

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.



Establishment
27/11/1928

(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:

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

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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
(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.

forwarded to IQAC
[Signature]

Information received
[Signature]



ESTD - 1928

SNJB

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

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

Sr. College Code No.: 088

• Principal Mob.9423474476

Dr. G. H. Jain

Principal

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

(NAAC- RE-ACCREDITED 'B')

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

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

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

Dr. G. H. Jain

PRINCIPAL

K.K.H.A. Art's, S.M.G.L. Comm.
& S.P.H.J. Science College,
Chandwad Dist. Nashik.



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



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	
3.	Mr. Ahetesham A. Vakil	BoS Member - IQAC Co-Ordinator	
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	
5.	Dr. Ganesh E. Patil	BoS Member - A. R. C.	
6.	Dr. Deepak R. Patil	BoS Member - Subject Expert	
7.	Dr. Tushar S. Salve	BoS Member - Subject Expert	
8.	Mr. O. M. Pardeshi	BoS Member - Subject Expert	
9.	Mr. C. B. Kumbharde	BoS Member - Dept. of Mathematics	
10.	Mr. M. P. Zanje	BoS Member - Dept. of Mathematics	
11.	Miss. Safoora J. Ansari	BoS Member - Dept. of Mathematics	
12.	Mr. Anil B. Patil, Assist. Professor, Panchvati College, NASHIK.	BoS Member - Subject Expert from other college.	

Dr. G. H. Jain

PRINCIPAL

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& S.P.H.J. Science College,
Chandwad Dist. Nashik.



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



Minutes of Meeting

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001

Course Code: CCMP-001


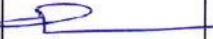
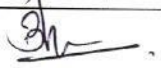


Academic Year: 2017-18


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	
2.	Mr. S. P. Khairnar	BoS Member – Vice-Principal	
3.	Mr. Ahetesham A. Vakil	BoS Member – IQAC Co-Ordinator	
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	
5.	Dr. Ganesh E. Patil	BoS Member – A. R. C.	
6.	Dr. Deepak R. Patil	BoS Member – Subject Expert	
7.	Dr. Tushar S. Salve	BoS Member – Subject Expert	

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


Dr. Deepak R. Patil
 Co-ordinator


Mr. Ahetesham A. Vakil
 IQAC Co-ordinator


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



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



Dr. Deepak R. Patil
Co-ordinator



Dr. T. S. Salve
HOD



Mr. Ahetesham A. Vakil
IQAC Co-ordinator



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Department of Electronic Science
Certificate Course on MATLAB Programming



Certificate Course on MATLAB Programming

Time Table

Academic Year 2017-18

Programme Code: ELECC-001

Course Code: CCMP-001

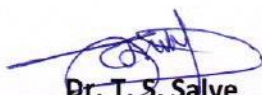
Days: 15


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 • The MATLAB Environment
		10:00 am to 11:00 am	Practical	
2.	18/11/2017	09:00 am to 10:00 am	Theory	• MATLAB Basics – Variables, Numbers, Operators
		10:00 am to 11:00 am	Practical	
3.	20/11/2017	09:00 am to 10:00 am	Theory	• MATLAB Basics – Expressions, Input and output.
		10:00 am to 11:00 am	Practical	
4.	21/11/2017	08:00 am to 09:00 am	Theory	• Vectors, Arrays – Matrices • MCQ Theory Exam – 30 minutes • Practical Exam – 30 minutes.
		09:00 am to 10:00 am	Practical	
		10:00 am to 11:00 am	Exam	
5.	22/11/2017	09:00 am to 10:00 am	Theory	Unit 2. MATLAB Functions • Files and File Management – Import/Export • Built-in Functions
		10:00 am to 11:00 am	Practical	
6.	23/11/2017	08:00 am to 09:00 am	Theory	• User defined Functions • MCQ Theory Exam – 30 minutes • Practical Exam – 30 minutes.
		09:00 am to 10:00 am	Practical	
		10:00 am to 11:00 am	Exam	
7.	24/11/2017	09:00 am to 10:00 am	Theory	Unit 3. Graphics with MATLAB • Basic 2D, 3D plots
		10:00 am to	Practical	

