1.2.1: Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

HEI Input: 62

Supporting Documents as per S.O.P. :

Institutional programme notice for Certificate/Value added programs with course modules and outcomes

MHALSAKANT MOHANRAO SARDESHMUKH

Digitally signed by MHALSAKANT MOHANRAO SARDESHMUKH
DN: cn=MHALSAKANT MOHANRAO SARDESHMUKH, c=IN, st=MAHARASHTRA, o=Jayawant Shikshan Prasarak Mandal, ou=private, serialNumber=bb90192922d0b1b15bf350e83cadc947e2afdb655d886a9f3f21d0461161b63b
Date: 2024.05.29 11:00:46 +05'30'

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune – 411041
Phone : +91 20 2460 8700, 701, 702 Email : director@jspmntc.edu.in Web : www.jspmntc.edu.in
Affiliated to Savitribai Phule Pune University. Approved by AICTE New Delhi and DTE Maharashtra.
DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

Institutional programme notice for Certificate/Value added programs with course modules and outcomes

Sr No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	**Course Code (if any)**	**Year of offering**	**Notice Digital Page No.**	**Course Module and Outcome Digital Page No.**
1	Analysis of structure using ETAB's	23SDETAB	2022-2023	8	50
2	Introduction to programming in C	2022COMPCP	2022-2023	9	53
3	Finite Element Analysis using ANSYS Software	23MECHFEA	2022-2023	10	54
4	Data Science for Engineers	23ETCDSE	2022-2023	13	57
5	Personality development /Employability skills workshop	23MBAPD	2022-2023	14	59
6	Cloud computing	23MCACICC	2022-2023	15	61
7	Advanced Geomatics Engineering	noc22-ce78	2022-2023	-	-
8	Remote Sensing and GIS for rural development	noc23-ce52	2022-2023	-	-
9	Introduction to programming in C		2022-2023	-	-
10	Programming In Java	noc23-cs49	2022-2023	-	-
11	Remote Sensing Essentials	noc23-ce15	2022-2023	-	-
12	Electronic Waste Management- issues and challenges	NA	2022-2023	-	-
13	Python for Data Science	NA	2022-2023	-	-
14	Ethical Hacking	NA	2022-2023	-	-
15	Introduction to Civil Engineering Profession	NA	2022-2023	-	-

16	ETAB's- A solution for structural Design	22SDETAB	2021-2022	17	65
17	Advanced C++ Programming	22COMPCPP	2021-2022	18	68
18	Project Based Analysis of Mechanical Components using ANSYS Workbech".	22MECHFEA	2021-2022	19	70
19	Machine Learning and Data Science	22ETCML	2021-2022	22	73
20	Adroid Application Development	22MCAAAD	2021-2022	23	75
21	Innovative Venture Plan	IVP 22	2021-2022	24	77
22	Digital Land Surveying And Mapping (DLS&M)	noc22-ce05	2021-2022		
23	Structural Design using ETAB's	20SDETAB	2020-2021	26	80
24	Python Programming	21COMPPY	2020-2021	27	80
25	Yoga for Mind		2020-2021	29	83
26	A Certificate Course on Finite Element Analysis using ANSYS Workbech	21MECHFEA	2020-2021	28	85
27	Data Analytics using Python	21ETCDAP	2020-2021	30	86
28	How do we keep adding learning and experiences from Day 1 of MBA	21MBALE	2020-2021	31	92
29	Parallel Computing	20MCAPC	2020-2021	32	94
30	Principles of Human Resource Management	noc20-mg15	2020-2021		
31	Data Base Management System	noc21-cs04	2020-2021		

32	MATLAB Simulink for System Modeling	20COMPMT	2019 -2020	34	99

33	Course on Pre-processing using Hypermesh	20MECHFEA	2019 -2020	35	101
34	Robotics using Arduino	20ETCRA	2019 -2020	36	104
35	Soft Skill & Personality Development	SSPD19	2019 -2020	37	106
36	Application of MATLAB in Civil Engineering	20MATLAB	2019 -2020	38	108
37	Red Hat Linux	MCARH	2019 -2020	39	110
38	Geotechnical Engineering Laboratory	noc19-ce36	2019 -2020	-	-
39	Data Base Management System	noc19-cs46	2019 -2020	-	-
40	Theory of Computation	noc19-cs79	2019 -2020	-	-
41	Programming In Java - Online	noc19-cs84	2019 -2020	-	-
42	Cloud Computing - Online	noc19-cs64	2019 -2020	-	-
43	Ethical Hacking - Online	noc19-cs68	2019 -2020	-	-
44	Switching Circuits and Logic Design - Online	noc19-cs74	2019 -2020	-	-
45	Introduction to Internet of Things - Online	noc19-cs65	2019 -2020	-	-
46	Programming, Data Structures And Algorithms Using Python	noc19-cs40	2019 -2020	-	-
47	Robotics	noc19-me74	2019 -2020	-	-
48	Basics of Communications & Employbility Skill Development	19BCESD	2018-2019	41	113
49	2D and 3D Solid Modelling using AutoCad	18CAD01	2018-2019	42	115
50	Artificial Intelligence	19COMPAI	2018-2019	43	118
51	Image Processing Using Python	19ETCIP	2018-2019	44	120
52	Communication and Soft Skill	CSS18	2018-2019	45	122

53	Machine Learning	MCAML	2018-2019	46	124
54	Interdisciplinary course on “Practical Finite Element Analysis using ANSYS & MATLAB	18MECHFEA	2018-2019	47	126
55	Programming in Java	noc19-cs07	2018-2019	-	-
56	Programming In C++	noc19-cs10	2018-2019	-	-
57	Introduction to Research	noc19-ge03	2018-2019	-	-
58	Patent Drafting for Beginners	noc19-hs01	2018-2019	-	-
59	IC Engines and Gas Turbines	noc19-me10	2018-2019	-	-
60	Product Design and Development	noc19-me21	2018-2019	-	-
61	Inspection and Quality Control in Manufacturing	noc19-me25	2018-2019	-	-
62	Material Science and Engineering	noc19-mm01	2018-2019	-	-
63	Wastewater Treatment and Recycling	noc18-ce26	2018-2019	-	-
64	Problem Solving through Programming in C	noc18-cs31	2018-2019	-	-
65	Programming in C++	noc18-cs32	2018-2019	-	-
66	Introduction to Programming in C	noc18-cs33	2018-2019	-	-
67	Programming, Data Structures and Algorithms using Python	noc18-cs34	2018-2019	-	-
68	Technical english for engineers	noc18-hs27	2018-2019	-	-
69	Engineering Metrology	noc18-me62	2018-2019	-	-

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Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

Institutional program notice for

Certificate/Value added courses offered

Jayawant Shikshan Prasarak Mandal's
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Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

JSPM'S Narhe Technical Campus, Narhe, Pune-41

2022-2023

Jayawant Shikshan Prasarak Mandal's
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DTE Code : 6755 **PUN Code** : CEGP019070 **AISHE Code** : C-45874

Date- 24/01/2023

NOTICE

All the students are here by informed that training program on **"Analysis of structure using ETAB"** will be starting from 1st Feb 2023. The students who are intersted for the training should enrolled their names to Prof. P. N. Patil

Prof. P. N. Patil

Course Coordinator

Dr. S. B. khaple

HOD

Head
Dept. of Civil Engg.
JSPM Narhe Tech. Campus,
Narhe, Pune - 41

J.S.P.M. Narhe Technical Campus Civil Narhe Pune-41

Jayawant Shikshan Prasarak Mandal's
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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Department of Computer Engineering

Academic Year 2022-23

NOTICE

All the students of Computer departmen are here by informed that "**Introduction to programming in C**" course will be starting from **1/2/23 to 28/2 /23** The students who are intersted for the course should enrolled their names to Ms.M.S.Namose.

Course Coordinator
Ms.M.S.Namose

HOD
Dr.N.A.Auti

JSPM Narhe Technical Campus Narhe, Pune-41

Head
Department of Computer Engineering
JSPM Narhe Technical Campus,
R.S.S.O.E. & R. Narhe, Pune-41104

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
Department of Mechanical Engineering
S. No. 12/2/2 and 14/9 Narhe, Tal : Haveli, Dist.: Pune - 411041
Phone : +91 20 2460 8700, 701, 702 Fax : +91 20 2460 8888
Affiliated to University of Pune. Approved by AICTE New Delhi and DTE Maharashtra.

DATE: 05/01/2023

To,
The Director,
JSPM Narhe Technical Campus,
Narhe, Pune.

Subject: - Add on course on "Finite Element Analysis using ANSYS Software"

Respected Sir,

Department of Mechanical Engineering has decided to organize Add on course on "Finite Element Analysis using ANSYS Software" for the period of 30 hours conducting from 07/01/2023. This add on course program is specially organized for Final Year students of Engineering to understand and perform analysis over mechanical engineering projects using ANSYS Workbench. The industry person will also call for lecture to discuss real life problem solved by ANSYS. This course will be helpful for students to pursue their final year projects. Following are the objectives to organize this workshop:

- To boost practical knowledge of students.
- To understand the application and use of FEA tool for structural and thermal problems.
- To understand the use of FEA tool to solve various real life projects.
- To perform static and dynamic analysis using ANSYS and correlation with analytical / experimental results.

We hope you will consider for the same and will show the positive response to conduct this add-on course.

Thanking You,

Course Coordinator

Prof. M. A. Kumbhalkar
H. O. D.
Mech. Engg. Dept.

Head
Department of Mechanical Engineering
JSPM Narhe Technical Campus
R.S.S.O.E.& R. Narhe, Pune - 411041.

Jayawant Shikshan Prasarak Mandal's
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Affiliated to University of Pune. Approved by AICTE New Delhi and DTE Maharashtra.

DATE: 05/01/2023

OFFICE ORDER

It is for kind information that, Prof. A. S. Patil is assigned as Coordinator and Expert for Add on course on **"Finite Element Analysis using ANSYS Software"** has arranged from **07/01/2023**. So accept the responsibility of the course and perform accordingly to accomplish the same.

JSPM NTC MECH ENGG. DEPT. NARHE

Prof. M. A. Kumbhalkar
H. O. D.
Mech. Engg. Dept.

Head
Department of Mechanical Engineering
JSPM Narhe Technical Campus
R.S.S.O.E.& R. Narhe, Pune - 411041.

Jayawant Shikshan Prasarak Mandal's
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Phone : +91 20 2460 8700, 701, 702 Fax : +91 20 2460 8888
Affiliated to University of Pune. Approved by AICTE New Delhi and DTE Maharashtra.

DATE: 05/01/2023

NOTICE

All the students of Mechanical Engineering are hereby informed that, an Add on course on **"Finite Element Analysis using ANSYS Software"** has arranged from **07/01/2023 (Saturday)**. The forum is open to understand analysis of mechanical engineering projects using ANSYS Workbench. So register your name for the course on or before 0**5/01/2023 (Thursday)** to Prof. A .S. Patil (Contact No: 7666267907)

Prof. M. A. Kumbhalkar
H. O. D.
Mech. Engg. Dept.

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45674

Date: 27/12/2022

Department of E & TC Engineering

Notice

All the TE & BE students are here by informed that our department is organizing Course on **Data Science for Engineers.** It will be starting from **9/01/2023 to 13/01/2023**. The students who are interested for the training should enroll their names to Program Coordinator Mrs. A. S. Patil.

Mrs. A. S. Patil
Program Coordinator

Dr. M. M. Sardeshmukh
H.O.D.

HEAD
Dept. of Electronics & Telcom. Engg.
JSPM Narhe Technical Campus,
Narhe, Pune - 411041

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Date- 3 April 2023

DEPARTMENT OF MBA

All the students of 1st and 2nd year MBA are hereby informed to attend the training on 'personality development/Employability skills workshop' which will be held from 5th April to 8th April 2023. The program will cover various aspects of soft skills such as Effective communication, Time management, Team work and Collaboration, etc.

Time: 8.30 AM to 4.30 PM (from 5th to 8th April 2023)

Venue: JSPM NTC, A Building, VC Hall.

After successful completion of workshop, students will be issued a completion certificate.

Note-

Students should attend the workshop in college uniform with college ID card. Attendance is mandatory.

Dean
MBA Department
JSPM Narhe Technical Campus
Narhe - 411 041

Course coordinator

Dean, MBA

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
S. No. 122/2 and 14/9 Narhe Tal. Haveli Dist. Pune – 411041
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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Date-2nd January 2023

NOTICE

All MCA Ist year students are here by informed that the training program of **"Career in cloud computing"** will be starting from 6th Jan 2023 to 18th Jan 2023. The students who are interested for the training should enrolled their names to Prof. A.N.Hajare

Prof.A.N. Hajare
Program Coordinator

Prof. Dr.S.S.Solanki
Dean MCA

Dean
Dept. of MCA
JSPM Narhe Technical Campus,
Narhe, Pune - 41

Jayawant Shikshan Prasarak Mandal's
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D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

JSPM'S Narhe Technical Campus, Narhe, Pune-41

2021-2022

Jayawant Shikshan Prasarak Mandal's
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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

DEPARTMENT OF CIVIL ENGINEERING

Date- 2/02/2022

NOTICE

All the students are here by informed that training program on **"ETAB's -A Solution for Structural Design"** will be starting from 14th Feb 2022. The students who are intersted for the training should enrolled their names to Prof. A.S. Jadhav

Prof. A. S. Jadhav
Program Coordinator

Dr. S. B. khaple
HOD

Head
Dept. of Civil Engg.
JSPM Narhe Tech. Campus,

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune – 411041
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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Department of Computer Engineering

Academic Year 2021-22

NOTICE

All the students of Computer departmen are here by informed that "**Advanced C++ Programming**" course will be starting from **1/2/22 to 28/2 /22** The students who are intersted for the course should enrolled their names to **Ms.J.S.Kharat.**

Course Coordinator
Ms. Ms.J.S.Kharat

HOD
Dr.M.D.Salunke
Head
Department of Computer Engineering
JSPM Narhe Technical Campus,
R.S.S.O.E. & R. Narhe, Pune-411041.

