D. P. Bhosale College, Koregaon

Department of Mathematics

Skill Based Course in Scilab

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Report

As the department always strives for the best, taking into consideration the need of the computer and job opportunity Department of Mathematics ran the Skill Based Course entitled 'Scilab' in academic year 2019-20.

The department has designed this course. It has its own Board of Studies (BoS). All the faculty members took active participation in running the said course. The course started from December 2019 and completed at March 2020. The 16 students enrolled to this course. The examination was conducted on 23rd March, 2020.

The present faculty of the department teaches this course as well. In addition to it the exam is taken and the certificates are issued to the students. Students are benefitted through this course.

Sr. No.	Year	No. of beneficiary students
1	2019-20	16

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Notice

Date: 16/12/2019

All students of B.Sc. III (Mathematics) are here by informed that Department of Mathematics going to organize your skill based course in Scilab has been scheduled from 21st December 2019 to March 2020, remain present at prescribed time in lecture hall.



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Skill Based Course in Scilab

Objectives and Outcome of the course

Objectives of the course:

- 1) To understand the fundamentals of Scilab.
- 2) To give working knowledge of Scilab typesetting language.
- 3) Students should use Scilab files to define documents class and layout options.
- 4) To understand graphical representation of mathematical functions.
- 5) To introduce basic concepts of scientific programming using Scilab.

Outcome of the course:

- 1) Understanding the basic knowledge of Scilab programming.
- 2) Understand the features of the Scilab programming
- 3) To learn access data base through java programs.
- 4) Student will get depth knowledge about computer technology.

Reference Books:-

- 1) R. R. Goldberg, Methods of Real Analysis, Oxford & IBH publishing Co. Pvt. Ltd., Fourth Edition 2016.
- 2) Sandeep nagar, Apress; introduction of scilab for engineering and scientists

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Skill Based Course in Scilab

Course Particulars

Eligibility : XII std. pass.
 Duration of Course : 3 Months.

3. No. of Students : 16

4. Examination : Written Exam (50 marks)

Practical Exam (50 marks)

5. Faculty : 1. Mrs. A.S. Salunkhe (Co-ordinator)

2. Miss. S. G. Mane

6. Coordinator : Head, Dept. of Mathematics

D. P. Bhosale College, Koregaon.

7. Board of Studies : 1. Mrs. Salunkhe A.S. (Co-ordinator)

Dr. Yadav J.D.(S.G. M. College, Karad)
 Mr. Patil S .A. (S.G.M. College, Karad)

8. Experts Name : 1. Dr. Yadav J. D. (S. G. M. College, Karad)

2. Mr. Patil S.A. (S.G.M. College, Karad)

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Skill Based Course in Scilab

Syllabus

Sr.No.	Unit	Theory	Practical	Total period
1.	Introduction: Application, feature, scilabs environment workspace, working directory, Scilab as a calculate, mathematical predefined functions, constants, variables and their types	01	02	03
2.	Matrix: Rows matrix, column matrix, general matrix, operation on matrix addition, subtraction, product. Accessing element of matrix: Size of matrix, Length of matrix, accessing element using one index, two indices.	02	02	04
4.	Sub Matrix: Accessing sub matrix of given matrix using ':' operator & '\$' operator.	01	02	03
5	Advanced matrix operations: Matrix functions: eye(), zero(), ones(), empty matrix, element-wise operation, determinant, inverse, trace of matrix & diagonal element of matrix.	02	02	04
6	Polynomial: Creating a polynomial 1) using roots 2) using coefficients, roos of polynomial, derivative companion matrix, numerator & denominator of rational, simplifying	02	02	04

7	Plotting graph: Creating graphs of simple functions. Introduction Scilab programming: disp (), Boolean operators, conditional statement (if select), find() and () or (), looping statement.	02	02	04
8	Numerical method to find roots of given function: a) Bisection method b) Newton- Raphson method	01	02	03
9	Numerical Methods for solution of Ordinary Differential Equations: (a) Euler Method (b) Euler's Modified Method	02	03	05

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Time Table

Time Table (Dec.2019 to Mar.2020)

Theory and Practical (Per week)

TIME	MON.	TUE.	WED.	THU.	FRI.	SAT.
		TH	EORY	E 3	>	
9.30-10.30 a.m.	S.G.M.	S.A.S.				
		PRAC	CTICAL			
4.23 – 6.00 p.m.	S.G.M.	S.A.S				

1. S.A.S. - Mrs. Salunkhe A.S.

2. S.G.M - Miss. Mane S.G.

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Mrs. A.S Salunkhe explain about Scilab dated on 13/01/2020





