### SNJB (Jain Gurukul's)

### K.K.H. Abad Arts, S.M.G. Lodha Commerce & S.P.H. Jain Science College Neminagar, Chandwad-423101, Dist.-Nashik, Maharashtra.

(Affiliated to Savitribai Phule Pune University) Id. No.PU/NS/AC/015/1970

(02556) Off. 252125 Res.252126 Tel. Fax:02556-252125

• P. O. Box No.: 6 • E-mail : alccchandwad@yahoo.co.in

• Website : www.acschandwadcollege.com

Best College Award by Savitribai Phule Pune University (2015-16)

### 1.1.2:

Establishment 27/11/1928

### Name of Course: Certificate course on MATLAB Programming (2017-18 & 2018-19)

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## Certificate Course on MATLAB Programming (2017-18)

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001

Course Code: CCMP-001

Academic Year: 2017-18



To, The Principal, K.K.H.A. Arts, S.M.G.L. Commerce & S.P.H.J. Science College, Chandwad.

Date: 15/06/2017

Subject: Permission to start the certificate course.

### Respected Sir,

According to the subject cited above, a "Certificate Course on MATLAB Programming" is decided to start at the Department of electronic science provided that IQAC found it is beneficial for our students. It is a 15 days course having 35 clock hours workload. Certificates will be given to the students who successfully pass the MCQ theory and Practical Examination. Please give us the permission to start the certificate course form the academic year 2017-18.

Please do the needful.

With due regards.

Dr. T. S. Salve Head,

Department of Electronic Science.

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### Shri. Neminath Jain Brahmacharyashram (Jain Gurukul's) Karmveer Keshavlalji Harakchandji Abad Arts, Shriman Motilalji Girdharilalji Lodha Commerce and Shriman P. H. Jain Science College,

Neminagar, Chandwad-423101, Dist- Nashik.

(Affiliated to Savitribai Phule Pune University) Id. No. PU/NS/AC/015/1970

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Sr. College Code No.: 088

Principal Mob.9423474476

Dr. G. H. Jain

Principal M.Sc., A.D.C.S.A&A, Ph.D.

Member-B.O.S.(Physics) Savitribai Phule Pune University

(NAAC- RE-ACCREDITED 'B')
(Best College Award 2015-16 of S.P.P.U. Pune)

Date: 04th Oct. 2017

### NOTICE

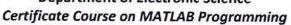
All the students from science discipline are hereby informed that, A "Certificate Course on MATLAB Programming" will be organized at the Department of Electronic Science during 17th Nov. 2017 to 04th Dec. 2017. It is a 15 days course having total 35 clock hour's duration. Certificates will be given to the students who successfully pass the MCQ theory and Practical Examination. All the students who are interested are requested to contact Dr. Deepak R. Patil, Co-ordinator of 'certificate course on MATLAB Programming' for details of the course.

Dr. Deepak R. Patil Co-ordinator



### S.N.J.B. ASHRAM'S

K.K.H.A. ARTS, S.M.G.L. COMMERCE & S.P.H.J. SCIENCE SENIOR COLLEGE CHANDWAD, Dist.: Nashik, 423 101 Department of Electronic Science





## Board of Studies Certificate Course on MATLAB Programming Academic Year 2017-18

Sr. No.	Name	Post in BoS	Sign
1.	Dr. G. H. Jain	Chairman - Principal	**
2.	Mr. S. P. Khairnar	BoS Member - Vice-Principal	Chhai
3.	Mr. Ahetesham A. Vakil	BoS Member - IQAC Co-Ordinator	Ardein
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	Mount
5.	Dr. Ganesh E. Patil	BoS Member - A. R. C.	Catu
6.	Dr. Deepak R. Patil	BoS Member - Subject Expert	ونوا
7.	Dr. Tushar S. Salve	BoS Member - Subject Expert	300
8.	Mr. O. M. Pardeshi	BoS Member - Subject Expert	14081
9.	Mr. C. B. Kumbharde	BoS Member - Dept. of Mathematics	23
10.	Mr. M. P. Zanje	BoS Member - Dept. of Mathematics	3 h
11.	Miss. Safoora J. Ansari	BoS Member - Dept. of Mathematics	Cannsi.
12.	Mr. Anil B. Patil, Assist. Professor, Panchvati College, NASHIK.	BoS Member - Subject Expert from other college.	62

Dr. G. H. Jain





### **Minutes of Meeting**

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001 Academic Year: 2017-18

Meeting for syllabus design and implementation for the 'Certificate Course on MATLAB Programming' was held at the Department of electronics on 21st June, 2017 at 04:45 pm. BoS chairman and all the members were present during the meeting. Following points were discussed during the meeting:

- 1. Chapters and topics in chapters to be included in syllabus were suggested by the members.
- 2. Emphasis was given on the design of practicals for the certificate course in order to provide hands on training to students.
- 3. Meeting resolves the syllabus for the certificate course.
- 4. Examination structure was decided for the course.
- 5. It is decided to take the feedback about course from various stake holders from time to time.

### Following BoS members were present for the meeting:

Sr. No.	Name	Post in BoS	Sign
1.	Dr. G. H. Jain	Chairman – Principal	78
2.	Mr. S. P. Khairnar	BoS Member – Vice-Principal	(3K) wiman
3.	Mr. Ahetesham A. Vakil	BoS Member – IQAC Co-Ordinator	APON
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	(Bum)
5.	Dr. Ganesh E. Patil	BoS Member – A. R. C.	Bate
6.	Dr. Deepak R. Patil	BoS Member – Subject Expert	Sir.
7.	Dr. Tushar S. Salve	BoS Member – Subject Expert	( San)

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8.	Mr. O. M. Pardeshi	BoS Member – Subject Expert	tecon
9.	Mr. C. B. Kumbharde	BoS Member – Dept. of Mathematics	P
10.	Mr. M. P. Zanje	BoS Member – Dept. of Mathematics	31_
11.	Miss. Safoora J. Ansari	BoS Member – Dept. of Mathematics	Comse.
12.	Mr. Anil B. Patil, Assist. Professor, L.V.H. A.S.C. College, NASHIK.	BoS Member – Subject Expert from other college.	BL