JSPM Narhe Technical Campus Pune-41

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
Department of Mechanical Engineering
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Phone : +91 20 2460 8700, 701, 702 Fax : +91 20 2460 8888
Affiliated to University of Pune. Approved by AICTE New Delhi and DTE Maharashtra.

DATE: 12/01/2022

To,
The Director,
JSPM Narhe Technical Campus,
Narhe, Pune.

Subject: - Add on course on "Project Based Analysis of Mechanical Components using ANSYS Workbech".

Respected Sir,

Department of Mechanical Engineering has decided to organize Add on course on "Project Based Analysis of Mechanical Components using ANSYS Workbech" for the period of 16 hours conducting on every working Saturday from 15/01/2022.

This add on course program is specially organized for Final Year students of Engineering to understand and perform analysis over mechanical engineering projects using ANSYS Workbench. The industry person will also call for lecture to discuss real life problem solved by ANSYS. This course will be helpful for students to pursue their final year projects.

Following are the objectives to organize this workshop:

- To boost practical knowledge of students.
- To understand the application and use of FEA tool for structural and thermal problems.
- To understand the use of FEA tool to solve various real life projects.
- To perform static and dynamic analysis using ANSYS and correlation with analytical /experimental results.

We hope you will consider for the same and will show the positive response to conduct this add-on course.

Thanking You,

Course Coordinator

JSPM NTC ★ NARHE ★ MECH ENGG. DEPT.

H. O. D.
Mech. Engg. Dept

Head
Department of Mechanical Engineering
JSPM Narhe Technical Campus
R.S.S.O.E.& R. Narhe, Pune - 411041.

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Affiliated to University of Pune. Approved by AICTE New Delhi and DTE Maharashtra.

DATE: 12/01/2022

NOTICE

All the students of Mechanical Engineering are hereby informed that, an Add on course on **"Project Based Analysis of Mechanical Components using ANSYS Workbench"** has arranged from **15.01.2022** The forum is open to understand analysis of mechanical engineering projects using ANSYS Workbench. So register your name for the course on or before **14/01/2022** to Prof. A. S. Patil

JSPM NTC ★ NARHE ★ MECH ENGG. DEPT.

H. O. D.
Mech. Engg. Dept.

Head
Department of Mechanical Engineering
JSPM Narhe Technical Campus
R.S.S.O.E.& R. Narhe, Pune - 411041.

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DATE: 12/01/2022

OFFICE ORDER

It is for kind information that, Prof. A. S. Patil is assigned as Coordinator and Expert for Add on course on **"Project Based Analysis of Mechanical Components using ANSYS Workbench"** has arranged from **15/01/2022.** So accept the responsibility of the course and perform accordingly to accomplish the same.

JSPM NTC NARHE MECH ENGG. DEPT.

H. O. D.
Mech. Engg. Dept.

Head
Department of Mechanical Engineering
JSPM Narhe Technical Campus
R.S.S.O.E.& R. Narhe, Pune - 411041.

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Prof.(Dr.)T. J.Sawant
B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.) R.K.Lad
B.E.(Civil),M.E.(Env.Engg.) Ph.D.(Engg.)
DIRECTOR

Date: 29/12/2021

Department of E & TC Engineering

Notice

All the TE & BE students are here by informed that our department is organizing Course on **Machine Learning and Data Science**. It will be starting from 3rd January 2022 to 7th January 2022. The students who are interested for the training should enroll their names to Program Coordinator Mrs. A. S. Patil.

Program Coordinator

Mrs. A. S. Patil

JSPM Narhe Technical Campus Pune-41 E & TC Deptt

H.O.D.

Dr. M. M. Sardeshmukh

HEAD
Dept. of Electronics & Telcom. Engg
JSPM Narhe Technical Campus,
Narhe, Pune - 411041

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Date-8th March 2022

NOTICE

All MCA Ist & II year students are here by informed that training program of **Android Application Development** will be starting from 12th March 2022. The students who are interested for the training should enrolled their names to Prof.S.M.Deshmukh

Prof. S.M.Deshmukh
Program Coordinator

Prof.Dr.S.S.Solanki
Dean MCA

Dean
Dept. of MCA
JSPM Narhe Technical Campus,
Narhe, Pune - 41

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
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D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.) S.A.Choudhari
B.E.(CWM),M.E.(WRE) Ph.D.(Engg.)
DIRECTOR

Date: 1 Jan 2022

NOTICE

All the 1 Year MBA students are here by informed that the training program on "Innovative Venture Plan will be starting from 6 Jan 2022. Those students who are interested the training should enrolled their names to Prof. Pratibha Rasal.

Prof. Pratibha Rasal
Program Coordinator

Dr. RK Singh
Dean MBA Dept

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune – 411041
Phone : +91 20 2460 8700, 701, 702 Email : director@jspmntc.edu.in Web : www.jspmntc.edu.in
Affiliated to Savitribai Phule Pune University. Approved by AICTE New Delhi and DTE Maharashtra.
DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

JSPM'S Narhe Technical Campus, Narhe, Pune-41

2020-2021

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
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Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.) R.K.Lad
B.E.(Civil),M.E.(Env.Engg.) Ph.D.(Engg.)
DIRECTOR

Date- 13th Aug 2020

NOTICE

All the third & final year students are here by informed that training program of **"Structural Design Using ETAB'S"** will be starting from 16th Aug 2020. The students who are intersted for the training should enrolled their names to Prof D. A. Zamre

Prof. D.A. Zamre
Program Coordinator

Dr. S. A Choudhari
HOD
Dept. of Civil Engg.
JSPM Narhe Tech. Campus,

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
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Department of Computer Engineering

Academic Year 2020-21

NOTICE

All the students of Computer departmen are here by informed that "**Python Programming**" course will be starting from **2/1/2021 to 28/1/2021** The students who are intersted for the course should enrolled their names to **Ms.J.S.Kharat.**

Course Coordinator
Ms.J.S.Kharat

HOD
Dr.N.M.Ranjan

Head
Department of Computer Engineering
JSPM Narhe Technical Campus,
R.S.S.O.E. & R. Narhe, Pune-411041.

JSPM Narhe Technical Campus Narhe, Pune-41

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Founder - Secretary

Prof.(Dr.) R.K.Lad
B.E.(Civil),M.E.(Env.Engg.) Ph.D.(Engg.)
DIRECTOR

DATE: 10/12/2020

Department of Mechanical Engineering (Second Shift)
A.Y. 2020-2021

NOTICE

All the students of Mechanical Engineering (Second Shift) are hereby informed that, an Add on course on **"A Certificate Course on Finite Element Analysis using ANSYSWorkbech"**has arrangedfrom **26/12/2020 (Saturday)**. The forum is open to understand analysis of mechanical engineering projects using ANSYS Workbench. So register your name for the course on or before **23/12/2020 (Wednesday)** to Dr. Manoj A. Kumbhalkar.

(Contact No: 9960863684)

Dr. M. A. Kumbhalkar
H. O. D.
Mech. Engg. Dept.
(Second Shift)

Head
Department of Mechanical Engineering
JSPM's Narhe Technical Campus
R.S.S.O.E & R. Narhe, Pune - 411 041

JayawantShikshanPrasarakMandal's

JSPM Narhe Technical Campus
Department of Mechanical Engineering

S. No. 12/2/2 and 14/9 Narhe, Tal : Haveli, Dist.: Pune - 411041
Phone : +91 20 2460 8700, 701, 702 Fax : +91 20 2460 8888 Web : www.jspmnntc.edu.in
Affiliated to University of Pune. Approved by AICTE New Delhi and DTE Maharashtra.

Date: 14-05-2021

NOTICE

All the SE, TE, and BE students of Mechanical Department are hereby informed that a 7 days yoga workshop is arranged on **Secrets of Yoga -Pranayama with Scientific Aspects by Mr. Kaushal Patidar** from 17th May 2021 to 23rd May 2021 from 7.00am-8.00am online on Zoom Platform. Zoom link will be shared on respective class what's app groups.

Dr. D. V.Bhise

HOD Head
Department of Mechanical Engineering
JSPM Narhe Techinical Campus
R.S.S.O.E.& R. Narhe, Pune - 411041.

Jayawant Shikshan Prasarak Mandal's
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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Date: 29/10/2019

Department of E & TC Engineering

Notice

All the TE & BE students are here by informed that our department is organizing Course on **Data Analytics using Python**. It will be starting from **2/11/2020 to 13/11/2020**. The students who are interested for the training should enroll their names to Program Coordinator Mrs. N. R. Kadam.

NRK

Mrs.N.R.Kadam

Program Coordinator

Dr. M. M. Sardeshmukh

H.O.D.

HEAD
Dept. of Electronics & Telcom. Engg.
JSPM Narhe Technical Campus,
Narhe, Pune - 411041

Jayawant Shikshan Prasarak Mandal's
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DEPARTMENT OF MBA

Date – 8 th May 2021

Notice

All the students of MBA are hereby informed that the department is organizing Expert training Session on "How do we keep adding learning and experiences from Day 1of MBA" from 10th to 14th May 2021.

Time-9.30 AM to 3.30 PM.

Zoom Meeting Ids will be shared on the session day. All students are informed to join the session on time, Kindly note that attendance is mandatory for this session.

Course Coordinator

Dean MBA

Dr. R. K. Singh

Dean
MBA Department
JSPM Narhe Technical Campus
Narhe - 411 041

Jayawant Shikshan Prasarak Mandal's
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Date- 5th Jan 2021

NOTICE

All MCA Ist year students are here by informed that training program of Parallel Computing will be starting from 11th January to 20 January 2021. The students who are interested for the training should enrolled their names to Prof S. R. Lende

Prof. S.R.Lende

Program Coordinator

Prof.Dr.S.S.Solanki

Dean MCA

Dean
Dept. of MCA
JSPM Narhe Technical Campus,
Narhe, Pune - 41

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
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Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

JSPM'S Narhe Technical Campus, Narhe, Pune-41

2019-2020

Jayawant Shikshan Prasarak Mandal's
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Department of Computer Engineering

Academic Year 2019-20

NOTICE

All the students of Computer departmen are here by informed that "**MATLAB Simulink for System Modeling**" course will be starting from **3/2/2020 to 28/2 /2020** The students who are intersted for the course should enrolled their names to **Mr.A.R.Uttarkar.**

Course Coordinator
Mr.A.R.Uttarkar

HOD
Dr.N.M.Ranjan

Head
Department of Computer Engineering
JSPM Narhe Technical Campus,
R.S.S.O.E. & R. Narhe, Pune-411041.

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
Department of Mechanical Engineering
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Date: 01/10/2019

Notice

All the students of BE Mechanical Engineering are hereby informed that **"Course on Pre-processing using Hypermesh"** is scheduled on **5th October, 2019**. The course will be conducted in association with **G2G Innovations Pvt. Limited, Pune.**

So all students register their name to Mr. Nand Jee Kanu on or before 4th October 2019.

Workshop Coordinator

JSPM NTC NARHE MECH ENGG. DEPT.

HOD
Mech. Engg. Dept.

Head
Department of Mechanical Engineering
JSPM Narhe Technical Campus
R.S.S.O.E.& R. Narhe, Pune - 411041.

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Date: 24/12/2019

Department of E & TC Engineering

Notice

All the TE & BE students are here by informed that our department is organizing Course on **Robotics using Arduino.** It will be starting from **6/01/2020 to 15/01/2020.** The students who are interested for the training should enroll their names to Program Coordinator Prof. H. N. Patil

Prof. H. N. Patil

Program Coordinator

Dr. M. M. Sardeshmukh

H.O.D.

HEAD
Dept. of Electronics & Telcom. Engg.
JSPM Narhe Technical Campus,
Narhe, Pune - 411041

Jayawant Shikshan Prasarak Mandal's
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Date-14th February 2020

DEPARTMENT OF MBA

NOTICE

All the students of MBA are hereby informed that training on 'Soft skill and personality development' is arranged in JSPMNTC. Details are mentioned below.

Dates: 17, 18, 19, 20 and 21 February 2020.

Time: 10.00 AM to 4.00PM

Venue: VC Hall, A building, JSPMNTC.

Note-

Attendance and I-card is mandatory.

Course coordinator

Dean, MBA

Dean
MBA Department
JSPM Narhe Technical Campus
Narhe - 411 041

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune – 411041
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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.) R.K.Lad
B.E.(Civil),M.E.(Env.Engg.) Ph.D.(Engg.)
DIRECTOR

Date- 05/02/2020

NOTICE

All the students of Civil Engineering are here by informed that, Department of civil engineering has arranged short term course on "**Application of MATLAB in Civil Engineering**" from 10th February 2020.The forum is open to learn hands on aspects of solving mathematical equations in civil engineering using standard tool MATLAB.So register your name for the course on or before 08/02/2020.