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Department of Mathematics

Skill Based Course in Scilab

Roll Call

(Dec.2019 to Mar.2020)

Sr. No.	Name of the Students
1	Ghadage Snehal Sanjay
2	Ghorpade Pooja Mahadev
3	Gole Ankita Hanmant
4	Gole Madhavi Sunil
5	Jadhav Pradnya Jagannath
6	Jadhav Rutuja Sanjay
7	Koli Pooja Ashok
8	Kshirsagar Ashwini Dattatray
9	Mane Madhuri Ashok
10	Pandhare Darshana Subhash
11	Pawar Divya Vitthal
12	Pawar Vishvajeet Dadaso
13	Potekar Varsha Vitthal
14	Sakunde Shweta Santosh
15	Shinde Rutuja Rajendra
16	Yewale Akshada Dilip



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Skill Based Course in Scilab

Examination Notice

Students of short term course of 'Scilab Programming' are hereby informed that their examination (Theory and Practical) will be conducted in month of 23 rd March, 2020. The Dates and time table are as follows.

Examination	Subject.	Date	Time
Theory	Scilab Programming	23/03/2020	11.00 a.m. to 1.00 p.m.
Practical	Scilab Programming	23/03/2022	02.00 p.m. onwards.

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Date- 11/03/2020 Time-12 to 1pm Marks-50 **Instructions: 1) All questions are compulsory and equal marks** 2) Figures to write indicate full marks. Q.1) Write a Scilab Program on Euler's Method. (15)OR Q.1) Write a Scilab Program on Euler's Modified Method. OR Q.2) Define various loop Statements and give its proper syntax (15)OR Q.2) Write a scilab program on Bisection Method. Q.3) Write a scilab program on Newton-Raphson Method (10)OR Q.3) Find A*B using scilab: A=[1 2 3], B= [3 4 5;5 6 7;6 7 8] Q.4) Write a short note on: (10)a) Return Statement b) While loop OR Q.4) Solve the following questions using scilab a) Add two matrices given below: A = [1,2,3;4,5,6] and B = [4,5,6;7,6,5]

b) Define a polynomial in terms of its coefficients using proper command. [Take (6,-5,1) as coefficients]

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Skill Based Course in Scilab

Mark-Sheet

Sr.No	Name of Student	Marks Theory out of 50	Marks Practical out of 50	Total out of 100	Grade
1	Ghadage Snehal Sanjay	32	48	80	A+
2	Ghorpade Pooja Mahadev	20	40	60	В
3	Gole Ankita Hanmant	32	48	80	A+
4	Gole Madhavi Sunil	34	48	82	A+
5	Jadhav Pradnya Jagannath	33	48	81	A+
6	Jadhav Rutuja Sanjay	35	49	84	A+
7	Koli Pooja Ashok	28	42	70	A
8	Kshirsagar Ashwini Dattatray	24	41	65	В
9	Mane Madhuri Ashok	28	40	68	В
10	Pandhare Darshana Subhash	20	48	68	В
11	Pawar Divya Vitthal	31	49	80	A+
12	Pawar Vishvajeet Dadaso	32	48	80	A+
13	Potekar Varsha Vitthal	AB	AB	AB	AB
14	Sakunde Shweta Santosh	32	42	74	A
15	Shinde Rutuja Rajendra	18	40	58	В
16	Yewale Akshada Dilip	33	48	81	A+

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Skill Based Course in Scilab

B.Sc. III

Sr. No.	Roll No.	Name of the Student	21/2/2019	31/12/2019	9/12/2019	10/12/2019	16/12/2019	17/12/2019
1	3681	Ghadage Snehal Sanjay	Chadage	Chadage		Chadas	Chadge	
2	3682	Ghorpade Pooja Mahadev	Paria	Poje	Poojs	Poise	Pouja (Pg019
3	3683	Gole Ankita Hanmant	DGole	AGole	A) Gole	A Gole	(A) Gole	(A) Gole
4	3684	Gole Madhavi Sunil	Pale	Grale	Gole	Grade	Grote	Gode
5	3685	Jadhav Pradnya Jagannath	p.5.500la	Posedha	- pair	P.J.Jahn	gowhav	79. Jahr
,6	3686	Jadhav Rutuja Sanjay	Bradhow	Bashan	Ryanha		Ryadhan	
7	3687	Koli Pooja Ashok	Roli	Rali	Roli	Roli	Roli	Rol:
8	3688	Kshirsagar Ashwini Dattatray	KAD	KAD	KAD	KA:D	KAD	K-AI
9	3689	Mane Madhuri Ashok	raman	Monar	roman	(Inom	monane	Common
10	3690	Pandhare Darshana Subhash	DSP		DSP.	PSP	PSP.	PS. P.
11	3691	Pawar Divya Vitthal	DVPawar	DVPawar		DV Pawar	DyPawar	
12	3,692	Pawar Vishvajeet Dadaso	Pauro	Pours	Russis	Precers	Pauso	Mawo
13	3693	Potekar Varsha Vitthal	Ojeno	Debux (Pelas	Poleba	Polelan	Pjelor
14	3694	Sakunde Shweta Santosh	88 skurde	SSaleuro	28 dende	Salend	Slaken	
15	3695	Shinde Rutuja Rajendra	e Shinde	P.Shinde	Dshind	e	Eshind	O Shine
16	3696	Yewale Akshada Dilip	Ayoute	A james	Dece	Hand	Apendo	Ha