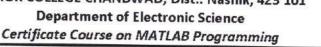
Dr. Deepak R. Patil Co-ordinator

Mr. Ahetesham A. Vakil IQAC Co-ordinator Dr. G. H. Jain



#### S.N.J.B. ASHRAM'S

### K.K.H.A. ARTS, S.M.G.L. COMMERCE & S.P.H.J. SCIENCE SENIOR COLLEGE CHANDWAD, Dist.: Nashik, 423 101 Department of Electronic Science





## Certificate Course on MATLAB Programming Syllabus Academic Year 2017-18

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001 Academic Year: 2017-18

#### Assessment Criterion:

Assessment of the student will be based on written test and practical examination. For 5 Units, there will be 5 written tests and 5 Practical examinations. The written test shall comprise of Multiple Choice Question. There shall be 10 questions each carrying 1 mark. Each written test carries 10 Marks. Each Practical Examination carries 10 Marks. Total marks, 50 marks (Theory) + 50 marks (Practical) = 100 marks.

### Standard of Passing:

Student must obtain minimum 50% marks for successful completion of the course. Standard of passing is minimum 5 marks for each written test and each practical examination. 50 marks out of total 100 Marks.

#### Learning Objectives:

- 1. To learn features of MATLAB as a programming tool.
- 2. To promote new teaching model that will help to develop programming skills and technique to solve mathematical problems.
- 3. To understand MATLAB graphic feature and its applications.
- 4. To use MATLAB as a simulation tool.

#### Unit 1. Introduction to MATLAB

09 Hrs.

- The MATLAB Environment
- MATLAB Basics Variables, Numbers, Operators, Expressions, Input and output.
- Vectors, Arrays Matrices

#### Unit 2. MATLAB Functions

05 Hrs.

Files and File Management – Import/Export

- **Built-in Functions**
- User defined Functions

### Unit 3. Graphics with MATLAB

05 Hrs.

- Basic 2D, 3D plots
- Graphic handling

### Unit 4. Programming with MATLAB

09 Hrs.

- Conditional Statements, Loops
- MATLAB Programs Programming and Debugging.
- Applications of MATLAB Programming.

### Unit 5. Mathematical Computing with MATLAB

07 Hrs.

- Algebraic equations
- Basic Symbolic Calculus and Differential equations
- Numerical Techniques

#### References:

- 1. "A Guide to MATLAB for Beginners and Experienced Users", 2<sup>nd</sup> Ed., Brian R. Hunt, Ronald L. Lipsman, Jonathan M. Rosenberg, Cambridge University Press, (2006).
- 2. "Essentials of MATLAB Programming", 2<sup>nd</sup> Ed., Stephen J. Chapman, Cengage Learning, (2009).
- 3. "MATLAB Demystified", David McMahon, The McGraw-Hill Companies, (2007).
- 4. "MATLAB® for Engineers", 3<sup>rd</sup> Ed., Holly Moore, Pearson Education, Inc., (2012).
- 5. "Engineering computation with MATLAB", 2<sup>nd</sup> Ed., David M. Smith, Pearson Education, Inc., (2010).

Dr. Deepak R. Patil Co-ordinator

Dr. T. S. Salve

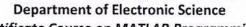
HOD

**IQAC Co-ordinator** 



### S.N.J.B. ASHRAM'S

### K.K.H.A. ARTS, S.M.G.L. COMMERCE & S.P.H.J. SCIENCE SENIOR COLLEGE CHANDWAD, Dist.: Nashik, 423 101



Certificate Course on MATLAB Programming



### **Certificate Course on MATLAB Programming**

### Time Table Academic Year 2017-18

Programme Code: ELECC-001

Course Code: CCMP-001

ays:	15			Clock Hours: 35
Sr. No.	Date	Time	Theory/ Practical/Exam.	Syllabus Topic
1.	17/11/2017	09:00 am to 10:00 am	Theory	Unit 1. Introduction to MATLAB
1.	17/11/2017	10:00 am to 11:00 am	Practical	The MATLAB Environment
2.	19/11/2017	09:00 am to 10:00 am	Theory	MATLAB Basics – Variables,
۷.	18/11/2017	10:00 am to 11:00 am	Practical	Numbers, Operators
3.	20/11/2017	09:00 am to 10:00 am	Theory	MATLAB Basics – Expressions,
Э.	20/11/2017	10:00 am to 11:00 am	Practical	Input and output.
		08:00 am to 09:00 am	Theory	Voctors Arrays Matrices
4.	21/11/2017	09:00 am to 10:00 am	Practical	<ul> <li>Vectors, Arrays – Matrices</li> </ul>
		10:00 am to 11:00 am	Exam	<ul> <li>MCQ Theory Exam – 30 minutes</li> <li>Practical Exam – 30 minutes.</li> </ul>
99.50		09:00 am to 10:00 am	Theory	Unit 2. MATLAB Functions  • Files and File Management –
5.	22/11/2017	10:00 am to 11:00 am	Practical	Import/Export  Built-in Functions
		08:00 am to 09:00 am	Theory	User defined Functions
6.	23/11/2017	09:00 am to 10:00 am	Practical	- Oser defined runctions
		10:00 am to 11:00 am	Exam	<ul> <li>MCQ Theory Exam – 30 minutes</li> <li>Practical Exam – 30 minutes.</li> </ul>
7.	24/11/2017	09:00 am to 10:00 am	Theory	Unit 3. Graphics with MATLAB
		10:00 am to	Practical	Basic 2D, 3D plots