Venue : Civil CAD lab

Timing : 03:30 - 6:30 pm

Prof. V.P. Padmawar
Program Coordinator

Dr. S. A Choudhari
HOD

J.S.P.M. Narhe Technical Campus Civil Narhe Pune-41

Head
Dept. of Civil Engg.
JSPM Narhe Tech. Cam
Narhe, Pune-41

Jayawant Shikshan Prasarak Mandal's
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Date:01 /01/2020

Notice

All the students of MCA are here by informed that the course of **Red Hat Linux** will be conducted from 6th Jan 2020 to 16th Jan 2020.for MCA students.

Attendance is compulsory for lecture.

Time: 2:30 to 5:30 PM

Venue : MCA Department, B Building

Prof. A.M.Tekale

Program Coordinator

Dr.S.S.Solanki

Dean(MCA)

Dean
Dept. of MCA
JSPM Narhe Technical Campus,
Narhe, Pune - 41

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
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Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

JSPM'S Narhe Technical Campus, Narhe, Pune-41

2018-2019

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.) R.K.Lad
B.E.(Civil),M.E.(Env.Engg.) Ph.D.(Engg.)
DIRECTOR

Date : 01/02/2019

NOTICE

This is to inform all the students that the course of **Basics of Communication and Employability Skills Development** will be conducted from 4th Feb 2019. Register your name for the course to Prof Neelam V. Chaple.

Venue: Civil Department, B Building, Seminar Hall.

Chaple

Prof. Neelam V. Chaple
Program Coordinator

J.S.P.M. Narhe Technical Campus Civil Dept. Pune

Dr. S. A Choudhari
HOD

Head
Dept. of Civil Engg.
JSPM Narhe Technical Campus,

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
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D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.) R.K.Lad
B.E.(Civil),M.E.(Env.Engg.) Ph.D.(Engg.)
DIRECTOR

Date: 11July 2018

NOTICE

All the students of Mechanical and Civil Engineering are hereby informed that, Department of Mechanical and Civil Engineering has arranged an Interdisciplinary course on **"2D and 3D Solid Modeling using AutoCAD"** from 16 July 2018 The forum is open to learn hands on aspects of solid modeling using standard tool AutoCAD. So register your name for the course on or before 16 July 2018 to Prof. Bharat Aher, Mechanical Engineering Department and Prof. S.S. Deshpande, Civil Engineering Department.

Prof. S. S.Deshpande
Program Coordinator

Dr. S. A Choudhari
HOD
Dept. of Civil Engg.
JSPM Narhe Tech. Campus,

Jayawant Shikshan Prasarak Mandal's
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Department of Computer Engineering

Academic Year 2018-19

NOTICE

All the students of Computer departmen are here by informed that "**Artificial Intelligence**" course will be starting from **1/2/2019 to 28/2 /2019** The students who are intersted for the course should enrolled their names to Ms.M.S.Namose.

Course Coordinator
Ms.M.S.Namose

HOD
Dr.N.M.Ranjan
Head
Department of Computer Engineering
JSPM Narhe Technical Campus,
R.S.S.O.E. & R. Narhe, Pune-411041.

JSPM Narhe Technical Campus Narhe, Pune-41

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Date: 20/12/2018

Department of E & TC Engineering

Notice

All the TE & BE students are here by informed that our department is organizing Course on **Image Processing Using Python**. It will be starting from **7/01/2019 to 11/01/2019**. The students who are interested for the training should enroll their names to Program Coordinator Mrs. K. P. Wagh

Mrs. K. P. Wagh

Program Coordinator

Prof. H. N. Patil

H.O.D.

HEAD
Dept. of Electronics & Telcom. Engg.
JSPM Narhe Technical Campus,
Narhe, Pune - 411041

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Date- 1 March 2019

DEPARTMENT OF MBA

All the students of MBA are hereby informed that training on 'Communication and Soft Skill' is arranged in JSPMNTC. The program will cover various aspects of soft skills such as Effective communication, Time management, Team work and Collaboration, etc. Details are mentioned below.

Dates: 4 to 8 March 2019

Time: 9.30 AM to 3.30PM

Venue: JSPM NTC, B Building, MBA Dept. 3" Floor Seminar hall

Note-

Attendance and I-card is mandatory. Late comers will not be allowed

Course coordinator

Dean, MBA

Dean
MBA Department
JSPM Narhe Technical Campus
Narhe - 411 041

Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
S. No. 12/2/2 and 14/9, Narhe Tal : Haveli, Dist.: Pune – 411041
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Date:30/08/2018

Notice

All the students of MCA are here by informed that the course of **Machine Learning** will be conducted from 3rd sep 2018 to 13th sep 2018 for MCA students.

Attendance is compulsory for lecture.

Time: 3:30 to 5:30 PM

Venue : MCA Department, B Building

Prof. S.M. Deshmukh

Program Coordinator

Dr.S.S.Solanki

Dean(MCA)

Dean
Dept. of MCA
JSPM Narhe Technical Campus,
Narhe, Pune - 41

Jayawant Shikshan Prasarak Mandal's

JSPM Narhe Technical Campus
Department of Mechanical Engineering

S. No. 12/2/2 and 14/9 Narhe, Tal : Haveli, Dist.: Pune - 411041
Phone : +91 20 2460 8700, 701, 702 Fax : +91 20 2460 8888
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DATE: 29/06/2018

NOTICE

All the students of Mechanical and Civil Engineering are hereby informed that, Department of Mechanical Engineering has arranged an **Interdisciplinary course on "Practical Finite Element Analysis using ANSYS & MATLAB"** from **07/07/2018**. The forum is open to learn hands on experience of Finite Element Method using ANSYS. So register your name of for the course on or before **06/07/2018**

JSPM NTC ★ NARHE ★ MECH ENGG. DEPT.

H. O. D.
Mech. Engg. Dept

Head
Department of Mechanical Engineering
JSPM Narhe Technical Campus
R.S.S.O.E.& R. Narhe, Pune - 411041.

Attachment: Course content and syllabus of Interdisciplinary course on "Practical Finite Element Analysis using ANSYS & MATLAB"

Jayawant Shikshan Prasarak Mandal's
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D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

Institutional Program Course Modules and Outcomes for Certificate/Value added courses offered

Jayawant Shikshan Prasarak Mandal's
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Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

JSPM'S Narhe Technical Campus, Narhe, Pune-41

2022-2023

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : Analysis of Structure Using ETAB's

Course Code : 23-SDETAB

Instructor : Prof . P.N. Patil

CONTENTS

Session	Topic	Duration (Hrs)
Session 1	• Introduction to Structural Engineering • Use of Computer Aided Design in Civil Engineering • Applications of ETABS • Introduction to Interface of ETABS • Creating a New File and how to save it • Some basic commands o Generation of Grid o Editing Grid o Editing Storey Data o Insert Storey o Edit Grid Data	03
Session 2	• Introduction Support Systems in ETABS • Assigning Supports to Created Geometry • Creating Material Properties in ETABS • Defining Section Properties for Beams& Columns • Practice Session for Geometry Creation	03
Session 3	• Creating 2D Geometry of the Structure • Creating Beams Using Grid Created • Creating Columns • Creating Slab • Converting 2D Structure to 3D • Different Viewing Options in ETABS • Set Building View Command	03
Session 4	• Introduction to Types of Loads to be Applied on a Particular Building • Manual Load Calculations for The Given Project (by Trainer) • Calculations of Loads For All The Projects given(by Students)	03

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Session 5	• Application of Dead Load And Live Load (Member Loads) o Wall Loads o Parapet Load o Stair-Case Load o Projection Load o Water Tank Wall Load	03
Session 6	• Application of floor load dead as well as live load • Practice Sessions For Application of Floor Loads	02 01
Session 7	• Analysis of RCC structure and how to see o Bending Moment Diagram /Values o Shear Force Diagram /Values o Axial Force Diagram/Values o Support Reactions	03
Session 8	• RCC Design • How To See Failed Beams and Columns • Making All The Members Pass • Detailing Concepts Using ETABS Results	03
Session 9	• Application of Earthquake Load & Wind Load	03
Session 10	• Introduction to Shear Walls • Creating Shear walls • Assigning Material Properties and Section Properties to shear walls • Analysis and Design of shear wall	03

Prof. P. N. Patil

Program Coordinator

Dr. S. B. khaple

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Course Name : Analysis of Structure Using ETAB's

Course Code : 23-SDETAB

Program Outcome

Students will able to attain following knowledge and skill

1. To foster an ambitious desire to work in design field
2. To update knowledge about ETAB to understand design standards
3. Learn the importance of teamwork and effective communication in structural design projects, as well as how to collaborate with other engineers, architects, and stakeholders.
4. This program helps students to become more familiar with the advanced design techniques
5. Work on practical projects and case studies that simulate real-world scenarios, allowing you to apply the knowledge and skills gained throughout the course.

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : Introduction to Programming in C

Course Code : 2022CompCP

Instructor : Ms.M.S.Namose

CONTENTS

Programme Outcome: Students will able to develop a C program. Control the sequence of the program and give logical outputs. Implement strings in your C program. Store different data types in the same memory. Manage I/O operations in your C program. Repeat the sequence of instructions and points for a memory location

Course Coordinator
Ms.M.S.Namose

J.S.P.M. Narhe Technical Campus Narhe, Pune-41

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Dr.N.A.Auti

Head
Department of Compu... Narhe Techn... S.O.E. & R. Narh...

JSPM NARHE TECHNICAL CAMPUS, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING

Syllabus

Finite Element Analysis using ANSYS Software

Course Curriculum (30 Hrs.)

Chapter 1: Introduction to FEA and ANSYS Workbench

a) Introduction to the Finite Element Method
b) General Steps of the Finite Element Method
c) Explanation of 1D, 2D and 3D Elements with examples of ANSYS Elements
d) Need of FEM
e) Types of analysis that can be done using ANSYS
f) Advantages of the Finite Element Method
g) Limitations of FEA
h) ANSYS Workbench Overview
i) Mechanical Overview
j) The Workbench Environment
k) The Toolbox
l) The Project Schematic
m) Workbench File Management
n) Working with Units

Chapter 2: Design Modeler

a) Introduction to Design Modeler
b) Planes and Sketches
c) Modeling
d) CAD Connections
e) Beams and Shells
f) Lines and Surfaces

Chapter 3: Mechanical Basics

a) Basic Analysis Procedure
b) The Mechanical Interface
c) Outline Tree and Details
d) The Mechanical Application Wizard
e) Scoping Loads and Supports
f) The Engineering Data Application

Chapter 4: General Preprocessing

a) Geometry Branch
b) Contact
c) Meshing
d) Named Selections
e) Coordinate Systems
f) Remote Boundary Conditions
g) Selection Information
h) Workshop – Mesh Control

Chapter 5: Static Structural Analysis

a) Basics of Static Structural Analysis
b) Geometry
c) Material Properties
d) Analysis Settings
e) Nodal Loads and Supports
f) Solving Models
g) Results and Postprocessing
h) Fatigue Analysis

Chapter 6: Modal and Harmonic Analysis

a) Basics of Free Vibration
b) Geometry
c) Solution Setup
d) Static Extension to Modal Analysis
e) Vibration with Prestress
f) Static Extension to Harmonic Analysis
g) Time history information
h) Graphical representation of results

Chapter 7: Thermal Analysis

a) Basics Steady State Heat Transfer
b) Geometry
c) Material Properties
d) Thermal Contact
e) Thermal Boundary Conditions
f) Solution Options
g) Results and Postprocessing

Chapter 8: Results and Postprocessing

a) Viewing Results
b) Scoping Results
c) Exporting Results
d) Coordinates Systems
e) Solutions Combinations
f) Stress Singularities
g) Error Estimation
h) Convergence
i) Workshops

Mode of Evaluation: Quiz/Assignment/ Seminar/Written Examination

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Department of Mechanical Engineering

A.Y. 2022-23

Finite Element Analysis using ANSYS Software

Program Outcomes for on course on Finite Element Analysis using ANSYS Software

There were several lessons to be learned from this course some of which are briefly described below with regards to the use of FE technique in project. Some of the more general learning outcomes relative to solved project were:

Mesh density:

- The number of elements/nodes affect whether the solution has converged
- The engineer needs to determine what the convergence criteria will be and what tolerance is acceptable
- No effort was made to create mapped meshes or reduce the element count while retaining mesh convergence
- Mesh density is critical to obtaining a reasonable FEA simulation result

Element type

- Limitations from using assumptions such as plane-stress need to be considered since they may affect the results particularly if there are other stress components due to other loads
- Effect of higher order, lower order elements, or other elements options such as reduced integration must be understood by the engineer.
- The choice of element type (HO, LO, visco-elastic, etc.) and options (plane-stress/strain, reduced integration, etc.) are also critical to obtaining a reasonable FEA simulation result
- Although higher order elements can be better suited to curved surfaces with its mid-side node, lower order elements are often suggested for plasticity which was not an aspect for this project.

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Course Name: **Data Science for Engineers.**

Instructor: 1. Mrs. N. R. Kadam

2. Mrs. S. N. Pawar

Session	Date	Topic	Duration (in Hrs)
Session 1	9-01-2023	Linear algebra for data science	2
Session 2	9-01-2023	Algebraic view - vectors, matrices, product of matrix & vector,	2
Session 3	9-01-2023	Algebraic view - rank, null space, solution of over-determined set of equations and pseudo-inverse)	2
Session 4	10-01-2023	Geometric view - vectors, distance, projections, eigen value decomposition	2
Session 5	10-01-2023	Statistics descriptive statistics,	2
Session 6	10-01-2023	notion of probability, distributions, mean,	2
Session 7	11-01-2023	variance, covariance, covariance matrix, understanding univariate and multivariate normal distributions, introduction to hypothesis testing, confidence interval for estimates	2
Session 8	11-01-2023	Optimization	2
Session 9	11-01-2023	Typology of data science problems and a solution framework	2
Session 10	12-01-2023	Simple linear regression and verifying assumptions used in linear regression	2
Session 11	12-01-2023	Multivariate linear regression, model assessment,	2
Session 12	12-01-2023	assessing importance of different variables, subset selection	2
Session 13	13-01-2023	Classification using logistic regression	2
Session 14	13-01-2023	Classification using kNN and k-means clustering	2
Session 15	13-01-2023	Density based method: Density-Based Spatial Clustering	2

Mrs. A. S. Patil
Program Coordinator

Dr. M. M. Sardeshmukh
H.O.D.