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D. P. Bhosale College, Koregaon

Department of Mathematics

Skill Based Course in Scilab

B.Sc. III

Sr. No.	Roll No.	Name of the Student	23/2/2019	24/12/2019	80/12/2012	alla 200	6/1/2020	1/1/2021
1	3681	Ghadage Snehal Sanjay	Chadage	Charage		Chadage	. 1	Chade
2	3682	Ghorpade Pooja Mahadev	Roja	Rosa	P0019	Poola	Pooja	Boja
3	3683	Gole Ankita Hanmant	AGole	AGole	AGole	AGole	Doole	QGole
4	3684	Gole Madhavi Sunil	Gole	Grove	God	Gode	Gode	Gree
5	3685	Jadhav Pradnya Jagannath	93.5adra	3.2.2apm		9.7 Jahr	PJ. Jada	
6	3686	Jadhav Rutuja Sanjay	Bradion	Radhan	Ryanav	Badba	Badra	Radh
7	3687	Koli Pooja Ashok		Roli	Roli	ro it	Roli	foli
8	3688	Kshirsagar Ashwini Dattatray	MAID	KAD	KAD	FAD	KAD.	KA1
9	3689	Mane Madhuri Ashok	Mman	(Myman	Moran		Mma
10	3690	Pandhare Darshana Subhash	PSP	@3P		Dep	PSP	PSIF
11	3691	Pawar Divya Vitthal	BN. Pawar	DVAwar		DN Pawar	DyPawar	DyPavo
12	3692 -	Pawar Vishvajeet Dadaso	House	Processo	Down	Prom	Prom	Proce
13	3693	Potekar Varsha Vitthal	Potesan	(80) car	Poleku	Palelor	Potebar	Peku
14	3694	Sakunde Shweta Santosh		South Me		Schalen	SSlem	Selen
15	3695	Shinde Rutuja Rajendra	Bishind	(Shind	Rishind	e DShind	@shind	@Shin
16.	3696	Yewale Akshada Dilip	Bound	-			Ajeusle	



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B.Sc. III

Sr. No.	Roll No.	Name of the Student	13/1/2020	14/1/2020	2011/2020	21/12020	27/1/2020	28/1/2020
1	3681	Ghadage Snehal Sanjay	Chadage	Gh adays	chadage	Madage	Chadage	Chadas
2	3682	Ghorpade Pooja Mahadev	Pooje	- (Pogq	Pooja		Boja
3	3683	Gole Ankita Hanmant	Algole	AGole	Agole	acrole	AGole	AlGole
4	3684	Gole Madhavi Sunil	Fole	Pole	Grale	Goods	Gold	God
5	3685	Jadhav Pradnya Jagannath	P.J.Jadh	P.J. Jadhar	P.J. 38d	PJ Joden	PJ Jadhan	Postales
6	3686	Jadhav Rutuja Sanjay	Gaston			Agadha		Rgada
7	3687	Koli Pooja Ashok	Roli	Roli	foli	Kali	Roli	Roli
8	3688	Kshirsagar Ashwini Dattatray	LAD.	KAP			KA.D	KAI
9	3689	Mane Madhuri Ashok	Marine	Morrie	Comans	Ome	Lefenic	13 my
10	3690	Pandhare Darshana Subhash	PSP		ps. P	PSP		ps9
11	3691	Pawar Divya Vitthal	Dypawor	DVPawor	" DV Pawar	DVPawa	DV Pavco	DV Pavor
12	3692	Pawar Vishvajeet Dadaso	Bourn	-		Paur	Page	Town
13	3693	Potekar Varsha Vitthal	Quebr	Deser	Polet	POJELO	Pares	Potetor
14	3694	Sakunde Shweta Santosh		Stand	4	Slave	Skins	28km
15	3695	Shinde Rutuja Rajendra	O shind			ershina	@Shind	e (RShina
16	3696	Yewale Akshada Dilip	Agange	_			Acard	-