8.	25/11/2017	08:00 am to 09:00 am	Theory	<ul style="list-style-type: none"> Graphic handling MCQ Theory Exam – 30 minutes Practical Exam – 30 minutes.
		09:00 am to 10:00 am	Practical	
		10:00 am to 11:00 am	Exam	
9.	27/11/2017	09:00 am to 10:00 am	Theory	Unit 4. Programming with MATLAB <ul style="list-style-type: none"> Conditional Statements, Loops
		10:00 am to 11:00 am	Practical	
10.	28/11/2017	09:00 am to 10:00 am	Theory	<ul style="list-style-type: none"> MATLAB Programs – Programming and Debugging.
		10:00 am to 11:00 am	Practical	
11.	29/11/2017	09:00 am to 10:00 am	Theory	<ul style="list-style-type: none"> MATLAB Programs – Programming and Debugging.
		10:00 am to 11:00 am	Practical	
12.	30/11/2017	08:00 am to 09:00 am	Theory	<ul style="list-style-type: none"> Applications of MATLAB Programming. MCQ Theory Exam – 30 minutes Practical Exam – 30 minutes
		09:00 am to 10:00 am	Practical	
		10:00 am to 11:00 am	Exam	
13.	01/12/2017	09:00 am to 10:00 am	Theory	Unit 5. Mathematical Computing with MATLAB <ul style="list-style-type: none"> Algebraic equations
		10:00 am to 11:00 am	Practical	
14.	02/12/2017	09:00 am to 10:00 am	Theory	<ul style="list-style-type: none"> Basic Symbolic Calculus and Differential equations
		10:00 am to 11:00 am	Practical	
15.	04/12/2017	08:00 am to 09:00 am	Theory	<ul style="list-style-type: none"> Numerical Techniques MCQ Theory Exam – 30 minutes Practical Exam – 30 minutes
		09:00 am to 10:00 am	Practical	
		10:00 am to 11:00 am	Exam	


Dr. Deepak R. Patil
Coordinator


Dr. T. S. Salve
HOD


Mr. Ahetesham A. Vakil
IQAC Co-ordinator


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Department of Electronic Science
Certificate Course on MATLAB Programming



Certificate Course on MATLAB Programming
List of Students 2017-18

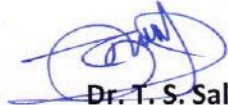
Programme Code: ELECC-001

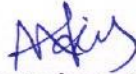
Course Code: CCMP-001


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 Tanvir Khan	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 Sakhari	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


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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 th Nov. 17	18 th Nov. 17	20 th Nov. 17	21 st Nov. 17	22 nd Nov. 17	23 rd Nov. 17	24 th Nov. 17	25 th Nov. 17	27 th Nov. 17	28 th Nov. 17	29 th Nov. 17	30 th Nov. 17	01 st Dec. 17	02 nd Dec. 17	04 th Dec. 17
1.	Sonawane Sumit Shankar	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh
2.	Kale Sumant Dnyaneshwar	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh
3.	Thakare Satish Subhash	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh
4.	Aher Bhushan Sanjay	Baher	Baher	Baher	Baher	Baher	Baher	Baher	Baher	Baher	Baher	Baher	Baher	Baher	Baher	Baher
5.	Gangurde Prasad Daulat	Bg	Bg	Bg	Bg	Bg	Bg	Bg	Bg	Bg	Bg	Bg	Bg	Bg	Bg	Bg
6.	Navale Harshad Rajaram	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale
7.	Bahrainwala Nakiyya Murtaza	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya	Nakiyya
8.	Rukari Pratiksha Dilip	Rukari	Rukari	Rukari	Rukari	Rukari	Rukari	Rukari	Rukari	Rukari	Rukari	Rukari	Rukari	Rukari	Rukari	Rukari
9.	Ugale Pranjal Shivaji	Bgale	Bgale	Bgale	Bgale	Bgale	Bgale	Bgale	Bgale	Bgale	Bgale	Bgale	Bgale	Bgale	Bgale	Bgale
10.	Gavhane Nikita Dattatray	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil