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Name of the Course: Data Science for Engineers

Course Code: 23ETCDSE

Program Outcome

Student will able to attain following knowledge and skill

1. Students will be able to describe a flow process for data science problems (Remembering)
2. Classify data science problems into standard typology (Comprehension)
3. Develop R codes for data science solutions (Application)
4. Correlate results to the solution approach followed (Analysis)
5. Assess the solution approach (Evaluation)
6. Construct use cases to validate approach and identify modifications required (Creating)

Program Coordinator
Mrs. A. S. Patil

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : Personality Development/Employability skills workshop

Course Code: 23MBAPD

Trainer: Mr.Mahesh Raju

Organized by: Rubicon under lifeskill programme

CONTENTS

Session	Topic	Duration (Hrs)
Session 1	Expectation setting & Ice breaking, Organizational Structure	08
Session 2	SWOT Analysis, Presentation Skills, E-mail Etiquette,	08
Session 3	Corporate Jargons, Public Speaking & Telephone Etiquette Grooming & Body language	08
Session 4	Group Discussion & Personal Interview	08
	Total	32

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Course co-ordinator

Dean MBA

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : Personality Development/Employability skills workshop

Course Code: 23MBAPD

Trainer: Mr.Mahesh Raju

Organized by: Rubicon under lifeskill programme

Program Outcome

1.Students will recognize the importance of lifelong learning and professional development, seeking out opportunities for skill enhancement, further education, and career advancement throughout their professional journey.

2. Students will gain a deeper understanding of their strengths, weaknesses, values, and personality traits, enabling them to make informed career choices and align their personal and professional goals.

3. Students will develop strong communication skills, including verbal, non-verbal, and written communication, enabling them to articulate their ideas, express themselves confidently, and engage effectively with others in various professional settings.

4. Students will develop critical thinking and problem-solving skills to analyze complex issues, evaluate alternative solutions, and make informed decisions, contributing to innovative problem-solving in the workplace.

Course co-ordinator

Dean MBA

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Affiliated to Savitribai Phule Pune University, Approved by AICTE New Delhi and DTE Maharashtra
DTE Code : 6755 PUN Code : CEGP019078 AISHE Code : C-45874

Course Name : Career in cloud computing

Course Code : 22MCACICC

Instructor : Prof A . N. Hajare

Chief guest:- Mr.Vishal Verma

Program Outcome:

After attending the program students will be able

1. To understand the principles and paradigm of Cloud Computing .
2. Ability to design and deploy Cloud Infrastructure .
3. Understand cloud security issues and solutions .
4. Ability to understand role of Virtualization Technologies .
5. Design & develop backup strategies for cloud data based on features.

CONTENTS

Session	Topic	Duration (Hrs)
Session 1	• **Cloud Computing fundamentals** • Essential characteristics, • Architectural Influences, • Technological Influences, and • Operational Influences. •	02
Session 2	**Cloud Computing Architecture** • : Cloud Delivery models, • The SPI Framework, • Cloud Software as a Service (SaaS) , • Cloud Platform as a Service(PaaS), • Cloud Infrastructure as a Service(IaaS), • Cloud deployment models, • Public Clouds, Community Clouds, • Hybrid Clouds, • Alternative Deployment models, • Expected benefits.	03
Session 3	• **Cloud Computing Software Security fundamentals:** • Cloud Information Security Objectives, • Confidentiality, • Integrity, Availability, • Cloud Security Services, • Relevant Cloud Security Design Principles,	02

	• Secure Cloud Software Requirements, • Secure Development practices, • Approaches to Cloud Software Requirement Engineering, Cloud Security Policy Implementation.	
Session 4	• Practice Sessions on **Software Security** •	01
Session 5	• **Cloud Computing Risk Issues** • The CIA Traid, • Privacy and Compliance Risks, • Threats to Infrastructure, • Data and Access Control, • Cloud Access Control Issues, Cloud Service Provider Risks.	02
Session 6	• Cloud Computing Security Architecture • : Architectural Considerations, • General Issues, • Trusted Cloud Computing, • Secure Execution environments and Communications, Micro architectures, • Identity Management and Access Control, • Autonomic Security.	02
Session 7	• **SYSTEM SECURITY** • Intruders, Intrusion Detection, • Password Management, • Viruses and Related Threads, • Virus Counter Measure, • Firewall Design principles, • Trusted Systems.	02
Session 8	**CLOUD STORAGE** • Describe the overall organization of data and storage. • . List the various types of data within the data taxonomy and classify different data types within the data taxonomy. • Identify the problems of scale and management in big data. Discuss various storage abstractions. • Compare and contrast Hadoop Distributed File System (HDFS) with Ceph File System (CephFS.	02
Session 9	• **Practice Sessions on SYSTEM SECURITY**	02
Session 10	• **Programming Models** • students study data-parallel analytics along with Hadoop MapReduce (YARN), • distributed programming for the cloud,	02

	• graph parallel analytics (with GraphLab 2.0), • and iterative data-parallel analytics (with Apache Spark).	
Session 11	• **Virtualization (with Case Studies)** • case studies on Software Defined Storage (SDS), • Software Defined Networks (SDN), and Amazon EC2.	02
Session 12	• **Cloud Big Data Analytics Services** • Data Science and Big Data Characteristics • Data Collection, Mining, and Analytics on Clouds • Example: Big Data Analytics for Healthcare Applications • Example: Big Data Analytics for Social Media Applications	02
Session 13	**Cloud Streaming Big Data Analytics Services** • Scientific Streams Examples • Basic Design Challenges of Streaming Systems • Data Stream Analytics Frameworks	02
Session 14	**Cloud Machine Learning Services** • Taxonomy of Machine Learning Methods • Unsupervised Machine Learning Algorithms • Clustering and Dimensionality Reduction Methods • Model Development and Selection for Machine Learning	02
Session 15	**Cloud Deep Learning Services** • Artificial Intelligence and Smart Machine Development • Text and Image Recognition Using ANN and CNN • Google TensorFlow for Neural Network Computing • Predictive Software Libraries for Cognitive Applications	02

Prof.A.N. Hajare

Program Coordinator

Prof. Dr.S.S.Solanki

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Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

JSPM'S Narhe Technical Campus, Narhe, Pune-41

2021-2022

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : "**ETAB's -A Solution for Structural Design**"

Course Code : 23-SDETAB

Instructor : Prof . K. B. Narwade

CONTENTS

Session	Topic	Duration (Hrs)
Session 1	• Introduction to Structural Engineering • Use of Computer Aided Design in Civil Engineering • Applications of ETABS • Introduction to Interface of ETABS • Creating a New File and how to save it • Some basic commands o Generation of Grid o Editing Grid o Editing Storey Data o Insert Storey o Edit Grid Data	03
Session 2	• Introduction Support Systems in ETABS • Assigning Supports to Created Geometry • Creating Material Properties in ETABS • Defining Section Properties for Beams& Columns • Practice Session for Geometry Creation	03
Session 3	• Creating 2D Geometry of the Structure • Creating Beams Using Grid Created • Creating Columns • Creating Slab • Converting 2D Structure to 3D • Different Viewing Options in ETABS • Set Building View Command	03
Session 4	• Introduction to Types of Loads to be Applied on a Particular Building • Manual Load Calculations for The Given Project (by Trainer) • Calculations of Loads For All The Projects given(by Students)	03

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Session 5	• Application of Dead Load And Live Load (Member Loads) o Wall Loads o Parapet Load o Stair-Case Load o Projection Load o Water Tank Wall Load	03
Session 6	• Application of floor load dead as well as live load • Practice Sessions For Application of Floor Loads	02 01
Session 7	• Analysis of RCC structure and how to see o Bending Moment Diagram /Values o Shear Force Diagram /Values o Axial Force Diagram/Values o Support Reactions	03
Session 8	• RCC Design • How To See Failed Beams and Columns • Making All The Members Pass • Detailing Concepts Using ETABS Results	03
Session 9	• Application of Earthquake Load & Wind Load	03
Session 10	• Introduction to Shear Walls • Creating Shear walls • Assigning Material Properties and Section Properties to shear walls • Analysis and Design of shear wall	03

Prof. A. S. Jadhav

Program Coordinator

J.S.P.M. Narhe Technical Campus

Dr. S. B. khaple

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Course Name : "ETAB's -A Solution for Structural Design"

Course Code : 23-SDETAB

Program Outcome

Students will able to attain following knowledge and skill

1. Learn to perform linear and nonlinear structural analysis, including static and dynamic analyses. Understand the significance of these analyses in design
2. Gain experience in designing structural components like beams, columns, slabs, and foundations, using ETABS. Learn about design codes and how to apply them.
3. Gain experience in creating design reports, drawings, and documentation that are essential for structural design projects
4. Develop problem-solving skills to troubleshoot common issues encountered in structural design and analysis using ETABS.
5. To pursue a lifelong career in design field and professional growth for betterment of society.

Prof. A. S. Jadhav

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Dr. S. B. khaple

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Course Name : Advanced C++ Programming

Course Code : 22COMPCPP

Instructor : Ms.J.S.Kharat

CONTENTS

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Programme Outcome: Students are able to gain a foundation for writing efficient, safe C++ code.Learn how to use STL libraries.Understand memory pitfalls in C++.Know how to expand the C++ memory model. Utilize object-oriented for analysis and design. Apply multiple inheritance to an application. Understand how streams work.

JSK

Course Coordinator
Ms.J.S.Kharat

m.d.Salunke

HOD
Dr.M.D.Salunke

Head
Department of Computer Engineering
JSPM Narhe Technical Campus,
R.S.S.O.E. & R. Narhe, Pune-411041.

Course Name: Add-on Course on "Project Based Analysis of Mechanical Component using ANSYS Workbench"

PO Addressed: PO1, PO3, PO6, PO11, PO12

PO1.	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO3.	**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO6.	**The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO11.	**Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12.	**Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

CO Addressed are-

CAD/CAM and Automation Subject – CO3

CO3. Find stresses and displacements of 1D and 2D problems by using FEA.

Project Stage-I & II – CO1

CO1 Implement suitable methodology to solve the Problems pertaining to the mechanical engineering by utilizing the knowledge gained during the curriculum.

Purpose- To apply modern analysis tool for the analysis of mechanical components in various domain like design strength analysis, thermal analysis, analysis for composite material, etc.

Course Outcome:

Students should be able,

CO1. to apply knowledge for analysis of mechanical components using FEA Package.

CO1. to do static and dynamic structural, thermal, thermo-mechanical, fluid, fatigue analysis of complex three dimension model.

CO3. to demonstrate the ability to evaluate and interpret FE analysis results for design and evaluation purposes.

Establish the correlation between the Courses and the Program Outcomes (POs)

CO	PO1	PO3	PO6	PO11	PO12
CO1	3	3	2	1	2
CO2	3	2	2	1	3
CO3	3	2	3	3	1

Justification for mapping CO to corresponding PO

Course Outcome (CO)	Mapped PO	Justification
CO1	PO1, PO3, PO6, PO11,PO12	Apply engineering knowledge by solving problem (PO1, PO3) Understanding of design concept for analysis using finite element package (PO6, PO11, PO12)
CO2	PO1, PO3, PO6, PO11,PO12	Apply engineering knowledge to analyze mechanical model. (PO1, PO3) Practical significance by analyzing in various way like static structural, fatigue etc. (PO6, PO11, PO12).
CO3	PO1, PO3, PO6, PO11,PO12	Apply engineering knowledge by solving problem (PO1, PO3) Interpretation of results for stresses and displacements of 1D, 2D and 3D problems. (PO6, PO11, PO12)

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Department of Mechanical Engineering

A.Y. 2021-22

Project Based Analysis of Mechanical Components using ANSYS Workbench

Program Outcomes for on course on "Project Based Analysis of Mechanical Components using ANSYS Workbench

There were several lessons to be learned from this course some of which are briefly described below with regards to the use of FE technique in project. Some of the more general learning outcomes relative to solved project were:

Mesh density:

- The number of elements/nodes affect whether the solution has converged
- The engineer needs to determine what the convergence criteria will be and what tolerance is acceptable
- No effort was made to create mapped meshes or reduce the element count while retaining mesh convergence
- Mesh density is critical to obtaining a reasonable FEA simulation result

Element type

- Limitations from using assumptions such as plane-stress need to be considered since they may affect the results particularly if there are other stress components due to other loads
- Effect of higher order, lower order elements, or other elements options such as reduced integration must be understood by the engineer.
- The choice of element type (HO, LO, visco-elastic, etc.) and options (plane-stress/strain, reduced integration, etc.) are also critical to obtaining a reasonable FEA simulation result
- Although higher order elements can be better suited to curved surfaces with its mid-side node, lower order elements are often suggested for plasticity which was not an aspect for this project.