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B.Sc. III

Sr. No.	Roll No.	Name of the Student	3/2/2020	4/2/2020	10/2/2020	11/2/2020	17/2/2020	18/2/2021
1	3681	Ghadage Snehal Sanjay	Chadage	Ghadage	Chadaje	chadage		Ghaday
2	3682	Ghorpade Pooja Mahadev	Pooja	Poof	Paoja	Peoja	Poole	Pooje
3	3683	Gole Ankita Hanmant	Acrole	AGole	Acole	Raole	AGole	AGole
4	3684	Gole Madhavi Sunil		Grove		Prole		Pole
5	3685	Jadhav Pradnya Jagannath	P5-Tadhav	P.J. Jadle	P. J.Jedha	P.T. 901	P.J. Jadlu	P.J. 744
6	3686	Jadhav Rutuja Sanjay	Roahan		Rada	Palla	Pracha	Prach
7	3687	Koli Pooja Ashok	Roli	Roli	Roli	Roli	Roli	Roli
8	3688	Kshirsagar Ashwini Dattatray	FAD		FAD	_	HAD	FA
9	3689	Mane Madhuri Ashok	Monne	Monane	Monary	Mane	rynan	Manag
10	3690	Pandhare Darshana Subhash	PSP	P.S.P		P.97	BSP	p-sof
11	3691	Pawar Divya Vitthal	DVPawor	DV Pawar	DVPawa	Toppawa	DVPawor	DyPawo
12	3692	Pawar Vishvajeet Dadaso	Paucos	- (Person	,	Person	Baw
13	3693	Potekar Varsha Vitthal	Poselor	(18 Jebn		Govern	Blecon.	Esew
14	3694	Sakunde Shweta Santosh	288 kinde	888hand	288kur	e	88kinde	Sohur
15	3695	Shinde Rutuja Rajendra				Rind	(Rishind	the second second second second
16	3696	Yewale Akshada Dilip		Mand		Dygons		



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B.Sc. III

Sr. No.	Roll No.	Name of the Student	24/2/2020	25/2/2020	2/3/200	3/3/2026	9/3/2020	16/3/202
1	3681	Ghadage Snehal Sanjay	Gladage	- shadage	Hadage	Tadage	Charles	6 hadag
2	3682	Ghorpade Pooja Mahadev	Pooje	-	_	Pool.	Poge	
3	3683	Gole Ankita Hanmant	Alole	Alrole	A) Gole	AGole	AGole	& Gole
4	3684	Gole Madhavi Sunil	Grobe	Gale	Gold	Gole	Grove	Grove
5	3685	Jadhav Pradnya Jagannath	P.J. Jadhan	p.5. Tadlar	9.5.5 adla	97 Jadha	9-7-Jadh	62.24p
6	3686	Jadhav Rutuja Sanjay		Porahau	Racha	,	Brasha	Rychau
7	3687	Koli Pooja Ashok	Kali	Kali	Rdi	Roli	Roli	Roli
8	3688	Kshirsagar Ashwini Dattatray	ra.D.	KAP.	FA.D	KAD	KAD	+AD
9	3689	Mane Madhuri Ashok	Monane	Como	Congrand	Marrine	Monen	Burner
10	3690	Pandhare Darshana Subhash	·	PS-P	P-3.P	p.8.9		D-3.P
11	3691	Pawar Divya Vitthal	DVPauon	Delawors.	N Pawars	DVPawor	DN-famor	Dy Pawer
12	3692	Pawar Vishvajeet Dadaso	Haware	disavan	Hawar	Burn	Mamar	Homas
13	3693	Potekar Varsha Vitthal	potleur (Otebry	Poterur	poteton	Poteton	extern .
14	3694	Sakunde Shweta Santosh	88aburde	Strunk	& Server			Sakurl
15	3695	Shinde Rutuja Rajendra			• •	• •	@Shinde	Rshind
16	3696	Yewale Akshada Dilip	Ajewase	Ayewale	Ayour	Aprose	Agenas	Desco



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SKILL BASED COURSE Certificate

This is to certify that Mr./Miss
CLASS:SUBJECT
has successfully completed three months
"Skill Based Course" in . Scilab
From 2tc-2019 to

Chairman

Course Co-ordinator

Principal