		08:00 am to 09:00 am	Theory	
8.	25/11/2017	09:00 am to 10:00 am	Practical	Graphic handling
		10:00 am to 11:00 am	Exam	<ul> <li>MCQ Theory Exam – 30 minutes</li> <li>Practical Exam – 30 minutes.</li> </ul>
9.	27/11/2017	09:00 am to 10:00 am	Theory	Unit 4. Programming with MATLAB
J.	27/11/2017	10:00 am to 11:00 am	Practical	Conditional Statements, Loops
10.	28/11/2017	09:00 am to 10:00 am	Theory	MATLAB Programs – Programming
	20/11/2017	10:00 am to 11:00 am	Practical	and Debugging.
11.	29/11/2017	09:00 am to 10:00 am	Theory	MATLAB Programs – Programming
	23/11/2017	10:00 am to 11:00 am	Practical	and Debugging.
		08:00 am to 09:00 am	Theory	Applications of MATLAB
12.	30/11/2017	09:00 am to 10:00 am	Practical	Programming.
		10:00 am to 11:00 am	Exam	<ul> <li>MCQ Theory Exam – 30 minutes</li> <li>Practical Exam – 30 minutes</li> </ul>
13.	01/12/2017	09:00 am to 10:00 am	Theory	Unit 5. Mathematical Computing with MATLAB
13.	01/12/2017	10:00 am to 11:00 am	Practical	Algebraic equations
14	02/12/2017	09:00 am to 10:00 am	Theory	Basic Symbolic Calculus and
14.	14. 02/12/2017	10:00 am to 11:00 am	Practical	Differential equations
		08:00 am to 09:00 am	Theory	Numorical Tasks issues
15.	04/12/2017	09:00 am to 10:00 am	Practical	Numerical Techniques
		10:00 am to 11:00 am	Exam	<ul> <li>MCQ Theory Exam – 30 minutes</li> <li>Practical Exam – 30 minutes</li> </ul>

Dr. Deepak R. Patil Coordinator Dr. T. S. Salve HOD

Mr. Ahetesham A. Vakil IQAC Co-ordinator Dr. G. H. Jain





Course Code: CCMP-001

Certificate Course on MATLAB Programming

### Certificate Course on MATLAB Programming List of Students 2017-18

Programme Code: ELECC-001

Sr. No.	CRN	Name of Student	Class
1.	8986	Sonawane Sumit Shankar	F. Y. B. Sc.
2.	8848	Kale Sumant Dnyaneshwar	F. Y. B. Sc.
3.	8972	Thakare Satish Subhash	F. Y. B. Sc.
4.	8771	Aher Bhushan Sanjay	F. Y. B. Sc.
5.	9322	Gangurde Prasad Daulat	F. Y. B. Sc.
6.	9009	Navale Harshad Rajaram	F. Y. B. Sc.
7.	8989	Bahrainwala Nakiyya Murtaza	F. Y. B. Sc.
8.	8725	Rukari Pratiksha Dilip	F. Y. B. Sc.
9.	9603	Ugale Pranjal Shivaji	F. Y. B. Sc.
10.	9443	Gavhane Nikita Dattatray	F. Y. B. Sc.
11.	9011	Gangwal Apurva Manikchand	F. Y. B. Sc.
12.	8810	Bhoyate Manisha Vilas	F. Y. B. Sc.
13.	9466	Pagar Rekha Bhaginath	F. Y. B. Sc.
14.	9385	Aher Dipali Vitthal	F. Y. B. Sc.
15.	9173	Pawar Shital Raman	F. Y. B. Sc.
16.	9056	Thoke Darshana Dipak	F. Y. B. Sc.
17.	8870	Gangurde Varsha Kedu	F. Y. B. Sc.
18.	9151	Jadhav Sonali Pandit	F. Y. B. Sc.
19.	9333	Yendait Nikita Navnath	F. Y. B. Sc.
20.	8339	Davange Kiran Hemant	S. Y. B.Sc.
21.	7980	Yendait Varsha Sukdev	S. Y. B.Sc.
22.	8225	Gaikwad Mayuri Sukdev	S. Y. B.Sc.
23.	8142	Pathan Fardeenfaujiya Tanvirkhan	S. Y. B.Sc.
24.	8017	Patil Pravin Chandrakant	S. Y. B.Sc.

25.	7924	Thakare Komal Dnyaneshwar	S. Y. B.Sc.
26.	8162	Ushir Radhika Sakhahari	S. Y. B.Sc.
27.	8293	Shewale Shital Vasant	S. Y. B.Sc.
28.	7668	Chavan Mukta Shankar	T. Y. B.Sc.
29.	7530	Nikam Neha Kailas	T. Y. B.Sc.
30.	7570	Dumbare Komal Kailas	T. Y. B.Sc.

Dr. Deepak R. Patil

Coordinator HOD Mr. Ahetesham A. Vakil **IQAC Co-ordinator** 

Dr. G. H. Jain



### S.N.J.B. ASHRAM'S

### K.K.H.A. ARTS, S.M.G.L. COMMERCE & S.P.H.J. SCIENCE SENIOR COLLEGE

CHANDWAD, Dist.: Nashik, 423 101
Department of Electronic Science
Certificate Course on MATLAB Programming



### **Attendance**

### **Certificate Course on MATLAB Programming**

Name of Teacher: Dr. Deepak R. Patil.

Academic Year 2017-18

Department: Electronic Science.

Sr. No.	Name of Student	17 <sup>th</sup> Nov. 17	18 <sup>th</sup> Nov. 17	20 <sup>th</sup> Nov. 17	21 <sup>st</sup> Nov. 17	22 <sup>nd</sup> Nov. 17	23 <sup>rd</sup> Nov. 17	24 <sup>th</sup> Nov. 17	25 <sup>th</sup> Nov. 17	27 <sup>th</sup> Nov. 17	28 <sup>th</sup> Nov. 17	29 <sup>th</sup> Nov. 17	30 <sup>th</sup> Nov. 17	01 <sup>st</sup> Dec. 17	02 <sup>nd</sup> Dec. 17	04 <sup>th</sup> Dec. 17
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10.	Gavhane Nikita Dattatray	Perala	Perala	Petal	Perale	Petalla	Much	Petals.	array	Pual	Putary	Cuan	Robel	Ostava	Mah	Drain