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Prof.(Dr.)T. J.Sawant
B.E., B.E. (Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.) R.K.Lad
B.E.(Civil),M.E.(Env.Engg.) Ph.D (Engg.)
DIRECTOR

Course Name: **Machine Learning and Data Science.**

Instructor: 1. Dr. M. M. Sardeshmukh

2. Mrs. S. N. Pawar

Session	Date	Topic	Duration (in Hrs)
Session 1	3-01-2022	Overview of statistical linear models	2
Session 2	3-01-2022	Overview of residuals	2
Session 3	3-01-2022	Overview of regression inference	2
Session 4	4-01-2022	Generalized linear models, logistic regression	2
Session 5	4-01-2022	Interpretation of odds and odds ratios	2
Session 6	4-01-2022	Maximum likelihood estimation in Poisson regression	2
Session 7	5-01-2022	Maximum likelihood estimation in logistic regression	2
Session 8	5-01-2022	Interpreting logistic regression	2
Session 9	5-01-2022	Visualizing fitting logistic regression curves	2
Session 10	6-01-2022	Support Vector Machine classification algorithm	2
Session 11	6-01-2022	Introduction to ensemble and its techniques	2
Session 12	6-01-2022	Bagging and Bootstrap ensemble methods	2
Session 13	7-01-2022	Overview of clustering and unsupervised learning	2
Session 14	7-01-2022	Introduction to clustering methods :Partitioning methods K-Means algorithm	2
Session 15	7-01-2022	Density based method: Density-Based Spatial Clustering	2

Program Coordinator

Mrs. A. S. Patil

JSPM Narhe Technical Campus Pune-41 E & TC Dept

H.O.D.

Dr. M. M. Sardeshmukh

HEAD
Dept. of Electronics & Telecom. Engg.
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Prof.(Dr.) R.K.Lad
B.E.(Civil),M.E.(Env.Engg.),Ph.D.(Engg.)
DIRECTOR

Name of the Course: Machine Learning and Data Science

Course Code: 22ETCML

Program Outcome

Student will able to attain following knowledge and skill

1. Students will become proficient in the statistical analysis of data and the use of computation tools for data analysis.
2. Students will apply statistical and computational tools to applied problems.
3. Students will clearly communicate the results in both written reports and oral presentations.
4. Students will understand the importance of proper data management.
5. Students will be documentation of work to allow reproducibility of results, and how to assess the ethical considerations of a data science project.

Program Coordinator

Mrs. A. S. Patil

H.O.D.

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : Android Application Development

Course Code : 22MCAAAD

Instructor : Prof.S.M.Deshmukh

CONTENTS

Sr.No	Topic	Duration (Hrs)
1	• Introduction to mobile computing, installing of required software and preparingtheworkingenvironment,creatingyour firstAndroid Application • Layouts,Views, Resources • Activities, Intents	6
2	• Background tasks, Connecting to the Internet • Fragments,Preferences • User Interaction – input, menu items, custom views • User Experience – themes and styles, material design, adaptive layouts,accessibility,localization,debuggingthe UI	12
3	• Storing Data,SQLite database • Sharing Data, content resolvers and providers, loaders to load data • Services, background work, alarms, broadcast receivers	12

Program Outcome:

1. Strongly mapped as students will be able to gain the knowledge of mobile application development using Android development environment.
2. Strongly mapped as designing and implementation is required to build the mobile application.
3. Slightly mapped as students will be able to gain the knowledge of storing, sharing and retrieving the data in Android Application.
4. Moderately mapped as students learn modern IDE tools to develop android applications (Android development environment).
5. Strongly mapped as students will be able to create mobile application using activity, views, services, content providers and receivers

Prof.S.M.Deshmukh
Program Coordinator

Prof.Dr.S.S.Solanki
Dean MCA

Dean
Dept. of MCA
JSPM Narhe Technical Campus,
Narhe, Pune - 41

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Founder - Secretary

Prof.(Dr.) S.A.Choudhari
B.E.(CWM),M.E.(WRE) Ph.D.(Engg.)
DIRECTOR

Course Name; Innovative Venture Plan
Course Code: IVP 22
Instructor:

1. Mr. Sagar Satish Waghmode
2. Mr. Amarsingh Rajpurohit

Contents

Session l	The entrepreneur, Profile analysis, behavior and motivations Lean Start -up, The entrepreneurial ecosystem, Entrepreneurs and strategic decisions	Duration (Hr)
Session 2	Sustainability of Entrepreneurship: Dilemmas of an entrepreneur for success; Handling doubts on survival of business	03
Session 3	Causes of failure-Product/ market, financing, managerial Resilience. Legal Fundamentals	03
Session 4	Entrepreneurial Opportunity Search and Identification; Market Intelligence, Market analysis, Market research. Customer validation, developing your business model	03
Session 5	Go-to-Market Strategy. The role of selling in a startup, Sales forecasting for startups.	03
Session 6	Planning/Budgeting, Developing a financial roadmap, financial statements: the four components, How to budget for startup success, Bootstrapping and alternative sources of funding.	03
Session 7	Building and managing the founder team, Attracting and retaining the right people. The Team - Board/Governance. The role of a successful board.	03
Session 8	Legal Matters- Organizational form-partnership, sole proprietorship, Tax, Legal expenses, hiring the service Employee providers. management and leadership in the workforce.	03
Session 9	Need & Objectives, Target audience. Contents - Cover page and table of contents, Executive summary, Description of the current situation.	03
Session l0	Business Plan - Elevator pitch, Building a strong presentation, innovative methods of presenting a business plan -mind map, animated videos, etc. funding requirements, Risk analysis and possible exit strategies.	03

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Course Name : **Innovative Venture Plan**

Course Code : **IVP 22**

Trainer : **1. Mr.Sagar Satish Waghmode**

2. Mr.Amarsingh Rajpurohit

Program Outcome

1. Students will demonstrate the ability to identify and evaluate opportunities for innovation and entrepreneurship, leveraging market research, trend analysis, and customer insights to uncover unmet needs or untapped markets.
2. Students will generate creative and original business ideas that address identified opportunities, employing techniques such as brainstorming, design thinking and problem-solving to generate innovative solutions.
3. Students will develop a comprehensive business plan for their innovative venture, including elements such as market analysis, competitive positioning, value proposition, revenue model, marketing strategy, operational plan, and financial projections.
4. Students will demonstrate the feasibility and viability of their venture through rigorous analysis and validation of key assumptions, market demand, scalability, resource requirements, and potential risks and challenges.
5. Students will create prototypes or minimum viable products to test and iterate on their business concept, gathering feedback from potential customers, stakeholders, and mentors to refine their value proposition and business model.

Course co-ordinator

Dean MBA

MBA Department
JSPM Narhe Technical Campus
Narhe - 411 041

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Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

JSPM'S Narhe Technical Campus, Narhe, Pune-41

2020-2021

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : Structural Design using ETAB's

Course Code : 20SDETAB

Instructor : Prof . D.A. Zamre

CONTENTS

Session	Topic	Duration (Hrs)
Session 1	• Introduction to Structural Engineering • Use of Computer Aided Design in Civil Engineering • Applications of ETABS • Introduction to Interface of ETABS • Creating a New File and how to save it • Some basic commands o Generation of Grid o Editing Grid o Editing Storey Data o Insert Storey o Edit Grid Data	03
Session 2	• Introduction Support Systems in ETABS • Assigning Supports to Created Geometry • Creating Material Properties in ETABS • Defining Section Properties for Beams& Columns • Practice Session for Geometry Creation	03
Session 3	• Creating 2D Geometry of the Structure • Creating Beams Using Grid Created • Creating Columns • Creating Slab • Converting 2D Structure to 3D • Different Viewing Options in ETABS • Set Building View Command	03
Session 4	• Introduction to Types of Loads to be Applied on a Particular Building • Manual Load Calculations for The Given Project (by Trainer) • Calculations of Loads For All The Projects given(by Students)	03

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Session 5	• Application of Dead Load And Live Load (Member Loads) o Wall Loads o Parapet Load o Stair-Case Load o Projection Load o Water Tank Wall Load	03
Session 6	• Application of floor load dead as well as live load • Practice Sessions For Application of Floor Loads	02 01
Session 7	• Analysis of RCC structure and how to see o Bending Moment Diagram /Values o Shear Force Diagram /Values o Axial Force Diagram/Values o Support Reactions	03
Session 8	• RCC Design • How To See Failed Beams and Columns • Making All The Members Pass • Detailing Concepts Using ETABS Results	03
Session 9	• Application of Earthquake Load & Wind Load	03
Session 10	• Introduction to Shear Walls • Creating Shear walls • Assigning Material Properties and Section Properties to shear walls • Analysis and Design of shear wall	03

Prof. D. A. Zamre

Program Coordinator

Dr. S. A. Choudhari

HoD
Dept. of Civil Engg.
JSPM Narhe Tech. Campus,
Narhe, Pune - 41

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : Structural Design using ETAB's

Course Code : 20SDETAB

Program Outcome

Students will able to attain following knowledge and skill

1. Learn to use ETABS for creating, analyzing, and designing structural models. This includes mastering the software's interface, tools, and features
2. Acquire skills in modeling various types of structures, such as buildings, bridges, and towers, within ETABS. Learn to define different structural elements like beams, columns, slabs, and walls.
3. Understand how to define different types of loads (e.g., dead loads, live loads, wind loads, seismic loads) and create appropriate load combinations according to building codes and standards.
4. To pursue a lifelong career in design field and professional growth for betterment of society
5. This program helps students to become more familiar with the advanced design techniques

Prof. D. A. Zamre

Program Coordinator

Dr. S. A. Choudhari

HOD

J.S.P.M. Narhe Technical Campus Pune-41

Head
Dept. of Civil Engg.
JSPM Narhe Tech. Cam.
Narhe, Pune - 41

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : Python Programming
Course Code : 21COMPPY
Instructor :Ms.J.S.Kharat
Programme Outcome: Students will understand how to use variables.work with common Python data types like integers, floats, strings, characters, lists, dictionaries, as well as pandas DataFrames.use basic flow control, including for loops and conditionals.read data from text files.obtain basic summary statistics from data files.

CONTENTS

Session	Topic	Duration (Hrs)
Session 1	Chapter 1:Introduction to Python What is Python and history of Python? Unique features of Python Python-2 and Python-3 differences Install Python and Environment Setup First Python Program Python Identifiers, Keywords and Indentation Comments and document interlude in Python Command line arguments	02
Session 2	Chapter 2: List, Ranges & Tuples in Python Introduction Lists in Python More About Lists Understanding Iterators Generators , Comprehensions and Lambda Expressions	02
Session 3	Chapter 3: Python Dictionaries and Sets Introduction to the section Python Dictionaries More on Dictionaries Sets Python Sets Examples	02
Session 4	Chapter 4: Input and Output in Python Reading and writing text files writing Text Files Appending to Files and Challenge Writing Binary Files Manually Using Pickle to Write Binary Files	02
Session 5	Chapter 5: Python built in function Python user defined functions Python packages functions Defining and calling Function	02
Session 6	The anonymous Functions Loops and statement in Python Python Modules & Packages	02
Session 7	Chapter 6: Python Object Oriented Overview of OOP Creating Classes and Objects Accessing attributes Built-In Class Attributes Destroying Objects	02
Session 8	Chapter 7: Python Exceptions Handling What is Exception? Handling an exception try….except…else try-finally clause Argument of an Exception Python Standard Exceptions Raising an exceptions User-Defined Exceptions	02
Session 9	Chapter 8: Python Regular Expressions What are regular expressions? The match Function	02
Session 10	The search Function Matching vs searching Search and Replace Extended Regular Expressions Wildcard	02
Session 11	Chapter 9: Python Multithreaded Programming What is multithreading? Starting a New Thread The Threading	02

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Session 12	hapter 10: Using Databases in Python Python MySQL Database Access Install the MySQLdb and other Packages Create Database Connection CREATE, INSERT, READ, UPDATE and DELETE Operation	02
Session 13	Chapter 11: Python For Data Analysis Numpy: Introduction to numpy Creating arrays Using arrays and Scalars Indexing Arrays Array Transposition Universal Array Function Array Processing Arrar Input and Outpu,	02
Session 14	Pandas: What is pandas? Where it is used? Series in pandas Index objects Reindex Drop Entry Selecting Entries Data Alignment Rank and Sort Summary Statics Missing Data Index Heirarchy	02
Session 15	Chapter 12: Django Web Framework in Python Introduction to Django and Full Stack Web Development	02

Course Coordinator
Ms.J.S.Kharat

HOD
Dr.N.M.Ranjan

JSPM Narhe Technical Campus Narhe, Pune-41

Head of Department
Department of Computer Engineering
JSPM Narhe Technical Campus,
R.S.C.O.E. & R. Narhe, Pune-411041.

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Yoga for Mind and Body

Objective of the Course:

This is an introductory course on Yoga and is specially meant for Engineering Students. The main motive of this Yoga Workshop is to increase awareness regarding Yoga Practice among students .Yoga Practice will help students to remove their stress, boosting their confidence and building strong mindset of students.

Learning Outcomes:

At the end of the course the participant will be able to understand awareness regarding giving life-long learning to the students. Yoga Practice will be helping students to remove their stress, boosting their confidence achieving the Program Outcome of communication.

Team leading qualities of the students will improve.

