	
Dr. P.M.Sonawane		PranavRajurkar	
		KunalRaut	J
		Deepak Sonawane	3
	Design and Fabrication of river cleaning Machine	AbhijitPisal	
DR S R Patil		SwarajPawar	
		Sameer Zadate	
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	Evacuated Tube Collector Based Dryer	AkashChavan	
Prof.M.Rampure		ShasahnkBhokare	
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		RohitShendge	
	Universal Job handling automated benchvice	Ganesh Patil	
Prof S. S. Vasekar		OmkarNavate	
		RutwikMune	Z
	system	ChetnaMahale	ы О
	Design and Development of Perimeter disk brake	AmolKolhe	
Prof V. Ramanathan		SwarajPawar	
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	Designing a system to separate oil from water in casi	Nikhil Surkar	20
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		Hemant Nehete
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	Design and Fabrication of fatigue testing	Neel Patil
Prof. V. Ramanathan		Omkar Kadam
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	Smart phone using electronic communication	Manali Kandhare
Prof P S Rade		Vinayak Chikkali
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		43 Rupesh Patil
	Vertical Axis Wind Turbine	Mayur Katkar
Prof M Rampure		RohitKamat
	mm v groove 45 degree angle	Preet Bhandar
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Dr. V.K. Dhummansure		VishwajitNagulkar
	 Design and fabrication of Air filter cleaning machine 	PavanMohinkar
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Pneumatically operated multipoint Lubricating Gun	PEDAL OPERATED HACKSAW MACHINE	Solar Water Trash Collector Design And development Of Corn Reaper machine	Carbon particles sepration in exhaust gases	Design and fabrication of garlic peeling machine	Automatic tyre pressure inflation system	Car Ignition key operated Handbreak	Managing measuring devices data using aurdino	"DESIGN AND OPTIMIZATION OF SHELL AND TUBE HEAT EXCHANGERS"	comportents
Prof S.S.YEVALE	Prof M Rampure	Dr. A.P.Kalmegh	Prof R. B. Patil	Prof. N. P. Jadhav	Prof M Rampure	Prof M Rampure		Prof. S. S. Vasekar	Dr. A.J.Rajguru



Savitribai Phule Pune University

Cala	Subject	Teaching Scheme Hrs / week			Examination Scheme				Total	Cre	dits	
Code		Lecture	Tut	Pract	In Sem	End Sem	TW	PR	OR	Marks	Theory	TW/ Pr/OR
402041	Hydraulics and Pneumatics	3	-	2	30	70	25	-	25	150	3	1
402042	CAD CAM Automation	3	-	2	30	70	25	50	-	175	3	1
402043	Dynamics of Machinery	4	-	2	30	70	25	-	25	150	4	1
402044	Elective-I	3	-	2	30	70	25	-	-	125	3	1
402045	Elective-II	3	-	-	30	70	-	-	-	100	3	-
402046	Project-I	-	-	4	-	-	25	-	25	50	-	2
	Total	al 16	16 - 12	12	150	350	125	125 50	75	750	16	6
Totai		10									22	

B. E. (Mechanical) (2015 Course) Semester – I

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

Codo	Subject	Teaching Scheme Hrs / week			Examination Scheme				Total	Cre	edits	
Code		Lecture	Tut	Pract	In Sem	End Sem	TW	PR	OR	Marks	Theory	TW/ Pr/OR
402047	Energy Engineering	3	-	2	30	70	25	-	25	150	3	1
402048	Mechanical System Design	4	-	2	30 (1.5 Hrs)	70 (3 Hrs)	25	-	50	175	4	1
402049	Elective-III	3	-	2	30	70	25	-	-	125	3	1
402050	Elective-IV	3	-	-	30	70	-	-	-	100	3	-
402051	Project-II	-	-	12	-	-	100	-	100	200	-	6
Total		13	-	18	120	280	175	-	175	750	13	9 2

	Elective – I	Elective – II		
Code	Subject	Code	Subject	
402044 A	Finite Element Analysis	402045 A	Automobile Engineering	
402044 B	Computational Fluid Dynamics	402045 B	Operation Research	
402044 C	Heating Ventilation and Air Conditioning	402045 C	Energy Audit and Management	
		402045 D	Open Elective**	

	Elective – III	Elective – IV		
402049 A	Tribology	402050 A	Advanced Manufacturing Processes	
402049 B	Industrial Engineering	402050 B	Solar & Wind Energy	
402049 C	Robotics	402050 C	Product Design and Development	
		402050 D	Open Elective**	

Savitribai Phule Pune University Final Year of Mechanical Engineering (2015 Course)

Course Code: 402046

Course Name : Project – I

Teaching Scheme:		Credits			Examination Sche			
Theory	:	ТН	:	Theory	In-Sem	:	PR :	:
Practical	: 04 hrs per week	TW	: 02		End-Sem	:	OR :	: 25
				-			TW	: 25

Course Objectives:

- To have ideology of the industrial project.
- Hands on working with tools, tackles and machines
- To carry out literature survey
- To do brain storming for mechanical engineering system

Course Outcomes:

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

- Find out the gap between existing mechanical systems and develop new creative new mechanical system.
- Learn about the literature review
- Get the experience to handle various tools, tackles and machines.