11.	Gangwal Apurva Manikchand	Ayus.	Alous	Rious.	Aleus.	Avus	Run	Rows.	Row.	Ruxus	Bow.	Riving.	Right	Rusing	Row	Bow.
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17.	Gangurde Varsha Kedu	Buck	Buch	Buch	Buch	But	Bush	Quels	Guel	Bush	But	Buch	Pres	Bus	Paul	BINE
18.	Jadhav Sonali Pandit	Darda	Bands.	Spendel	Jane	Sadbau	Scolea	Jacken	Sadlar	Sadow	Saden	Sodlar	Sodlar	Jadhai	Jachu	factas
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25.	Thakare Komal Dnyaneshwar	Thake	Thulk	Bre	Thous	There	Ehre	The	Bhi	Bhu	Bus	Theele	Ehre !	Bhur	Bright	Eni
26.	Ushir Radhika Sakhahari	REUSTIE	REUShir	Rashir	Rushir	RSUSHIP	Roushiv	Prousty r	Pashir	Rashir	Reshir	Roushir	Reshir	Rashay	PSUSTA	Bashir
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### Minutes of Meeting

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001 Academic Year: 2017-18

Meeting for taking feedback for the 'Certificate Course on MATLAB Programming' was held at the Department of electronics on 18<sup>th</sup> December, 2017 at 04:45 pm after the successful completion of the certificate course. BoS chairman and all the members were present during the meeting. Following points were discussed during the meeting:

- 1. Feedback taken about course from the students were analyzed and discussed.
- 2. It suggested by members to continue the course for next year.
- 3. All members congratulated the coordinator and faculty members of electronics Department for successful implementation and completion of certificate course.

#### Following BoS members were present for the meeting:

Sr. No.	Name	Post in BoS	Sign
1.	Dr. G. H. Jain	Chairman – Principal	All .
2.	Mr. S. P. Khairnar	BoS Member – Vice-Principal	Gkhairna
3.	Mr. Ahetesham A. Vakil	BoS Member – IQAC Co-Ordinator	May
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	Mound
5.	Dr. Ganesh E. Patil	BoS Member – A. R. C.	take
6.	Dr. Deepak R. Patil	BoS Member – Subject Expert	900
7.	Dr. Tushar S. Salve	BoS Member – Subject Expert	The state of the s
8.	Mr. O. M. Pardeshi	BoS Member – Subject Expert	10000

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9.	Mr. C. B. Kumbharde	BoS Member – Dept. of Mathematics	R
10.	Mr. M. P. Zanje	BoS Member – Dept. of Mathematics	3h_
11.	Miss. Safoora J. Ansari	BoS Member – Dept. of Mathematics	Came.
12.	Mr. Anil B. Patil, Assist. Professor, L.V.H. A.S.C. College, NASHIK.	BoS Member – Subject Expert from other college.	82

Dr. Deepak R. Patil Co-ordinator

Mr. Ahetesham A. Vakil IQAC Co-ordinator



### S.N.J.B. ASHRAM'S K.K.H.A. ARTS, S.M.G.L. COMMERCE & S.P.H.J. SCIENCE SENIOR COLLEGE CHANDWAD, Dist.: Nashik, 423 101

Department of Electronic Science

Certificate Course on MATLAB Programming



### **Course Outcomes**

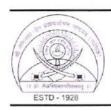
Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001 Academic Year: 2017-18

- 1. Students learned features of MATLAB as a programming tool. They are fully familiar to all the features of MATLAB software and easily handle the software.
- New teaching model which include theory & practical running simultaneously is introduced to our students. This method is very effective and helped to develop programming skills and technique to solve mathematical problems.
- 3. Students learned graphic features of MATLAB and they are able to use this feature effectively in the various applications.
- 4. Students are able to use MATLAB as a simulation tool.

Dr. Deepak R. Patil Co-ordinator



#### S.N.J.B. ASHRAM'S

### K.K.H.A. ARTS, S.M.G.L. COMMERCE & S.P.H.J. SCIENCE SENIOR COLLEGE CHANDWAD, Dist.: Nashik, 423 101 Department of Electronic Science Certificate Course on MATLAB Programming

**Summary Report** 



Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001

Academic Year: 2017-18

Certificate Course on MATLAB Programming was successfully conducted during 17<sup>th</sup> Nov. 2017 to 04<sup>th</sup> Dec. 2017. Total 30 students from first year B.Sc. to third year B.Sc. was successfully completed the course. Theory lectures was taken by Dr. Deepak R. Patil and practical session was supervised by Dr. Deepak R. Patil, Dr. T. S. Salve, Mr. O. M. Pardeshi and Mrs. M. A. Khillari. Practical session was conducted at computer lab of Department of Electronics and Telecommunication, SNJB's Late Sau. K. B. Jain College of Engineering, (Jain Gurukul), Neminagar.

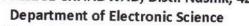
Dr. Deepak R. Patil Co-ordinator Dr. G. H. Jain

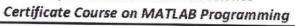


Roll No .:

### S.N.J.B. ASHRAM'S

### K.K.H.A. ARTS, S.M.G.L. COMMERCE & S.P.H.J. SCIENCE SENIOR COLLEGE CHANDWAD, Dist.: Nashik, 423 101







Date: 21/11/2017, Max. Marks: 10 M

### MCQ Theory Exam (2017-18) Unit 1. Introduction to MATLAB

Q. Multiple Choice Que	estions. (Tick Correct Optio	on)		[10 84]
	(	,		[10 M]
1) Window	w is used to enter variables	and run functions and	d M-files.	[1]
1. Command W	indow 2. Command History	3. Figure Window	4. Document Window	V
2) comn	nand stores workspace valu	es in the binary file		[1]
1. Load	2. clc	3. save	4. clear	1-1
3) comn	nand is used to terminate t	he MATLAB.		[1]
1. quit	2. exit	3.clear	4. Both a & b	
4) format sho.	rt command displays	digits after decimal	point.	[1]
1.4	2.3	3.5	4. 2	1805
5) Variable names	must start with			[1]
1. symbol	2. letter	3. digit	4. underscore charac	ter
<b>6)</b> special	variable is result of division	of zero by zero.		[1]
<b>1.</b> Inf	2. NaN	3. pi	<b>4.</b> eps	5155
7) Arithmetic oper	rator Is used for lef	ft division.		[1]
1. ÷	2. ^	3./	4, \	
8) function	is used for finding the sin o	of 'x'.	•	[1]
1. sin(x)	2. asin(x)	3. sinh(x)	4. asinh(x)	
9) notation	n is used to index array eler	ments & generate arra	y elements.	[1]
1. (start : increm		d : increment : start)		
3. (end : increme		rt : increment : end)		
<b>10)</b> is use	ed to separate rows while o		and 1	[1]
1. ;	2. :	3.,	4.	r_1
		258922€.	1	