Duration of the Course (in hours): 30 hrs (17th May 2021 to 23rd May 2021)

Eligible Students: Mechanical Engineering,

Expert: Mr. Kaushal Patidar QCI Certified Yoga Trainer

Sr. No	Topic	Minimum No. of Hours
1	Introduction to yoga	01 hrs
2	Introduction to meditation for college students	02 hrs
3	Foundations of yoga for shoulder health Foundations of yoga for knee health	02 hrs
4	Foundations of yoga for spine health	02 hrs
5	Introduction to Ayurveda and Yoga	03 hrs
6	Introduction to chanting and its effects	03 hrs
7	Introduction to pranayam	03 hrs
8	Introduction to sun salutations	03 hrs
9	Asana For yoga alignment	04 hrs
10	Introduction to yoga for stress relief	03 hrs
11	Yoga For Daily Practice	04 hrs
	Total hours	**30 hrs**

JSPM NTC NARHE MECH ENGG. DEPT.

"A Certificate Course on Finite Element Analysis using ANSYS Workbech"

Objective of the Course:

This course is structured and designed to bridge the gap between theoretical finite element knowledge and its industrial applications by providing plenty of insights into the relationship between physical data (e.g., loads, boundary conditions, material behavior, etc.) and finite element models. The course is intended to provide graduate students, engineers, and researchers working in different specializations of mechanical engineering such as design, thermal, biomedical engineering, automobile engineering, etc. The main objective is to introduce Finite Element Analysis (FEA) technique to solve various real life problems of mechanical engineering by using ANSYS Workbench software package.

Learning Outcomes:

At the end of the course the participant will be able to use the ANSYS package to solve mechanical engineering analysis problems using FEA techniques. The participants should have some basic concept of finite element method, engineering mechanics, and familiarity with desktop environment.

Duration of the Course (in hours): 30 hrs

Eligible Students: Mechanical Engineering

Expert: Dr. M. A. Kumbhalkar, H.O.D, Mech. Engg. Dept. Second Shift

Program Code – 675561220

Course Code - 2020ME01

Outline of Course

S. No	Topic	Minimum No. of Hours
1	Introduction to FEA	01 hrs
2	ANSYS and its interfaces, Information of Modeling, Meshing and Element type	02 hrs
3	Projects based on Static structural analysis	04 hrs
4	Projects based on Static structural analysis	04 hrs
5	Projects based on Static structural analysis	02 hrs
6	Projects based on Thermal analysis	04 hrs
7	Projects based on Modal Analysis	02 hrs
8	Projects based on Harmonic Analysis	02 hrs
9	Projects based on Transient Analysis	04 hrs
10	Projects based on Fatigue Analysis	03 hrs
11	Tutorial / Project Work	02 hrs
	Total hours	**30 hrs**

Syllabus

A Certificate Course on Finite Element Analysis using ANSYS Workbech

Course Curriculum (30 Hrs.)

Chapter 1: Introduction to FEA and ANSYS Workbench

a) Introduction to the Finite Element Method
b) General Steps of the Finite Element Method
c) Explanation of 1D, 2D and 3D Elements with examples of ANSYS Elements
d) Need of FEM
e) Types of analysis that can be done using ANSYS
f) Advantages of the Finite Element Method
g) Limitations of FEA
h) ANSYS Workbench Overview
i) Mechanical Overview
j) The Workbench Environment
k) The Toolbox
l) The Project Schematic
m) Workbench File Management
n) Working with Units

Chapter 2: Mechanical Basics

a) Basic Analysis Procedure
b) The Mechanical Interface
c) Outline Tree and Details
d) The Mechanical Application Wizard
e) Scoping Loads and Supports
f) The Engineering Data Application

Chapter 3: Static Structural Analysis

a) Basics of Static Structural Analysis
b) Geometry
c) Material Properties
d) Analysis Settings
e) Nodal Loads and Supports
f) Solving Models
g) Results and Postprocessing
h) Fatigue Analysis

Chapter 4: Modal, Harmonic, Transient Analysis

a) Basics of Free Vibration
b) Geometry
c) Solution Setup
d) Static Extension to Modal Analysis
e) Vibration with Prestress
f) Static Extension to Harmonic Analysis
g) Frequency response information
h) Static Extension to Transient Analysis
i) Time history information
j) Graphical representation of results

Chapter 5: Thermal Analysis
a. Basics Steady State Heat Transfer
b. Geometry
c. Material Properties
d. Thermal Contact
e. Thermal Boundary Conditions
f. Solution Options
g. Results and Postprocessing

Chapter 6: Results and Post processing
a. Viewing Results
b. Scoping Results
c. Exporting Results
d. Coordinates Systems
e. Solutions Combinations
f. Stress Singularities
g. Error Estimation
h. Convergence
i. Workshops

Mode of Evaluation: Quiz/Assignment/ Seminar/Written Examination

Course Name - "A Certificate Course on Finite Element Analysis using ANSYS Workbech"

PO Addressed: PO1, PO3, PO6, PO11, PO12

PO1.	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO3.	**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO6.	**The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO11.	**Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12.	**Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

CO Addressed are-

CAD/CAM and Automation Subject – CO3

CO3. Find stresses and displacements of 1D and 2D problems by using FEA.

Project Stage-I & II – CO1

CO1 Implement suitable methodology to solve the Problems pertaining to the mechanical engineering by utilizing the knowledge gained during the curriculum.

Purpose- To apply modern analysis tool for the analysis of mechanical components in various domain like design strength analysis, thermal analysis, analysis for composite material, etc.

Course Outcome:

Students should be able,

CO1.to apply knowledge for analysis of mechanical components using FEA Package.

CO1.to do static and dynamic structural, thermal, thermo-mechanical, fluid, fatigue analysis ofcomplex three dimension model.

CO3. to demonstrate the ability to evaluate and interpret FE analysis results for design and evaluationpurposes.

Establish the correlation between the Courses and the Program Outcomes (POs)

CO	PO1	PO3	PO6	PO11	PO12
CO1	3	3	2	1	2
CO2	3	2	2	1	3
CO3	3	2	3	3	1

Justification for mapping CO to corresponding PO

Course Outcome (CO)	Mapped PO	Justification
CO1	PO1, PO3, PO6, PO11,PO12	Apply engineering knowledge by solving problem (PO1, PO3) Understanding of design concept for analysis using finite element package. (PO6, PO11, PO12)
CO2	PO1, PO3, PO6, PO11,PO12	Apply engineering knowledge to analyzemechanical model. (PO1, PO3) Practical significance by analyzing in various way like static structural, fatigue etc. (PO6, PO11, PO12).
CO3	PO1, PO3, PO6, PO11,PO12	Apply engineering knowledge by solving problem (PO1, PO3) Interpretation of results for stresses and displacements of 1D, 2D and 3D problems. (PO6, PO11, PO12)

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Department of Mechanical Engineering

A.Y. 2020-21

A Certificate Course on Finite Element Analysis using ANSYS Workbech

Program Outcomes for on course on "A Certificate Course on Finite Element Analysis using ANSYS Workbench

There were several lessons to be learned from this course some of which are briefly described below with regards to the use of FE technique in project. Some of the more general learning outcomes relative to solved project were:

Mesh density:

- The number of elements/nodes affect whether the solution has converged
- The engineer needs to determine what the convergence criteria will be and what tolerance is acceptable
- No effort was made to create mapped meshes or reduce the element count while retaining mesh convergence
- Mesh density is critical to obtaining a reasonable FEA simulation result

Element type

- Limitations from using assumptions such as plane-stress need to be considered since they may affect the results particularly if there are other stress components due to other loads
- Effect of higher order, lower order elements, or other elements options such as reduced integration must be understood by the engineer.
- The choice of element type (HO, LO, visco-elastic, etc.) and options (plane-stress/strain, reduced integration, etc.) are also critical to obtaining a reasonable FEA simulation result
- Although higher order elements can be better suited to curved surfaces with its mid-side node, lower order elements are often suggested for plasticity which was not an aspect for this project.

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Course Name: **Data Analytics with Python**.

Instructor: 1. Mrs. N. R. Kadam

2. Mrs. V. S. Patil

3. Mrs. K. P. Wagh

Session	Date	Topic	Duration (in Hrs)
Session 1	2-11-2020	Introduction to data analytics.	2
Session 2	3-11-2020	Installing Python/Jupyter/IPython on Windows	2
Session 3	4-11-2020	Python fundamentals	2
Session 4	4-11-2020	Python fundamentals	2
Session 5	5-11-2020	Matplotlib, Pandas, Seaborn: Sactterplot, Barchart, Linechart, Histogram	2
Session 6	6-11-2020	Other Graphs: Boxplot, Heatmap, Faceting, Pairplot.	2
Session 7	7-11-2020	Pre-processing Data in Python and Dealing with Missing Values in Python	2
Session 8	7-11-2020	Data Formatting in Python and Data Normalization in Python	2
Session 9	8-11-2020	Using the Pandas library to manipulate data (filtering and sorting data, combining files, GroupBy, etc.)	2
Session 10	9-11-2020	Using the Pandas library to manipulate data (filtering and sorting data, combining files, GroupBy, etc.)	2
Session 11	10-11-2020	Statistical Data Analysis	2
Session 12	11-11-2020	Exploratory Data Analysis	2
Session 13	12-11-2020	Basic concepts of AI & ML	2
Session 14	13-11-2020	Introduction to various classification algorithms	2
Session 15	13-11-2020	Introduction to Model Development	2

NRK

Mrs. N.R.Kadam

Program Coordinator

JSPM Narhe Technical Campus Pune E&TC Dept.

Dr. M. M. Sardeshmukh

HOD

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Name of the Course: Data Analytics using Python

Course Code: 21ETCDAP

Program Outcome

Student will able to attain following knowledge and skill

1. Implement statistical analysis techniques for solving practical problems.
2. Perform statistical analysis on variety of data.
3. Practically realize the working experiments of Python using Hadoop.
4. Perform appropriate statistical tests using R and visualize the outcome.
5. Understands the applications using Map Reduce Concepts.
6. Develop Big Data Solutions using Hadoop Eco System.
7. Manage Job Execution in Hadoop Environment.

Mrs. N.R.Kadam
Program Coordinator

Dr. M.M.Sardeshmukh
HOD

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Course Name : **How do we keep adding learning and experiences from day 1 of MBA**

Course Code: **21MBALE**

Speaker: **Mr. Rahul Bohra**

CONTENTS

Course co-ordinator

Dr. R. K. Singh.
Dean MBA

Dean
MBA Department
JSPM Narhe Technical Campus

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Course Name : **How do we keep adding learning and experiences from day 1 of MBA**

Course Code: **21MBALE**

Speaker: **Mr. Rahul Bohra**

Program outcome

1.Foster a culture of continuous learning where students are encouraged to seek out new knowledge and skills both inside and outside the classroom.

2. Design curriculum and learning experiences that bridge theory with real-world application, allowing students to immediately apply what they learn in practical settings.

3. Provide a variety of experiential learning opportunities such as case studies, simulations, internships, consulting projects, and field visits that expose students to diverse business environments and challenges.

4. Offer flexibility for students to pursue personalized learning paths based on their interests, career goals, and learning styles, allowing them to delve deeper into areas of specialization from the outset.

Course co-ordinator

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Course Name : Parallel Computing

Course Code : 20MCAPC

Instructor : Prof. S. R. Lende

Prof. S.M. Deshmukh

Program Outcome:

After attending the program students will be able to

1. Understand implicit and explicit parallel platform
2. Decompose given problem into many sub problems using different decomposition techniques.
3. Use different performance metrics for analysis of parallel algorithms.
4. Use message passing library for communication among process running on parallel platform.
5. Develop parallel algorithms for shared address space platform using multithreading.
6. Develop parallel algorithms for tightly coupled and loosely coupled parallel systems for various applications.

CONTENTS

Sr.No	Topic	Duration (Hrs)
1	• Principles of parallel algorithm design •decomposition techniques •mapping & scheduling computation •templates •Programming shared-address space systems •Cilk Plus •OpenMP •Pthreads	6
2	• Parallel computer architectures •shared memory systems and cache coherence •distributed-memory systems •interconnection networks and routing •Programming scalable systems •message passing: MPI •global address space languages	12

	•Analytical modeling of program performance •speedup, efficiency, scalability •cost optimality •is efficiency	
3	• Collective communication •Synchronization •Non-numerical algorithms •sorting •graphs •Numerical algorithms •dense matrix algorithms •sparse matrix algorithms •Performance measurement and analysis of parallel programs •GPU Programming •Problem solving on clusters using MapReduce •Warehouse-scale computing • Practice Session for Geometry Creation	12

Prof. S. R. Lende

Program Coordinator

Prof. Dr. S. S. Solanki

Dean MCA

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2019-2020

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Course Name : MATLAB Simulink for System Modeling
Course Code : 20COMPMT
Instructor : Mr.A.R.Uttarkar
Programme Outcome :Students will able to simulink is the platform for Model-Based Design that supports system-level design, simulation, automatic code generation, and continuous test and verification of embedded systems. Key capabilities include: A graphical editor for modeling all components of a system. The ability to model a nonlinear system, which a transfer function is unable to do

CONTENTS

Session	Topic	Duration (Hrs)
Session 1	Introductory Sessions Of MATLAB Training Course Why MATLAB What Are Toolboxes MATLAB Interface Introduction To Arrays And Matrices MATLAB File Types Basics Of MATLAB Programming	02
Session 2	Handling Data And Data Flow In MATLAB Data Types Creating Variables Scalars, Vectors And Matrix Operations & Operators Importing & Exporting Of Data File Input-Output	02
Session 3	File Editing And Debugging In MATLAB Writing Script Files Writing Function Files Inserting Breakpoints And Debugging Error Correction	02
Session 4	MATLAB Graphics I Simple Graphics & Types Plotting Functions Creating And Editing Plots (2D & 3D) Handling Graphics	02
Session 5	MATLAB Graphics II Introduction To Graphical User Interfaces (GUI) GUI Tools Creating Functioning GUIs	02
Session 6	MATLAB Programming II Probability & Statistics Cells & Structures Performance Measures Introduction To Symbolic Math Symbolic Operations	02
Session 7	Introduction To MATLAB Toolboxes	02

	Signal Processing Toolbox In MATLAB Image Acquisition Toolbox In MATLAB Image Processing Toolbox In MATLAB	
Session 8	Data Acquisition & Signal Processing Toolbox Of MATLAB Basics Of Signal Processing Representing & Analyzing Signals	02
Session 9	Analog Input Acquisition Transforms Computation Analog & Digital Filter Designing	02
Session 10	Image Acquisition & Image Processing Toolbox Introduction To Image Processing Images In MATLAB Spatial Referencing Image Enhancement Morphological Processing Using Image Tool	02
Session 11	Image Data Acquisition Reading And Writing Images Converting Between Image Types And Classes Simple Image Arithmetic Image Transformations	02
Session 12	Spatial Referencing Image Enhancement Morphological Processing Using Image Tool	02
Session 13	Introduction To SIMULINK What Is SIMULINK Importance Mathematical Modeling Converting Mathematical Model Into SIMULINK Model ,	02
Session 14	SIMULINK Interface Libraries & Tools Sources & Sinks Building Systems	02
Session 15	Creating Systems & Subsystems Solver Configuration	02

Course Coordinator
Mr.A.R.Uttarkar

Head
HOD
Department of Computer Engineering
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Dr.N.M.Ranjan

JSPM Narhe Technical Campus

Department of Mechanical Engineering

"Course on Pre-processing using Hypermesh"

Course Overview:

This comprehensive course is designed to equip mechanical engineering professionals with the essential skills needed to proficiently use Hypermesh for finite element analysis (FEA) pre-processing tasks. Participants will learn fundamental concepts and practical techniques required to efficiently create and prepare 3D models for simulation and analysis.