11.	Gangwal Apurva Manikchand	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>	<u>Apurva</u>
12.	Bhoyate Manisha Vilas	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>	<u>Manisha</u>
13.	Pagar Rekha Bhaginath	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>	<u>Rekha</u>
14.	Aher Dipali Vitthal	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>	<u>Dipali</u>
15.	Pawar Shital Raman	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>
16.	Thoke Darshana Dipak	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>	<u>Darshana</u>
17.	Gangurde Varsha Kedu	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>
18.	Jadhav Sonali Pandit	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>
19.	Yendait Nikita Navnath	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>
20.	Davange Kiran Hemant	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>	<u>Kiran</u>
21.	Yendait Varsha Sukdev	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>	<u>Varsha</u>
22.	Gaikwad Mayuri Sukdev	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>	<u>Mayuri</u>
23.	Pathan Fardeenfaujiya Tanvir Khan	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>
24.	Patil Pravin Chandrakant	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>	<u>Pravin</u>
25.	Thakare Komal Dnyaneshwar	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>
26.	Ushir Radhika Sakahari	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>	<u>Radhika</u>
27.	Shewale Shital Vasant	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>	<u>Shital</u>
28.	Chavan Mukta Shankar	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>	<u>Mukta</u>
29.	Nikam Neha Kailas	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>
30.	Dumbare Komal Kailas	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>	<u>Komal</u>



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



Minutes of Meeting

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001

Course Code: CCMP-001


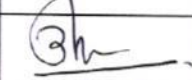
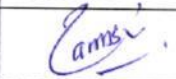
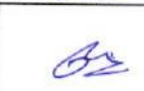
Academic Year: 2017-18

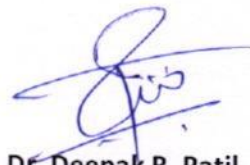
Meeting for taking feedback for the 'Certificate Course on MATLAB Programming' was held at the Department of electronics on **18th December, 2017 at 04:45 pm** after the successful completion of the certificate course. BoS chairman and all the members were present during the meeting. Following points 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	
2.	Mr. S. P. Khairnar	BoS Member – Vice-Principal	
3.	Mr. Ahetesham A. Vakil	BoS Member – IQAC Co-Ordinator	
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	
5.	Dr. Ganesh E. Patil	BoS Member – A. R. C.	
6.	Dr. Deepak R. Patil	BoS Member – Subject Expert	
7.	Dr. Tushar S. Salve	BoS Member – Subject Expert	
8.	Mr. O. M. Pardeshi	BoS Member – Subject Expert	

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



Dr. Deepak R. Patil
Co-ordinator



Mr. Ahetesham A. Vakil
IQAC Co-ordinator



Dr. G. H. Jain
PRINCIPAL
K.K.H.A. Art's, S.M.G.L. Comm.
& S.P.H.J. Science College,
Chandwad Dist. Nashik.



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.
2. 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

Dr. G. H. Jain

PRINCIPAL
K.K.H.A. Art's, S.M.G.L. Comm.
& S.P.H.J. Science College,
Chandwad Dist. Nashik.



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 17th Nov. 2017 to 04th 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
PRINCIPAL
K.K.H.A. Art's, S.M.G.L. Comm.
& S.P.H.J. Science College,
Chandwad Dist. Nashik.



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



MCQ Theory Exam (2017-18)

Unit 1. Introduction to MATLAB

Roll No.:

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

Q. Multiple Choice Questions. (Tick Correct Option)

[10 M]

- 1) Window is used to enter variables and run functions and M-files. [1]
1. Command Window 2. Command History 3. Figure Window 4. Document Window
- 2) command stores workspace values in the binary file [1]
1. Load 2. clc 3. save 4. clear
- 3) command is used to terminate the MATLAB. [1]
1. quit 2. exit 3. clear 4. Both a & b
- 4) `format short` command displays digits after decimal point. [1]
1. 4 2. 3 3. 5 4. 2
- 5) Variable names must start with [1]
1. symbol 2. letter 3. digit 4. underscore character
- 6) special variable is result of division of zero by zero. [1]
1. Inf 2. NaN 3. pi 4. eps
- 7) Arithmetic operator is used for left division. [1]
1. \div 2. \wedge 3. $/$ 4. \backslash
- 8) function is used for finding the sin of 'x'. [1]
1. `sin(x)` 2. `asin(x)` 3. `sinh(x)` 4. `asinh(x)`
- 9) notation is used to index array elements & generate array elements. [1]
1. (start : increment : start) 2. (end : increment : start)
3. (end : increment : end) 4. (start : increment : end)
- 10) is used to separate rows while creating matrix using [and] [1]
1. ; 2. : 3. , 4. |



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

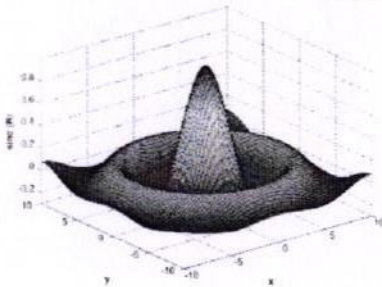
This certificate is awarded to

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



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
(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





ESTD - 1928

SNJB

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

Sr. College Code No.: 088

• Principal Mob.9423474476

Dr. G. H. Jain

Principal

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

(NAAC- RE-ACCREDITED 'B')

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

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

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

Dr. G. H. Jain

PRINCIPAL
K.K.H.A. Art's, S.M.G.L. Comm.
& S.P.H.J. Science College,
Chandwad Dist. Nashik.