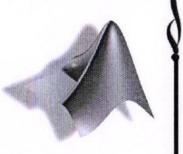
Shri Neminath Jain Brahmacharyashram's

K.K.H. Aabad Arts, S.M.G. Lodha Commerce & S.P.H. Jain Science College,

Neminagar Chandwad, Dist.: Nashik, 423 101

"BEST COLLEGE AWARD 2015-16 of Savitribai Phule Pune University"

Re-accredited by NAAC with 'B' Grade

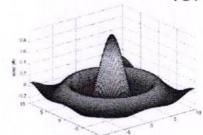


### **CERTIFICATE**

This certificate is awarded to

Mr. Sumit Shankar Sonawane

for successful completion of 35 contact hours Certificate Course on



### **MATLAB Programming**

Conducted by Department of Electronic Science from 17th November 2017 to 04th December 2017.

Programme Code: ELECC-001

Course Code: CCMP-001

Academic Year: 2017-18

Dr. Deepak R. Patil Co-ordinator Dr. Tushar S. Salve Head Dept. of Electronic Science Mr. Ahetesham A. Vakil IQAC Co-ordinator

Dr. G. H. Jain Principal







### Certificate Course on MATLAB Programming (2018-19)

Name of Programme: Certificate Course on MATLAB Programming

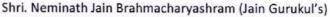
Type of Programme: Certificate Course

Programme Code: ELECC-001

Course Code: CCMP-001

Academic Year: 2018-19





Karmveer Keshavlalji Harakchandji Abad Arts, Shriman Motilalji Girdharilalji Lodha Commerce and Shriman P. H. Jain Science College,

Neminagar, Chandwad-423101, Dist- Nashik.







(Affiliated to Savitribai Phule Pune University) Id. No. PU/NS/AC/015/1970

Website: www.acschandwadcollege.com

(Best College Award 2015-16 of S.P.P.U. Pune)

(NAAC- RE-ACCREDITED 'B')

Sr. College Code No.: 088

(02556) Off. 252125 Res.252126 Tel. Fax:02556-252125 • P. O. Box No.: 6 • E-mail : alccchandwad@yahoo.co.in

Principal Mob.9423474476

Dr. G. H. Jain Principal

Member-B.O.S.(Physics) Savitribai Phule Pune University

M.Sc., A.D.C.S.A&A, Ph.D.

Date: 15th Oct. 2018

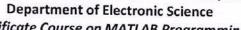
### NOTICE

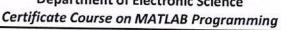
All the students from science discipline are hereby informed that, A "Certificate Course on MATLAB Programming" will be organized at the Department of electronic science during 03rd Dec. 2018 to 19th Dec. 2018. It is a 15 days course having total 35 clock hour's duration. Intake capacity of the course is 30 only. Certificates will be given to the students who successfully pass the MCQ theory and Practical Examination. All the students who are interested are requested to contact Dr. Deepak R. Patil, Co-ordinator of 'certificate course on MATLAB Programming' for details of the course.

Dr. Deepak R. Patil Co-ordinator



### S.N.J.B. ASHRAM'S K.K.H.A. ARTS, S.M.G.L. COMMERCE & S.P.H.J. SCIENCE SENIOR COLLEGE CHANDWAD, Dist.: Nashik, 423 101







### **Board of Studies**

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001 Academic Year: 2018-19

As per the permission received from the IQAC and discussion in the Department staff meeting, it is decided to conduct the certificate course on MATLAB programming during academic year 2018-19. For this certificate course, BoS is formed and following experts are appointed as BoS members.

Sr. No.	Name	Name Post in BoS				
1.	Dr. G. H. Jain	Chairman – Principal	Sign			
2.	Mr. S. P. Khairnar	BoS Member – Vice-Principal	Thhan			
3.	Mr. Ahetesham A. Vakil	BoS Member – IQAC Co-Ordinator	Haus			
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	Meeu			
5.	Dr. Ganesh E. Patil	BoS Member – A. R. C.	Salet			
6.	Dr. Deepak R. Patil	BoS Member – Subject Expert	700			
7.	Dr. Tushar S. Salve	BoS Member – Subject Expert –	Jamy			
8.	Mr. O. M. Pardeshi	BoS Member – Subject Expert				
9.	Mr. C. B. Kumbharde	BoS Member – Dept. of Mathematics	18			
10.	Mr. M. P. Zanje	BoS Member – Dept. of Mathematics	On.			
11.	Miss. Safoora J. Ansari	BoS Member – Dept. of Mathematics	Carns			
12.	Mr. Anil B. Patil, Assist. Professor, L.V.H. A.S.C. College, NASHIK.	BoS Member – Subject Expert from other college.	Be			

Dr. Deepak R. Patil Co-ordinator

Dr. T. S. Salve HOD

Mr. Ahetesham A. Vakil **IQAC Co-ordinator** 

Dr. G. H. Jain





### **Minutes of Meeting**

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001 Academic Year: 2018-19

Meeting for syllabus revision and implementation for the 'Certificate Course on MATLAB Programming' was held at the Department of electronics on 27<sup>th</sup> June, 2018 at 04:50 pm. BoS chairman and all the members were present during the meeting. Following points were discussed during the meeting:

- Topics in chapters to be included/revived in syllabus were suggested by the members.
- 2. New topic 'Transforms' is included in Unit 5 Mathematical Computing with MATLAB.
- 3. It is decided to take the feedback about course from various stake holders from time to time.