Course Objectives:

Understand the role of pre-processing in the finite element analysis (FEA) workflow.

Learn to navigate the Hypermesh interface and utilize its key functionalities.

Develop proficiency in model cleanup, mesh generation, and assembly creation.

Acquire skills in setting up boundary conditions and material properties for FEA.

Gain hands-on experience in preparing models for various engineering analyses.

Course Outcome:

By the end of this course, participants will be able to:

- Independently navigate and utilize Hypermesh for pre-processing tasks.
- Efficiently prepare 3D models for finite element analysis.
- Apply meshing techniques to generate high-quality meshes.
- Setup boundary conditions and material properties necessary for accurate simulations.
- Identify and resolve pre-processing issues to ensure robust analysis outcomes.

Duration of the Course (in hours): 30 hrs

Eligible Students: Mechanical Engineering,

Expert: Prof. A.S. Patil, Assistant Professor, Mech. Engg. Dept.

Course-PO Mapping (Course to Program Outcome Mapping):

This course aligns with the following Program Outcomes (PO) of the Mechanical Engineering Department at JSPM NTC Narhe:

PO1: Apply mathematical, scientific, and engineering principles to solve complex problems.

PO2: Identify, formulate, and analyze engineering problems to derive feasible solutions.
PO3: Design and conduct experiments, analyze data, and interpret results.
PO4: Utilize modern engineering tools and software effectively in engineering practice.

"Course on Pre-processing using Hypermesh"

Course Content:

1. **Introduction to Finite Element Analysis (FEA) and Pre-processing**
   - Overview of FEA process and importance of pre-processing
   - Introduction to Hypermesh and its capabilities
2. **Hypermesh Basics**
   - Hypermesh interface overview
   - Customization and workspace management
3. **Geometry Import and Cleanup**
   - Importing CAD geometries into Hypermesh
   - Geometry cleanup techniques: defeaturing, simplification, and repair
4. **Mesh Generation**
   - Understanding different mesh types (tetrahedral, hexahedral, etc.)
   - Mesh controls and quality assessment
5. **Mesh Editing and Optimization**
   - Node and element editing for improved mesh quality
   - Techniques for mesh optimization and refinement
6. **Assembly Creation and Connections**
   - Building assemblies in Hypermesh
   - Defining part connections, joints, and contacts
7. **Material Assignment and Properties**
   - Assigning materials to components
   - Defining material properties (elasticity, thermal, etc.)
8. **Boundary Conditions and Loads**
   - Applying boundary conditions (constraints and supports)
   - Defining loads (forces, pressures, temperatures, etc.)
9. **Model Check and Verification**
   - Performing model checks and diagnostics
   - Resolving common issues and errors
10. **Exporting Models for Analysis**
    - Exporting pre-processed models for analysis in FEA software

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Department of Mechanical Engineering

A.Y. 2019-2020

Program outcomes on Pre-processing using Hypermesh

Altair HyperMesh is a computer-aided design (CAD) program that helps users create meshes for complex models, and the meshed models needed for finite element (FEM) analysis. It can be used to prepare large models, from importing CAD geometry to exporting an analysis run

HyperMesh helps users develop complex and connected products efficiently by leveraging domain knowledge and increasing team productivity. It has a number of panels that can be used to create a mesh based on geometry rather than surfaces. Some companies that use HyperMesh include Lockheed Martin, BorgWarner Inc., Mercedes Benz, and Boeing

HyperMesh's features:

- Skeleton modelling: Simplifies the modelling process and reduces model complexity
- Post-processing and data analysis: Uncovers insights from FEM simulations
- Intuitive user interface: Includes in-app support, workflow guidance, mouse controls, and keyboard shortcuts
- Open and programmable architecture: Integrates with third-party software and supports Python scripting

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Course Name:**Robotics using Arduino.**

Instructor: 1. H. N. Patil

2. N. R. Kadam

Session	Date	Topic	Duration (in Hrs)
Session 1	6-01-2020	Introduction to Robots and Robotics	2
Session 2	6-01-2020	Introduction to Arduino	2
Session 3	6-01-2020	Learning About Sensors	2
Session 4	7-01-2020	Making Two Sensors Work Together in Arduino	2
Session 5	7-01-2020	Robot Kinematics	2
Session 6	7-01-2020	Robot Kinematics	2
Session 7	8-01-2020	Trajectory Planning	2
Session 8	8-01-2020	Singularity Checking	2
Session 9	8-01-2020	Robot Dynamics	2
Session 10	9-01-2020	Robot Dynamics	2
Session 11	9-01-2020	Sensors	2
Session 12	9-01-2020	Sensors	2
Session 13	10-01-2020	Robot Vision	2
Session 14	10-01-2020	Robot Motion Planning	2
Session 15	10-01-2020	Intelligent Robot	2

Prof. H. N. Patil

Program Coordinator

Dr. M. M. Sardeshmukh

H.O.D.

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Name of the Course: Robotics using Arduino

Course Code: 20ETCRA

Program Outcome

Student will able to attain following knowledge and skill

1. Understand the value and importance of learning a coding language.
2. Transform a physical input into a digital input and analyze it.
3. Work to complete a customizable full Arduino project autonomously, from the beginning to the end.
4. Understand the function of electronic sensors and components.
5. Learn tobuild your own led circuit.
6. Plan and design innovative and fun tools for education.

Prof. H. N. Patil

Program Coordinator

Dr. M. M. Sardeshmukh

H.O.D.

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Course Name : Soft Skill and Personality Development

Course Code : SSPD19

Trainer : Mr. Sumit Tamuthkar

CONTENTS

Course co-ordinator

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Course Name : **Soft Skill and Personality Development**

Course Code : **SSPD19**

Trainer : **Mr. Sumit Tamuthkar**

Program Outcome

1. Program participants should be able to express ideas clearly, listen actively, and adapt their communication style to different situations and audiences.
2. Participants should demonstrate the ability to work effectively in teams, understanding group dynamics, resolving conflicts constructively, and contributing positively to collective goals.
3. Encourage the development of leadership qualities such as decision-making, problem-solving, delegation, and motivation, whether it's leading a project or influencing others.
4. Equip participants with skills to prioritize tasks, manage their time efficiently, and maintain productivity, fostering a sense of accountability and responsibility.

Course co-ordinator

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DIRECTOR

Course Name : Application of MATLAB in Civil Engineering

Course Code : 20MATLAB

Instructor : Prof . V.P. Padmawar, Asst.Professor,Civil Engg Dept.

Duration of course : 30 Hr's

CONTENTS

Sr No	Topics	Duration
1	• Introduction of MATLAB & Apllication	3 Hr's
2	• Determine resultant force & moment of plane or space force	3 Hr's
3	• Calculation of Reaction & Bending Moment of beam & frame	3 Hr's
4	• Plotting shear force and bending momentdiagram using force equilibrium	3 Hr's
5	• Calculation cross section area properties for sections	3 Hr's
6	• Practice Session	3 Hr's
7	• Analysis of beam & frame using flexibility method having more than three unknown	3 Hr's
8	• Analysis of beam & frame using stiffness method having more than three unknown	3 Hr's
9	• Introduction of interpretation using mathematical operations	3 Hr's
10	• Doubt clearing & Practice Session	3 Hr's

Prof. V.P. Padmawar

Program Coordinator

Dr. S. A Choudhari
Head
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B.E.(Civil),M.E.(Env.Engg.) Ph.D.(Engg.)
DIRECTOR

Course Name : Application of MATLAB in Civil Engineering

Course Code : 20MATLAB

Duration of course : 30 Hrs

Program Outcome

Students will able to attain following knowledge and skill

1. Students gain experience with complex computations and simulations, improving their ability to solve engineering problems. MATLAB's versatile functions enable them to tackle complex mathematical operations and understand their results.
2. MATLAB is used to simulate structural behavior and analyze stress, strain, and load distributions. Students learn how to use MATLAB to model structures, perform finite element analysis, and assess safety and stability. This knowledge is essential for designing safe and efficient structures
3. MATLAB can integrate with other engineering software, such as AutoCAD, SolidWorks, and GIS tools. This interoperability provides a broader context for civil engineering students, enabling them to work with different types of software commonly used in industry.
4. This hands-on approach allows students to apply theoretical knowledge to practical scenarios, preparing them for real engineering challenges.

Padmawar

Prof. V.P. Padmawar

Program Coordinator

J.S.P.M. Narhe Technical Campus Pune

Dr. S. A Choudhari

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DIRECTOR

Course Title: - Red Hat Linux

Course Code: MCARH

Instructor: Mr.Vilas Gaikwad

CONTENTS

Module	Topic	Learning Objectives	Duration
Getting started with Red Hat Linux	Linux, introduction to Command line	What is Linux, Accessing the Command Line, Accessing the Command Line Using the Desktop, Executing Commands Using the Bash Shell	8
Physical Storage	Managing Files	Managing Files from command line, Creating viewing and editing text file, controlling access to the file , Accessing Linux file system	10
Linux Processor	Monitoring and managing Linux Processor	Controlling services and daemons, Configuring and Securing SSH, Analyzing and Storing Logs,	12
		Total	30

Prof.A.M.Tekale

Program Coordinator

Dr. S. S. Solanki

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Dept. of MCA
JSPM Narhe Technical Campus,
Narhe, Pune - 41

Program Outcome:

1. The Red Hat Linux Program delivers industry-leading developer tools, instructional resources, and an ecosystem of experts to help Linux programmers maximize productivity in building great Linux applications.

2. Red Hat Program delivers a comprehensive suite of runtime languages and open source databases on a separate life cycle with a more frequent release cadence. Hence you can take advantage of new innovations as you build and deploy modern web apps.

3. Learn new concepts from industry experts

4. Gain a foundational understanding of a subject or tool.

5. Develop job-relevant skills with hands-on projects.

Prof. A. M. Tekale
Program Coordinator

Dr. S. S. Solanki
Dean(MCA)

Dean
Dept. of MCA
JSPM Narhe Technical Campus,
Narhe, Pune - 41

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

JSPM'S Narhe Technical Campus, Narhe, Pune-41

2018-2019

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Founder - Secretary

Prof.(Dr.) R.K.Lad
B.E.(Civil),M.E.(Env.Engg.) Ph.D.(Engg.)
DIRECTOR

Course Title: - Basics of Communication and Employability Skills Development

Course Code: 19BCESD

Instructor: Prof. Jayant Kulkarni

Prof. Neelam V. Chaple

CONTENTS

Module	Topic	Learning Objectives	Duration
Employability Skills	S-T-A-R Techniques	Enhancement of the employability of the students through development of their skills	6
Interpersonal Skill	3P'S of Interview	Improve interpersonal skills and presentation skill of students	8
Assertiveness	Guess the emotion game	Personality Development of the students	5
Critical Thinking	Origami	Preparation of Group Discussion , Personal Interview, how to write/form your CV	4
Time Management	Types and rules of GD	Improve interpersonal skills and presentation skill of students	5
How to prepare your CV	Group Activity	Preparation of Group Discussion , Personal Interview, how to write/form your CV	2
		Total	30

Prof. Neelam V. Chaple

Program Coordinator

Dr. S. A. Choudhari

HOD

Head
Dept. of Civil Engg.
JSPM Narhe Technical Campus,
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B.E.(Civil),M.E.(Env.Engg.) Ph.D.(Engg.)
DIRECTOR

Course Title: - Basics of Communication and Employability Skills Development

Course Code: 19BCESD

Program Outcome

Students will able to attain following knowledge and skill:

1. Improved ability to articulate ideas clearly, confidently, and effectively in both informal and formal settings
2. Enhanced skills in writing reports, emails, and other business-related documents with clarity and coherence
3. Development of a strong work ethic, including responsibility, dependability, and punctuality.
4. Enhanced ability to make informed decisions using critical thinking and analytical skills.
5. Enhanced ability to create and deliver compelling presentations, including use of visual aids and audience engagement techniques.
6. Understanding career paths, goal setting, and how to develop a personal career strategy.