Course Contents

INSTRUCTIONS FOR PROJECT REPORT WRITING (Project Stage I)

It is important that the procedures listed below be carefully followed by all the students of B.E. (Mechanical Engineering).

- 1. Prepare *Three Spiral Bound Copies* of your manuscript.
- 2. Limit your Project Stage I to 25–30 pages (preferably)
- The *footer must include* the following: Institute Name, B.E. (Mechanical) Times New Roman 10 pt. and centrally aligned.
- 4. Page number as second line of footer, Times New Roman 10 pt. centrally aligned.
- 5. Print the manuscript using
 - a) Letter quality computer printing.
 - b) The main part of manuscript should be Times New Roman 12 pt. with alignment justified.
 - c) Use 1.5 line spacing.
 - d) Entire report shall be of 5-7 chapters
- 6. Use the paper size 8.5'' \times 11'' or A4 (210 \times 197 mm). Please follow the margins given below.

Margin Location	Paper 8.5" × 11"	Paper A4 (210 × 197 mm)
Тор	1"	25.4 mm
Left	1.5"	37 mm
Bottom	1.25"	32 mm
Right	1"	25.4 mm

Faculty of Science and Technology

- 7. All paragraphs will be *1.5 lines spaced with a one blank line between each paragraph*. Each paragraph will begin with *without any indentation*.
- 8. Section titles should be bold with 14 pt. typed in all capital letters and should be left aligned.
- 9. *Sub-Section headings* should be aligning at the left with *12 pt.* bold and Title Case (the first letter of each word is to be capitalized).
- 10. Illustrations (charts, drawings, photographs, figures) are to be in the text. Use only illustrations really pertinent to the text. Illustrations must be sharp, clear, black and white. Illustrations downloaded from internet are not acceptable.
 - a) Illustrations should not be more than two per page. One could be ideal
 - b) Figure No. and Title at bottom with 12 pt.
 - c) Table No. and Title at top with 12 pt.
 - d) Legends below the title in 10 pt.
 - e) Leave proper margin in all sides
 - f) Illustrations as far as possible should not be photo copied.
- 11. Photographs if any should be of glossy prints
- 12. Please use SI system of units only.
- 13. Please number the pages on the front side, centrally below the footer
- 14. References should be either in order as they appear in the thesis or in alphabetical order by last name of first author
- 15. Symbols and notations if any should be included in nomenclature section only
- 16. Following will be the order of report
 - i. Cover page and Front page (as per the specimen on separate sheet)
 - ii. Certificate from the Institute (as per the specimen on separate sheet)
 - iii. Acknowledgements
 - iv. Contents
 - v. List of Figures
 - vi. List of Tables
 - vii. Nomenclature
 - viii. Abstract (A brief abstract of the report not more than 150 words. The heading of abstract i.e. word "Abstract" should be bold, Times New Roman, 12 pt. and should be typed at the center. The contents of abstract should be typed on new line without space between heading and contents. Try to include one or two sentences each on motive, method, key-results and conclusions in Abstract
 - 1. Introduction (2-3 pages) (TNR 14 Bold)
 - 1.1 Problem statement (TNR 12)
 - 1.2 Objectives
 - 1.3 Scope
 - 1.4 Methodology
 - 1.5 Organization of Dissertation
 - 2. Literature Review (12-16 pages)

Discuss the work done so far by researchers in the domain area and their significant conclusions. No derivations, figures, tables, graphs are expected.

- **3.** This chapter shall be based on your own simulation work (Analytical/ Numerical/FEM/CFD) (8 - 12 pages)
- 4. Experimental Validation This chapter shall be based on your own experimental work

(2 - 3 pages)

- 5. Concluding Remarks and Scope for the Future Work (1 2 pages) (*IF above Chapters 3, 4, 5 not completed please mention the plan for the same and time period for completion and detail activity chart*). References ANNEXURE (if any) (Put all mathematical derivations, Simulation program as Annexure)
- 17. All section headings and subheadings should be numbered. For sections use numbers 1, 2, 3, and for subheadings 1.1, 1.2, etc and section subheadings 2.1.1, 2.1.2, etc.
- 18. References should be given in the body of the text and well spread. No verbatim copy or excessive text from only one or two references. If figures and tables are taken from any reference then indicate source / citatation of it. Please follow the following procedure for references

<u>Reference Books</u> :

Collier, G. J. and Thome, J. R., Convective boiling and condensation, 3rd ed., Oxford University Press, UK, 1996, pp. 110 – 112.