Following BoS members were present for the meeting:

Sr. No.	Name	Post in BoS	Sign
1.	Dr. G. H. Jain	Chairman – Principal	A
2.	Mr. S. P. Khairnar	BoS Member – Vice-Principal	5khairna
3.	Mr. Ahetesham A. Vakil	BoS Member – IQAC Co-Ordinator	AND
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	Mound
5.	Dr. Ganesh E. Patil	BoS Member – A. R. C.	Palul
6.	Dr. Deepak R. Patil	BoS Member – Subject Expert	(1)
7.	Dr. Tushar S. Salve	BoS Member – Subject Expert –	Augus
8.	Mr. O. M. Pardeshi	BoS Member – Subject Expert	Leesh

9.	Mr. C. B. Kumbharde	BoS Member – Dept. of Mathematics =	7
10.	Mr. M. P. Zanje	BoS Member – Dept. of Mathematics	34.
11.	Miss. Safoora J. Ansari	BoS Member – Dept. of Mathematics	Camps.
12.	Mr. Anil B. Patil, Assist. Professor, L.V.H. A.S.C. College, NASHIK.	BoS Member – Subject Expert from other college.	de

Dr. Deepak R. Patil Co-ordinator Mr. Ahetesham A. Vakil IQAC Co-ordinator





### Certificate Course on MATLAB Programming Syllabus Academic Year 2018-19

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001

Academic Year: 2018-19

#### Assessment Criterion:

Assessment of the student will be based on written test and practical examination. For 5 Units, there will be 5 written tests and 5 Practical examinations. The written test shall comprise of Multiple Choice Question. There shall be 10 questions each carrying 1 mark. Each written test carries 10 Marks. Each Practical Examination carries 10 Marks. Total marks, 50 marks (Theory) + 50 marks (Practical) = 100 marks.

### Standard of Passing:

Student must obtain minimum 50% marks for successful completion of the course. Standard of passing is minimum 5 marks for each written test and each practical examination. 50 marks out of total 100 Marks.

### Learning Objectives:

- 1. To learn features of MATLAB as a programming tool.
- 2. To promote new teaching model that will help to develop programming skills and technique to solve mathematical problems.
- 3. To understand MATLAB graphic feature and its applications.
- 4. To use MATLAB as a simulation tool.

#### Unit 1. Introduction to MATLAB

09 Hrs.

- The MATLAB Environment
- MATLAB Basics Variables, Numbers, Operators, Expressions, Input and output.
- Vectors, Arrays Matrices

#### Unit 2. MATLAB Functions

Built-in Functions

05 Hrs.

User defined Functions

### Unit 3. Graphics with MATLAB

05 Hrs.

- Files and File Management Import/Export
- Basic 2D, 3D plots
- · Graphic handling

### Unit 4. Programming with MATLAB

09 Hrs.

- Conditional Statements, Loops
- MATLAB Programs Programming and Debugging.
- · Applications of MATLAB Programming.

### Unit 5. Mathematical Computing with MATLAB

07 Hrs.

- Algebraic equations
- · Basic Symbolic Calculus and Differential equations
- Numerical Techniques and Transforms

### References:

- "A Guide to MATLAB for Beginners and Experienced Users", 2<sup>nd</sup> Ed., Brian R. Hunt, Ronald L. Lipsman, Jonathan M. Rosenberg, Cambridge University Press, (2006).
- 2. "Essentials of MATLAB Programming", 2<sup>nd</sup> Ed., Stephen J. Chapman, Cengage Learning, (2009).
- 3. "MATLAB Demystified", David McMahon, The McGraw-Hill Companies, (2007).
- 4. "MATLAB® for Engineers", 3<sup>rd</sup> Ed., Holly Moore, Pearson Education, Inc., (2012).
- 5. "Engineering computation with MATLAB", 2<sup>nd</sup> Ed., David M. Smith, Pearson Education, Inc., (2010).

Dr. Deepak R. Patil Co-ordinator Dr. T. S. Salve HOD VIr. Ahetesham A. Vakil IQAC Co-ordinator

Dr. G. H. Jain





### **Certificate Course on MATLAB Programming**

### Time Table Academic Year 2018-19

Programme Code: ELECC-001

Course Code: CCMP-001

Days: 15 Clock Hours: 35

ays:	15			Clock Hours: 35
Sr. No.	Date	Time	Theory/ Practical/Exam.	Syllabus Topic
1. 03/12/2018		09:00 am to 10:00 am	Theory	Unit 1. Introduction to MATLAB
-	03/12/2010	10:00 am to 11:00 am	Practical	The MATLAB Environment
	04/42/2040	09:00 am to 10:00 am	Theory	<ul> <li>MATLAB Basics – Variables,</li> </ul>
2.	04/12/2018	10:00 am to 11:00 am	Practical	Numbers, Operators
3.	05/12/2018	09:00 am to 10:00 am	Theory	MATLAB Basics – Expressions,
Э.	03/12/2018	10:00 am to 11:00 am	Practical	Input and output.
		08:00 am to 09:00 am	Theory	<ul> <li>Vectors, Arrays – Matrices</li> </ul>
4.	06/12/2018	09:00 am to 10:00 am	Practical	• Vectors, Arrays – Matrices
		10:00 am to 11:00 am	Exam	<ul> <li>MCQ Theory Exam – 30 minutes</li> <li>Practical Exam – 30 minutes.</li> </ul>
		09:00 am to 10:00 am	Theory	Unit 2. MATLAB Functions  • Files and File Management –
5.	07/12/2018	10:00 am to 11:00 am	Practical	Import/Export  • Built-in Functions
		08:00 am to 09:00 am	Theory	User defined Functions
6.	08/12/2018	09:00 am to 10:00 am	Practical	- Oser defined functions
		10:00 am to 11:00 am	Exam	<ul> <li>MCQ Theory Exam – 30 minutes</li> <li>Practical Exam – 30 minutes.</li> </ul>
7.	10/12/2018	09:00 am to 10:00 am	Theory	Unit 3. Graphics with MATLAB
		10:00 am to Practical		Basic 2D, 3D plots