S.N.J.B. ASHRAM'S
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SENIOR COLLEGE CHANDWAD, Dist.: Nashik, 423 101
Department of Electronic Science
Certificate Course on MATLAB Programming



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	Post in BoS	Sign
1.	Dr. G. H. Jain	Chairman – Principal	
2.	Mr. S. P. Khairnar	BoS Member – Vice-Principal	
3.	Mr. Ahetesham A. Vakil	BoS Member – IQAC Co-Ordinator	
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	
5.	Dr. Ganesh E. Patil	BoS Member – A. R. C.	
6.	Dr. Deepak R. Patil	BoS Member – Subject Expert	
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9.	Mr. C. B. Kumbharde	BoS Member – Dept. of Mathematics	
10.	Mr. M. P. Zanje	BoS Member – Dept. of Mathematics	
11.	Miss. Safoora J. Ansari	BoS Member – Dept. of Mathematics	
12.	Mr. Anil B. Patil, Assist. Professor, L.V.H. A.S.C. College, NASHIK.	BoS Member – Subject Expert from other college.	

Dr. Deepak R. Patil
Co-ordinator

Dr. T. S. Salve
HOD

Mr. Ahetesham A. Vakil
IQAC Co-ordinator

Dr. G. H. Jain
PRINCIPAL
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& S.P.H.J. Science College,
Chandwad Dist. Nashik.



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 **27th June, 2018 at 04:50 pm**. BoS chairman and all the members were present during the meeting. Following points were discussed during the meeting:

1. 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	
2.	Mr. S. P. Khairnar	BoS Member – Vice-Principal	
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Dr. Deepak R. Patil
 Co-ordinator


Mr. Ahetesham A. Vakil
 IQAC Co-ordinator


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



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

05 Hrs.

- Built-in Functions

- 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:

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



Dr. Deepak R. Patil
Co-ordinator



Dr. T. S. Salve
HOD



Mr. Ahetesham A. Vakil
IQAC Co-ordinator



Dr. G. H. Jain
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Chandwad Dist. Nashik.



Certificate Course on MATLAB Programming

Time Table

Academic Year 2018-19

Programme Code: ELECC-001

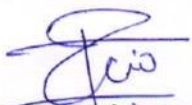
Course Code: CCMP-001

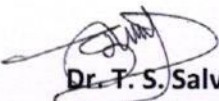
Days: 15


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 <ul style="list-style-type: none">The MATLAB Environment
		10:00 am to 11:00 am	Practical	
2.	04/12/2018	09:00 am to 10:00 am	Theory	<ul style="list-style-type: none">MATLAB Basics – Variables, Numbers, Operators
		10:00 am to 11:00 am	Practical	
3.	05/12/2018	09:00 am to 10:00 am	Theory	<ul style="list-style-type: none">MATLAB Basics – Expressions, Input and output.
		10:00 am to 11:00 am	Practical	
4.	06/12/2018	08:00 am to 09:00 am	Theory	<ul style="list-style-type: none">Vectors, Arrays – Matrices
		09:00 am to 10:00 am	Practical	
		10:00 am to 11:00 am	Exam	
5.	07/12/2018	09:00 am to 10:00 am	Theory	Unit 2. MATLAB Functions <ul style="list-style-type: none">Files and File Management – Import/ExportBuilt-in Functions
		10:00 am to 11:00 am	Practical	
6.	08/12/2018	08:00 am to 09:00 am	Theory	<ul style="list-style-type: none">User defined Functions
		09:00 am to 10:00 am	Practical	
		10:00 am to 11:00 am	Exam	
7.	10/12/2018	09:00 am to 10:00 am	Theory	Unit 3. Graphics with MATLAB <ul style="list-style-type: none">Basic 2D, 3D plots
		10:00 am to	Practical	