Papers from Journal or Transactions :

Jung, D. S. and Radermacher, R., Transport properties and surface tension of pure and mixed refrigerants, *ASHRAE Trans*, 1991, 97 (1), pp. 90 – 98.

Bansal, P. K., Rupasinghe, A. S. and Jain, A. S., An empirical correction for sizing capillary tubes, *Int. Journal of Refrigeration*, 1996, 19 (8), pp.497 – 505.

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<u>Reports, Handbooks etc.</u> :

United Nations Environmental Programme, Report of the Refrigeration, Air Conditioning and Heat Pumps, Technical Option Committee, 2002, Assessment - 2002. ASHRAE Handbook: Refrigeration, 1994 (Chapter 44)

<u>Patent</u>: Patent no, Country (in parenthesis), date of application, title, year.

Internet :

www.(Site) [Give full length URL] accessed on date

Savitribai Phule Pune University Final Year of Mechanical Engineering (2015 Course)

Course Code: 402051

Course Name : Project – II

Teaching Scheme:		Credits			Examination Scheme				
Theory	:	ТН	:	Theory	In-Sem	:	PR	:	
Practical	: 12 hrs per week	TW	: 06		End-Sem	:	OR	: 100	
				-			ТW	: 100	

Course Contents

INSTRUCTIONS FOR PROJECT REPORT WRITING

It is important that the procedures listed below be carefully followed by all the students of B.E. (Mechanical Engineering).

- 1. Prepare *Three Hard Bound Copies* of your manuscript.
- 2. Limit your Dissertation report to 80–120 pages (preferably)
- 3. The *footer must include* the following:

Institute Name, B.E. (Mechanical) Times New Roman 10 pt. and centrally aligned.

- 4. Page number as second line of footer, Times New Roman 10 pt. centrally aligned.
- 5. Print the manuscript using
 - a) Letter quality computer printing.
 - b) The main part of manuscript should be Times New Roman 12 pt. with alignment justified.
 - c) Use 1.5 line spacing.
 - d) Entire report shall be of 5-7 chapters
- 6. Use the paper size 8.5'' \times 11'' or A4 (210 \times 197 mm). Please follow the margins given below.

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Bottom	1.25"	32 mm
Right	1"	25.4mm

- 7. All paragraphs will be 1.5 lines spaced with a one blank line between each paragraph. Each paragraph will begin with without any indentation.
- 8. Section titles should be bold with 14 pt. typed in all capital letters and should be left aligned.
- 9. Sub-Section headings should be aligning at the left with 12 pt. bold and Title Case (the first letter of each word is to be capitalized).
- 10. Illustrations (charts, drawings, photographs, figures) are to be in the text. Use only illustrations really pertinent to the text. Illustrations must be sharp, clear, black and white. Illustrations downloaded from internet are not acceptable.
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 - vi. List of Tables
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 - 1.1 Problem statement (TNR 12)
 - 1.2 Objectives
 - 1.3 Scope
 - 1.4 Methodology
 - 1.5 Organization of Dissertation
 - 2. Literature Review (20-30 pages)

Discuss the work done so far by researchers in the domain area and their significant conclusions. No derivations, figures, tables, graphs are expected.

- **3.** This chapter shall be based on your own simulation work (Analytical/ Numerical/FEM/CFD) (15- 20 pages)
- Experimental Validation This chapter shall be based on your own experimental work (15-20 pages)
- Concluding Remarks and Scope for the Future Work (2-3 pages) References ANNEXURE (if any) (Put all mathematical derivations, Simulation program as Annexure)
- 17. All section headings and subheadings should be numbered. For sections use numbers 1, 2, 3, ... and for subheadings 1.1, 1.2, etc and section subheadings 2.1.1, 2.1.2, etc.
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Bansal, P. K., Rupasinghe, A. S. and Jain, A. S., An empirical correction for sizing capillary tubes, *Int. Journal of Refrigeration*, 1996, 19 (8), pp.497 – 505.

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United Nations Environmental Programme, Report of the Refrigeration, Air Conditioning and Heat Pumps, Technical Option Committee, 2002, Assessment - 2002. ASHRAE Handbook: Refrigeration, 1994 (Chapter 44)

<u>Patent</u> :

Patent no, Country (in parenthesis), date of application, title, year.

<u>Internet</u> :

www.(Site) [Give full length URL] accessed on date