		08:00 am to 09:00 am	Theory	
8.	11/12/2018	09:00 am to 10:00 am	Practical	Graphic handling
		10:00 am to 11:00 am	Exam	<ul> <li>MCQ Theory Exam – 30 minutes</li> <li>Practical Exam – 30 minutes.</li> </ul>
9.	12/12/2018	09:00 am to 10:00 am	Theory	Unit 4. Programming with MATLAB
J.	12/12/2018	10:00 am to 11:00 am	Practical	Conditional Statements, Loops
10.	13/12/2018	09:00 am to 10:00 am	Theory	MATLAB Programs – Programming
10.	13/12/2016	10:00 am to 11:00 am	Practical	and Debugging.
11.	14/12/2018	09:00 am to 10:00 am	Theory	MATLAB Programs – Programming
	14/12/2010	10:00 am to 11:00 am	Practical	and Debugging.
		08:00 am to 09:00 am	Theory	Applications of MATLAB
12.	15/12/2018	09:00 am to 10:00 am	Practical	Programming.
		10:00 am to 11:00 am	Exam	<ul> <li>MCQ Theory Exam – 30 minutes</li> <li>Practical Exam – 30 minutes</li> </ul>
13.	17/12/2019	09:00 am to 10:00 am	Theory	Unit 5. Mathematical Computing with MATLAB
15.	17/12/2018	10:00 am to 11:00 am	Practical	Algebraic equations
14	19/12/2019	09:00 am to 10:00 am	Theory	Basic Symbolic Calculus and
14.	18/12/2018	10:00 am to 11:00 am	Practical	Differential equations
		08:00 am to 09:00 am	Theory	Numerical Techniques and
15.	15. 19/12/2018	09:00 am to 10:00 am	Practical	Transforms
		10:00 am to 11:00 am	Exam	<ul> <li>MCQ Theory Exam – 30 minutes</li> <li>Practical Exam – 30 minutes</li> </ul>

Dr. Deepak R. Patil Coordinator

HOD

Mr. Ahetesham A. Vakil **IQAC Co-ordinator** 

Dr. G. H. Jain





Course Code: CCMP-001

### Certificate Course on MATLAB Programming <u>List of Students 2018-19</u>

Programme Code: ELECC-001

Sr. No.	CRN	Name of Student	Class
1.	9155	Bhandari Nilesh Parasmal	S. Y. B.Sc.
2.	9425	Shinde Rushikesh Rameshwar	S. Y. B.Sc.
3.	9246	Shinde Shankar Bhagirath	S. Y. B.Sc.
4.	9522	Thakare Swapnil Gorakhnath	S. Y. B.Sc.
5.	8883	Bankar Akash Vishwasrao	S. Y. B.Sc.
6.	9111	Pawar Vaibhav Raosaheb	S. Y. B.Sc.
7.	8873	Borgude Jayshree Ramdas	S. Y. B.Sc.
8.	9116	Jadhav Kishoree Balasaheb	S. Y. B.Sc.
9.	9223	Khangal Harshada Sumanta	S. Y. B.Sc.
10.	8917	Thorat Monika Umesh	S. Y. B.Sc
11.	9275	Thakare Pranjal Prakash	S. Y. B.Sc
12.	9497	Khairnar Shital Sanjay	S. Y. B.Sc
13.	9354	Shirole Mrunalini Pandit	S. Y. B.Sc
14.	9606	Shirole Nikita Eknath	S. Y. B.Sc
15.	8733	Kolhe Tejaswini Vasant	S. Y. B.Sc
16.	10494	Deore Punam Bhausaheb	S. Y. B.Sc
17.	8645	Thombare Nishigandha Sahebrao	T. Y. B.Sc.
18.	8224	Jadhav Rupa Raosaheb	T. Y. B.Sc.
19.	8325	Chavan Anita Jagannath	T. Y. B.Sc.
20.	8044	Jejure Dipika Shivaji	T. Y. B.Sc
21.	7905	Bade Maya Dagu	T. Y. B.Sc
22.	7993	Sathe Tejaswini Dagu	T. Y. B.Sc
23.	8195	Pagar Shraddha Kailas	T. Y. B.Sc

24.	8360	Badwar Vishakha Baburao	T. Y. B.Sc.
25.	10438	Shelke Snehal Balwant	T. Y. B.Sc.
26.	10437	Ahire Dipali Sanjay	T. Y. B.Sc.
27.	10483	Borse Hrushikesh Devchand	T. Y. B.Sc.
28.	8399	Bargal Shruti Dattatray	T. Y. B.Sc.
29.	8459	Gade Rupali Lahanu	T. Y. B.Sc.
30.	8410	Wagh Seema Ravindra	T. Y. B.Sc.

Dr. Deepak R. Patil Coordinator

Dr. T. S. Salve HOD Mr. Ahetesham A. Vakil IQAC Co-ordinator



### S.N.J.B. ASHRAM'S K.K.H.A. ARTS, S.M.G.L. COMMERCE & S.P.H.J. SCIENCE SENIOR COLLEGE

CHANDWAD, Dist.: Nashik, 423 101 Department of Electronic Science



### **Certificate Course on MATLAB Programming**

### **Attendance**

Name of Teacher: Dr. Deepak R. Patil.

### Academic Year 2018-19

Department: Electronic Science.

Sr. No.	Name of Student	03 <sup>rd</sup> Dec. 2018	04 <sup>th</sup> Dec. 2018	05 <sup>th</sup> Dec. 2018	06 <sup>th</sup> Dec. 2018	07 <sup>th</sup> Dec. 2018	08 <sup>th</sup> Dec. 2018	10 <sup>th</sup> Dec. 2018	11 <sup>th</sup> Dec. 2018	12 <sup>th</sup> Dec. 2018	13 <sup>th</sup> Dec. 2018	14 <sup>th</sup> Dec. 2018	15 <sup>th</sup> Dec. 2018	17 <sup>th</sup> Dec. 2018	18 <sup>th</sup> Dec. 2018	19 <sup>th</sup> Dec. 2018
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3.	Shinde Shankar Bhagirath	Bil	Bil	Birl	Birl	Disc.	Bili	Birl	Bil	Bird	Birt	Bist	Bir	Book	Bot	Bil
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11.	Thakare Pranjal Prakash	Bukac	Phakac	Prikac	Trakos			Makac		Takae	Bakae	Rakou	Thaker	Rakas	Thakac	Prekan
12.	Khairnar Shital Sanjay	Khaid	Striet	draig	Arrail	designation	dehaid	-dhas			Khaird	Schaid			(khall	
13.	Shirole Mrunalini Pandit	Mal	Attale	用客下	年のア	生的に	EALS I	制码	Bler	ALEI.	HEL	HEL	HELE	Her	Preile	Aprelle
14.	Shirole Nikita Eknath	Philade	- Whied	aniede	Priede	Thirde	Theode	Chiech	Tiegde	Miede	Prisole		Phied	Micole	Chical	(Misole
15.	Kolhe Tejaswini Vasant	Kone	Roll	Kone	K.R.	Koks	Kus	Kone	Kohe	Kin	Tone	Kons	Kohn	Volve	Kens	RM.
16.	Deore Punam Bhausaheb	Leave	- too	etre-	Aco.	A10-2	The same	teo:	of con	139	Acr.	AU.	= tea	tev.	Acc	ster.
17.	Thombare Nishigandha Sahebrao	Athor	Attor	Attool	Archands	Athons	Attorle	Alan	Petinto	And a	Atton	Arthons	Athons	Atha	Abov	Arbons
18.	Jadhav Rupa Raosaheb	anjadhay	Injudhav	ohjadhav	Syadhan	Rajudhov	2npd ha	anjudhow	anjadhoy	Ingadhar	20 jadher	2 jadher	2 Jadha	2 Dajadho	2 pollo	anjadhar
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### Minutes of Meeting