8.	11/12/2018	08:00 am to 09:00 am	Theory	<ul style="list-style-type: none"> Graphic handling MCQ Theory Exam – 30 minutes Practical Exam – 30 minutes.
		09:00 am to 10:00 am	Practical	
		10:00 am to 11:00 am	Exam	
9.	12/12/2018	09:00 am to 10:00 am	Theory	Unit 4. Programming with MATLAB <ul style="list-style-type: none"> Conditional Statements, Loops
		10:00 am to 11:00 am	Practical	
10.	13/12/2018	09:00 am to 10:00 am	Theory	<ul style="list-style-type: none"> MATLAB Programs – Programming and Debugging.
		10:00 am to 11:00 am	Practical	
11.	14/12/2018	09:00 am to 10:00 am	Theory	<ul style="list-style-type: none"> MATLAB Programs – Programming and Debugging.
		10:00 am to 11:00 am	Practical	
12.	15/12/2018	08:00 am to 09:00 am	Theory	<ul style="list-style-type: none"> Applications of MATLAB Programming. MCQ Theory Exam – 30 minutes Practical Exam – 30 minutes
		09:00 am to 10:00 am	Practical	
		10:00 am to 11:00 am	Exam	
13.	17/12/2018	09:00 am to 10:00 am	Theory	Unit 5. Mathematical Computing with MATLAB <ul style="list-style-type: none"> Algebraic equations
		10:00 am to 11:00 am	Practical	
14.	18/12/2018	09:00 am to 10:00 am	Theory	<ul style="list-style-type: none"> Basic Symbolic Calculus and Differential equations
		10:00 am to 11:00 am	Practical	
15.	19/12/2018	08:00 am to 09:00 am	Theory	<ul style="list-style-type: none"> Numerical Techniques and Transforms MCQ Theory Exam – 30 minutes Practical Exam – 30 minutes
		09:00 am to 10:00 am	Practical	
		10:00 am to 11:00 am	Exam	


Dr. Deepak R. Patil
Coordinator


Dr. T. S. Salve
HOD


Mr. Ahetesham A. Vakil
IQAC Co-ordinator


Dr. G. H. Jain
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Department of Electronic Science



Certificate Course on MATLAB Programming
List of Students 2018-19

Programme Code: ELECC-001

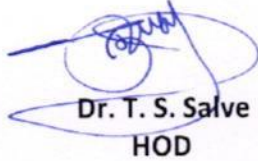
Course Code: CCMP-001

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 Bhausahab	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
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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 rd Dec. 2018	04 th Dec. 2018	05 th Dec. 2018	06 th Dec. 2018	07 th Dec. 2018	08 th Dec. 2018	10 th Dec. 2018	11 th Dec. 2018	12 th Dec. 2018	13 th Dec. 2018	14 th Dec. 2018	15 th Dec. 2018	17 th Dec. 2018	18 th Dec. 2018	19 th Dec. 2018
1.	Bhandari Nilesh Parasmal	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari
2.	Shinde Rushikesh Rameshwar	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde
3.	Shinde Shankar Bhagirath	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde
4.	Thakare Swapnil Gorakhnath	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare
5.	Bankar Akash Vishwasrao	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
6.	Pawar Vaibhav Raosaheb	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar
7.	Borgude Jayshree Ramdas	Borgude	Borgude	Borgude	Borgude	Borgude	Borgude	Borgude	Borgude	Borgude	Borgude	Borgude	Borgude	Borgude	Borgude	Borgude
8.	Jadhav Kishoree Balasaheb	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
9.	Khangal Harshada Sumanta	Khangal	Khangal	Khangal	Khangal	Khangal	Khangal	Khangal	Khangal	Khangal	Khangal	Khangal	Khangal	Khangal	Khangal	Khangal