Prof. Neelam V. Chaple
Program Coordinator

Dr. S. A. Choudhari
HOD

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DIRECTOR

Name of Course : Interdisciplinary Course on 2D and 3D Solid Modeling using AutoCAD

Course Code : 18CAD01

Objective of the Course :

Students will learn the recommended workflows and basic skills required to navigate AutoCAD. Using hands-on exercises representing real-world, industry-specific design scenarios, students explore the fundamental concepts and workflows for creating 3D models using AutoCAD. Students learn how to create and modify both solid and surface models. This courseware also teaches students how to present their designs while they are still being created, using visualization tools such as visual styles, model walk and flythrough, materials, and lighting. Students also learn how to output 3D models from AutoCAD to either paper or a distributable, electronic version.

Duration of the Course (in hours): 30 hrs

Expert: Prof. Bharat Aher, Assistant Professor, Mech. Engg. Dept.

Prof. S.S. Deshpande, Assistant Professor, Civil Engg. Dept.

Curriculum

S. No	Topic	Minimum No. of Hours
1.	AutoCAD Basics	01 hrs
2.	Working with Drawing Aids	01 hrs
3.	Editing Sketched Objects	02 hrs
4.	Text and Applications	02 hrs
5.	Working with Dimensions	02 hrs
6.	Blocks and Applications	02 hrs

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7.	Working with Hatching	02 hrs
8.	Advanced CAD for 2D	02 hrs
9.	Plotting and Applications	02 hrs
10.	Isometric Practices	02 hrs
11.	Working with 3D Objects	02 hrs
12.	Modifying and Editing 3D Objects	02 hrs
13.	Solid, Mesh, Surface Modelling	02 hrs
14.	Rendering and Animating Designs	02 hrs
15.	Project (Assignment) Documentation	04 hrs
	Total Hrs	**30 hrs**

Prof. S. S. Deshpande
Program Coordinator

Dr. S. A Choudhari
HOD
Head
Dept. of Civil Engg.
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DIRECTOR

Name of Course : Interdisciplinary Course on 2D and 3D Solid Modeling using AutoCAD

Course Code : 18CAD01

Program Outcome

Students will able to attain following knowledge and skill

1. To foster an ambitious desire to work in design field
2. To update knowledge about AutoCAD to understand design standards
3. To pursue a lifelong career in design field and professional growth for betterment of society
4. Knowledge of corporate compliance requirements and frameworks
5. This program helps students to become more familiar with the advanced design techniques

Prof. S. S. Deshpande

Program Coordinator

Dr. S. A. Choudhari

HOD

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : Artificial Intelligence
Course Code : 19COMPAI
Instructor : Ms.M.S.Namose

Programme Outcome: Students will able to identify problems where artificial intelligence techniques are applicable.Apply selected basic AI techniques; judge applicability of more advanced techniques.Participate in the design of systems that act intelligently and learn from experience. Solve basic AI based problems. Define the concept of Artificial Intelligence. Apply AI techniques to real-world problems to develop intelligent systems.

CONTENTS

Session	Topic	Duration (Hrs)
Session 1	AI problems, foundation of AI and history of AI intelligent agents: Agents and Environments, the concept of rationality,	02
Session 2	The nature of environments, structure of agents, problem solving agents, problem formulation.	02
Session 3	Searching- Searching for solutions, uniformed search strategies – Breadth first search, depth first Search. Search with partial information (Heuristic search)	02
Session 4	Hill climbing, A* ,AO* Algorithms, Problem reduction, Game Playing-Adversial search,	02
Session 5	Games, mini-max algorithm, optimal decisions in multiplayer games, Problem in Game playing, Alpha-Beta pruning, Evaluation functions	02
Session 6	Knowledge representation issues, predicate logic- logic programming, semantic nets- frames and inheritance, constraint propagation, representing knowledge using rules	02
Session 7	Rules based deduction systems. Reasoning under uncertainty, review of probability, Baye's probabilistic interferences and dempstershafer theory.	02
Session 8	First order logic. Inference in first order logic, propositional vs. first order inference, unification & lifts forward chaining,	02
Session 9	Backward chaining, Resolution, Learning from observation Inductive learning ,Decision trees, Explanation based learning, Statistical Learning methods ,Reinforcement Learning	02
Session 10	Expert systems:- Introduction, basic concepts, structure of expert systems, the human element in expert systems how expert systems works, problem areas addressed by expert systems,	02

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Session 11	Expert systems success factors, types of expert systems, expert systems and the internet interacts web, knowledge engineering, scope of knowledge, difficulties, in knowledge acquisition methods of knowledge acquisition	02
Session 12	Machine learning, intelligent agents, selecting an appropriate knowledge acquisition method,	02
Session 13	with frames: model based reasoning, case based reasoning,	02
Session 14	Societal impacts reasoning in artificial intelligence, inference with rules,	02
Session 15	Explanation & meta knowledge inference with uncertainty representing uncertainty	02

Course Coordinator
Ms.M.S.Namose

HOD
Dr.N.M.Ranjan
Head
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Course Name: **Image Processing Using Python**.

Instructor: 1. Mrs. K. P. Wagh

2. Mrs. H. N. Patil

Session	Date	Topic	Duration (in Hrs)
Session 1	7-01-2019	Introduction to Python libraries for image processing, Basic image manipulation and enhancement techniques.	2
Session 2	7-01-2019	Advanced image manipulation and enhancement techniques, Geometric transformations, understanding image color spaces, Applying color manipulation techniques.	2
Session 3	7-01-2019	Understanding image histograms, applying image smoothing and sharpening techniques, understanding and applying basic and advanced image filtering techniques.	2
Session 4	8-01-2019	Image restoration techniques, Edge detection techniques, Feature extraction techniques.	2
Session 5	8-01-2019	Image segmentation, Thresholding techniques, Watershed segmentation.	2
Session 6	8-01-2019	Object detection and recognition, template matching, deep learning for image classification and recognition.	2
Session 7	9-01-2019	Image classification model with Tensor Flow, Advanced deep learning models for medical image processing.	2
Session 8	9-01-2019	Preprocessing, Segmentation and Registration of medical images.	2
Session 9	9-01-2019	Understanding 3D image processing.	2
Session 10	10-01-2019	Image visualization and manipulation, filtering and segmentation.	2
Session 11	10-01-2019	Image compression technique.	2
Session 12	10-01-2019	JPEG and Wavelet-based compression technique.	2
Session 13	11-01-2019	Introduction to image steganography.	2
Session 14	11-01-2019	Hiding data and Extracting hidden data from images using Python.	2
Session 15	11-01-2019	Review of course materials, Final project presentation and wrap-up	2

Mrs. K. P. Wagh
Program Coordinator

Prof. H. N. Patil
H.O.D.

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Name of the Course: Image Processing Using Python.

Course Code: 19ETCIP

Program Outcome

Student will able to attain following knowledge and skill

1. Review the fundamental concepts of a digital image processing system.
2. Analyze images in the frequency domain using various transforms.
3. Evaluate the techniques for image enhancement and image restoration.
4. Categorize various compression techniques.
5. Interpret Image compression standards.
6. Interpret image segmentation and representation techniques.

Mrs. K. P. Wagh
Program Coordinator

Prof. H. N. Patil
H.O.D.
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E & TC Dept

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DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874

Course Name : Communication and soft skill

Course Code : CSS18

Instructor : Mr.Amit Ghadge

CONTENTS

Session	Topic	Duration (Hrs)
Session 1	Introduction	06
Session 2	Effective Communication	06
Session 3	Time Management	06
Session 4	Team Work and Collaboration	06
Session 5	Individual presentations Test	06
	Total	30

Course co-ordinator

Dean MBA

Dean
MBA Department
JSPM Narhe Technical Campus
Narhe - 411 041

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Course Name : Communication and soft skill

Course Code : CSS18

Instructor : Mr.Amit Ghadge

Program Outcome

1. Students should demonstrate the ability to express ideas clearly, confidently, and persuasively through spoken language.
2. Students should exhibit active listening skills, including the ability to understand, interpret, and respond appropriately to verbal and nonverbal cues from others.
3. Students should be able to compose clear, coherent, and well-structured written messages tailored to specific purposes, audiences, and contexts, including emails, reports, proposals, and other professional documents.
4. Students should demonstrate proficiency in interpersonal communication, including the ability to establish and maintain positive relationships, resolve conflicts constructively, and collaborate effectively in diverse team settings.
5. Students should cultivate empathy and emotional intelligence, showing an understanding of others' perspectives, feelings, and needs, and demonstrating the ability to communicate and interact with sensitivity, respect, and empathy.
6. Students should develop effective presentation skills, including the ability to organize and deliver engaging, informative, and persuasive presentations using appropriate visual aids and delivery techniques.
7. Students should engage in giving and receiving constructive feedback, as well as self-reflection, continuously improving their communication skills through self-awareness, self-assessment, and active learning.

Course co-ordinator

Dean MBA

Dean
MBA Department
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Prof.(Dr.) R.K.Lad
B.E.(Civil),M.E.(Env.Engg.) Ph.D.(Engg.)
DIRECTOR

Course Title: - Machine Learning

Course Code: MCAML

Instructor: Miss. Snehal Shinde

CONTENTS

Module	Topic	Learning Objectives	Duration
Introduction	Machine Learning with Python	Python basics, Methods for Machine Learning, Understanding Data with statistics and virtualization for Machine Learning	8
Algorithms	Machine Learning Algorithms	Logistic Regression, Support Vector Machine, decision tree, Random forest, Clustering	14
Lab Session	Hands on Sessions	Lab Session	8
		Total	30

Prof. S.M.Deshmukh

Program Coordinator

Dr. S. S. Solanki

Dean MCA

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Program Outcome:

1. Be able to demonstrate an understanding of advanced knowledge of the practice of machine learning, from vision to formulation, analysis, design, validation and deployment.
2. Be able to tackle complex machine learning problems using contemporary principles, algorithms, technologies, methodologies, and tools.
3. Be able to lead and participate in a team to develop AI and machine learning applications
4. Be able to advance successfully in their profession, and sustain a process of life-long learning in engineering or other professional areas.
5. Be able to communicate effectively and persuasively with a variety of audiences.

Prof. S. M. Deshmukh
Program Coordinator

Dr. S. S. Solanki
Dean MCA

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Course Name: Interdisciplinary Course on Practical Finite Element Analysis using ANSYS & MATLAB

PO Addressed: PO1, PO3, PO6, PO11, PO12

PO1.	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO3.	**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO6.	**The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO11.	**Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12.	**Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

CO Addressed for CAD/CAM and Automation Subject – CO3

CO3. Find stresses and displacements of 1D and 2D problems by using FEA.

Purpose- To bridge the gap of theoretical concepts of 1D and 2D problems and practical solutions by the analysis of 2D and 3D components used in the applications of mechanical and civil engineering using modern FEA software.

Course Outcome:

Students should be able,

CO1. to apply knowledge for analysis of mechanical components using FEA Package.

CO1. to do static and dynamic structural, thermal, thermo-mechanical, fluid, fatigue analysis of complex three dimension model.

CO3. to demonstrate the ability to evaluate and interpret FEA analysis results for design and evaluation purposes.

Establish the correlation between the Courses and the Program Outcomes (POs)

CO	PO1	PO3	PO6	PO11	PO12
CO1	3	3	2	1	2
CO2	3	2	2	1	3
CO3	3	2	3	3	1

Justification for mapping CO to corresponding PO

Course Outcome (CO)	Mapped PO	Justification
CO1	PO1, PO3, PO6, PO11,PO12	Apply engineering knowledge by solving problem (PO1, PO3) Understanding of design concept for analysis using finite element package (PO6, PO11, PO12)
CO2	PO1, PO3, PO6, PO11,PO12	Apply engineering knowledge to analyze mechanical model. (PO1, PO3) Practical significance by analyzing in various way like static structural, fatigue etc. (PO6, PO11, PO12).
CO3	PO1, PO3, PO6, PO11,PO12	Apply engineering knowledge by solving problem (PO1, PO3) Interpretation of results for stresses and displacements of 1D, 2D and 3D problems. (PO6, PO11, PO12)

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Department of Mechanical Engineering

A.Y. 2018-2019

Interdisciplinary course on "Practical Finite Element Analysis using ANSYS & MATLAB

Material Selection

- Structural steel is the default material in ANSYS workbench which has to modify or change as per the requirement in analysis.
- The material properties can be added for different material or can be selected and edit from available library.
- S-N curve has to be plot for fatigue analysis as per analytical and experimental values of dynamic model.

Boundary Conditions

- Boundary conditions can affect the results.
- Since this project iteratively solved to balance the axial force, the single fixed node was not a deterrent in application for this specific problem which may normally cause local issues on other problems
- The engineer must determine the locations of interest and accurately model them so the model is not polluted

Static Structural Analysis

- The method of loading must be considered particularly if local stresses are of interest
- Understand the concept of connection i.e. contact and target element to join components in assembly of product. Selection of connection affects very much on the result in static structural analysis.
- High stresses regions must be modeled in a more representative fashion if an area of interest
- An elastic foundation with contact elements may account for load redistribution and alter the results locally or globally
- Understand the potential load variations and the effect on the final margin of safety, interpretation of results and in post-processing.