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001 Academic Year: 2018-19

Meeting for taking feedback for the 'Certificate Course on MATLAB Programming' was held at the Department of electronics on 24<sup>th</sup> December, 2018 at 04:45 pm after the successful completion of the certificate on second successive year. BoS chairman and all the members were present during the meeting. Following points were discussed during the meeting:

- 1. Feedback taken about course from the students were analyzed and discussed.
- 2. On the basis of feedback, it suggested by members to continue the course for next year.
- 3. All members congratulated the coordinator and faculty members of electronics Department for successful implementation and completion of certificate course.

Following BoS members were present for the meeting:

Sr. No.	Name	Post in BoS	Sign
1.	Dr. G. H. Jain	Chairman – Principal	
2.	Mr. S. P. Khairnar	BoS Member – Vice-Principal	(3/khai
3.	Mr. Ahetesham A. Vakil	BoS Member – IQAC Co-Ordinator	Ardeir
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	Moening
5.	Dr. Ganesh E. Patil	BoS Member – A. R. C.	Patr
6.	Dr. Deepak R. Patil	BoS Member – Subject Expert	100
7.	Dr. Tushar S. Salve	BoS Member – Subject Expert	(3m)
8.	Mr. O. M. Pardeshi	BoS Member – Subject Expert	FOOR

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9.	Mr. C. B. Kumbharde	BoS Member – Dept. of Mathematics	9
10.	Mr. M. P. Zanje	BoS Member – Dept. of Mathematics	3h
11.	Miss. Safoora J. Ansari	BoS Member – Dept. of Mathematics	Camer.
12.	Mr. Anil B. Patil, Assist. Professor, L.V.H. A.S.C. College, NASHIK.	BoS Member – Subject Expert from other college.	Be

Dr. Deepak R. Patil Co-ordinator Mr. Ahetesham A. Vakil IQAC Co-ordinator



Certificate Course on MATLAB Programming

**Course Outcomes** 



Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001 Academic Year: 2018-19

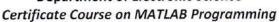
- 1. Students learned features of MATLAB as a programming tool. They are fully familiar to all the features of MATLAB software and easily handle the software.
- New teaching model which include theory & practical running simultaneously is introduced to our students. This method is very effective and helped to develop programming skills and technique to solve mathematical problems.
- 3. Students learned graphic features of MATLAB and they are able to use this feature effectively in the various applications.
- 4. Students are able to use MATLAB as a simulation tool.
- 5. Major outcome is students are able to work as a 'MATLAB programmer' in the industry because of the hands on practical sessions. This job oriented course will helps students to get the jobs in future.

Dr. Deepak R. Patil Co-ordinator



#### S.N.J.B. ASHRAM'S

### K.K.H.A. ARTS, S.M.G.L. COMMERCE & S.P.H.J. SCIENCE SENIOR COLLEGE CHANDWAD, Dist.: Nashik, 423 101 Department of Electronic Science





### **Summary Report**

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001 Course Code: CCMP-001 Academic Year: 2018-19

Certificate Course on MATLAB Programming was successfully conducted during 03<sup>rd</sup> Dec. 2018 to 19<sup>th</sup> Dec. 2018. Total 30 students of second and third year B.Sc. was successfully completed the course. Theory lectures was taken by Dr. Deepak R. Patil and practical session was supervised by Dr. Deepak R. Patil, Dr. T. S. Salve, Mr. O. M. Pardeshi and Mrs. M. A. Khillari. Practical session was conducted at computer lab of Department of Electronics and Telecommunication, SNJB's Late Sau. K. B. Jain College of Engineering, (Jain Gurukul), Neminagar. All the students participated in this course are able to handle MATLAB Software as well as trained in the MATLAB programming.

Dr. Deepak R. Patil Co-ordinator Dr. G. H. Jain

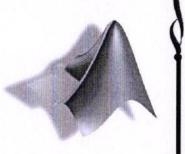


Shri Neminath Jain Brahmacharyashram's

K.K.H. Aabad Arts, S.M.G. Lodha Commerce & S.P.H. Jain Science College,

Neminagar Chandwad, Dist.: Nashik, 423 101

"BEST COLLEGE AWARD 2015-16 of Savitribai Phule Pune University" Re-accredited by NAAC with 'B' Grade

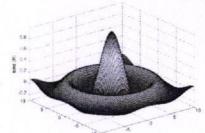


### CERTIFICATE

This certificate is awarded to

Mr. Nilesh Parasmal Bhandari

for successful completion of 35 contact hours Certificate Course on



### **MATLAB Programming**

Conducted by Department of Electronic Science from 03rd December 2018 to 19th December 2018.

Programme Code: ELECC-001 Course Code: CCMP-001

Academic Year: 2018-19

Dr. Deepak R. Patil Co-ordinator

Dr. Tushar S. Salve **Head Dept. of Electronic Science**  Mr. Ahetesham A. Vakil **IQAC Co-ordinator** 

Dr. G. H. Jain Principal