10.	Thorat Monika Umesh	Thorat	Thorat	Thorat	Thorat	Thorat	Thorat	Thorat	Thorat	Thorat	Thorat	Thorat	Thorat	Thorat	Thorat	Thorat
11.	Thakare Pranjal Prakash	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare	Thakare
12.	Khairnar Shital Sanjay	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar	Khairnar
13.	Shirole Mrunalini Pandit	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole
14.	Shirole Nikita Eknath	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole	Shirole
15.	Kolhe Tejaswini Vasant	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe	Kolhe
16.	Deore Punam Bhausaheb	Deore	Deore	Deore	Deore	Deore	Deore	Deore	Deore	Deore	Deore	Deore	Deore	Deore	Deore	Deore
17.	Thombare Nishigandha Sahebrao	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare	Thombare
18.	Jadhav Rupa Raosaheb	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
19.	Chavan Anita Jagannath	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
20.	Jejure Dipika Shivaji	Jejure	Jejure	Jejure	Jejure	Jejure	Jejure	Jejure	Jejure	Jejure	Jejure	Jejure	Jejure	Jejure	Jejure	Jejure
21.	Bade Maya Dagu	Bade	Bade	Bade	Bade	Bade	Bade	Bade	Bade	Bade	Bade	Bade	Bade	Bade	Bade	Bade
22.	Sathe Tejaswini Dagu	Sathe	Sathe	Sathe	Sathe	Sathe	Sathe	Sathe	Sathe	Sathe	Sathe	Sathe	Sathe	Sathe	Sathe	Sathe
23.	Pagar Shradha Kailas	Pagar	Pagar	Pagar	Pagar	Pagar	Pagar	Pagar	Pagar	Pagar	Pagar	Pagar	Pagar	Pagar	Pagar	Pagar
24.	Badwar Vishakha Baburao	Badwar	Badwar	Badwar	Badwar	Badwar	Badwar	Badwar	Badwar	Badwar	Badwar	Badwar	Badwar	Badwar	Badwar	Badwar
25.	Shelke Snehal Balwant	Shelke	Shelke	Shelke	Shelke	Shelke	Shelke	Shelke	Shelke	Shelke	Shelke	Shelke	Shelke	Shelke	Shelke	Shelke
26.	Ahire Dipali Sanjay	Ahire	Ahire	Ahire	Ahire	Ahire	Ahire	Ahire	Ahire	Ahire	Ahire	Ahire	Ahire	Ahire	Ahire	Ahire
27.	Borse Hrushikesh Devchand	Borse	Borse	Borse	Borse	Borse	Borse	Borse	Borse	Borse	Borse	Borse	Borse	Borse	Borse	Borse
28.	Bargal Shruti Dattatray	Bargal	Bargal	Bargal	Bargal	Bargal	Bargal	Bargal	Bargal	Bargal	Bargal	Bargal	Bargal	Bargal	Bargal	Bargal
29.	Gade Rupali Lahanu	Gade	Gade	Gade	Gade	Gade	Gade	Gade	Gade	Gade	Gade	Gade	Gade	Gade	Gade	Gade
30.	Wagh Seema Ravindra	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh



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



Minutes of Meeting

Name of Programme: Certificate Course on MATLAB Programming

Type of Programme: Certificate Course

Programme Code: ELECC-001

Course Code: CCMP-001



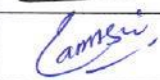
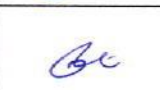
Academic Year: 2018-19

Meeting for taking feedback for the 'Certificate Course on MATLAB Programming' was held at the Department of electronics on **24th 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.	Mr. Ahetesham A. Vakil	BoS Member – IQAC Co-Ordinator	
4.	Dr. Manoj T. Patil	BoS Member – IQAC Secretary	
5.	Dr. Ganesh E. Patil	BoS Member – A. R. C.	
6.	Dr. Deepak R. Patil	BoS Member – Subject Expert	
7.	Dr. Tushar S. Salve	BoS Member – Subject Expert	
8.	Mr. O. M. Pardeshi	BoS Member – Subject Expert	

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



Dr. Deepak R. Patil
Co-ordinator



Mr. Ahetesham A. Vakil
IQAC Co-ordinator



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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: 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.
2. 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

Dr. G. H. Jain

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Department of Electronic Science
Certificate Course on MATLAB Programming



Summary Report

Name of Programme: Certificate Course on MATLAB Programming

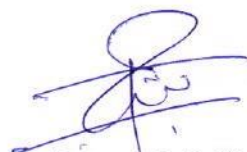
Type of Programme: Certificate Course


Programme Code: ELECC-001

Course Code: CCMP-001

Academic Year: 2018-19

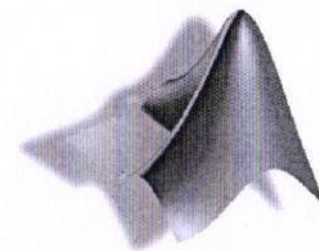
Certificate Course on MATLAB Programming was successfully conducted during 03rd Dec. 2018 to 19th Dec. 2018. Total 30 students of second and third year B.Sc. was successfully completed the course. Theory lectures was taken by Dr. Deepak R. Patil and practical session was supervised by Dr. Deepak R. Patil, 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
PRINCIPAL
K.K.H.A. Art's, S.M.G.L. Comm.
& S.P.H.J. Science College,
Chandwad Dist. Nashik.



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