



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

**Knowledge  
Enhancement and  
Updating**

<b>Sr. No.</b>	<b>Name of Activity</b>	<b>Purpose</b>
1	Swayam Courses	NPTEL is a curriculum building exercise and is directed towards providing learning materials in Science and Engineering. The main goal was to create web and video courses in all major branches of engineering and physical sciences at the undergraduate and postgraduate levels and management courses at the postgraduate level.
2	FDP	The scheme is designed to enhance the teaching and other skills of the faculty. And to make them aware about modern teaching tools and methodologies. It provides an opportunity to acquire knowledge about current technological developments in relevant fields. It will not only promote the professional practices relevant to technical education but also motivates the faculty to achieve competitive teaching and learning environment, thus channelizing development with respect to academic qualifications and personal matters. The Faculty Development Programme (FDP) intends to provide financial assistance to facilitate up-gradation of knowledge, skill and intends to provide opportunities for induction training to teachers employed in disciplines Engineering & Technology
3	STTP	Short Term Training Program (STTP) intends to conduct faculty trainings through financial assistance from AICTE to enable faculty members in the field of technical education to introspect and learn techniques that can help prepare students for active and successful participants in a knowledge society. Short-term courses can give one a competitive edge and also help develop oneself personally.



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

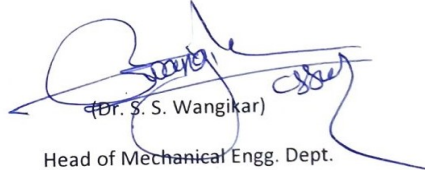
**Swayam Course  
NPTEL**

**SVERI's College of Engineering Pandharpur**  
**Mechanical Engineering Department**  
**Jan-Apr 2022 Staff NPTEL Exam Results**

Sr. No.	Name of Student	Subject Name	Week	Score
1	Prof. Avinash Kailas Parkhe	Principles of Industrial Engineering	12	52% Successfully Completed
2	Prof. Bhaskar Dhondi Gaikwad	Manufacturing Guidelines for Product Design	8	77% Elite + silver
3	Prof. Sachin Mahadev Khomane	Manufacturing Guidelines for Product Design	8	83% Elite + Silver
4	Prof. Chetan Chandrakant Jadhav	Computer Integrated Manufacturing	12	81% Elite + Silver
5	Dr. Sachin Ashok Sonawane	Fundamentals of surface Engineering	12	68% Elite

  
(Mr. C. C. Jadhav)

NPTEL Coordinator

  
Dr. S. S. Wangikar

Head of Mechanical Engg. Dept.



## NPTEL Certificates

Roll No: NPTEL22ME03S34240335

To DR SACHIN ASHOK SONAWANE  
PLOT NO. 98, HARINAYAN PARK,  
ISBAVI, PANDHARPUR, DIST: SOLAPUR  
PANDHARPUR  
MAHARASHTRA - 413304  
PH. NO :9850959863



Duration of NPTEL course: 12 Weeks

No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP



## NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DR SACHIN ASHOK SONAWANE**

for successfully completing the course

**Fundamentals of Surface Engineering: Mechanisms,**

**Processes and Characterizations**

with a consolidated score of **68 %**

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras

(Jan-Apr 2022)

Prof. Dileep N. Malkhede  
Advisor-I (Research, Institute & Faculty Development)  
All India Council for Technical Education

Roll No: NPTEL22ME03S34240335

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22ME56S34240283

To  
SACHIN MAHADEV KHOMANE  
A/P SHRIKRUSHNANAGAR,  
GOPALPUR  
PANDHARPUR  
MAHARASHTRA - 413304  
PH. NO :9049349429



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SACHIN MAHADEV KHOMANE**

for successfully completing the course



## Manufacturing Guidelines for Product Design

with a consolidated score of **83** %

Online Assignments	20.42/25	Proctored Exam	63/75
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Total number of candidates certified in this course: 371

**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Feb-Apr 2022  
(8 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No:NPTEL22ME56S34240283

To validate and check scores: <https://npTEL.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22ME04S44240417

To  
AVINASH KAILAS PARKHE  
FLAT NO. 103, TIRUPATI VILAS APARTMENT,  
SANGOLA ROAD, PANDHARPUR  
PANDHARPUR  
MAHARASHTRA - 413304  
PH. NO :9503632622



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**AVINASH KAILAS PARKHE**

for successfully completing the course

## Principles of Industrial Engineering

with a consolidated score of **52** %

Online Assignments	17.19/25	Proctored Exam	35.21/75
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Total number of candidates certified in this course: 275

**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jan-Apr 2022  
(12 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL22ME04S44240417

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22ME10S24240409

To  
CHETAN CHANDRAKANT JADHAV  
A/P: MALOLI  
MALSHIRAS  
MAHARASHTRA - 413113  
PH. NO :8308689570



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**CHETAN CHANDRAKANT JADHAV**

for successfully completing the course



## Computer Integrated Manufacturing

with a consolidated score of **81** %

Online Assignments	25/25	Proctored Exam	55.5/75
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Total number of candidates certified in this course: **865**

*Ratish*

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur

Jan-Apr 2022  
(12 week course)

*Satyaki*

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22ME10S24240409

To validate and check scores: <https://npTEL.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22ME56S44240447

To  
BHASKAR DHONDI GAIKWAD  
PLOT NO.9, HARINAYAN PARK  
ISBAVI, SABALE NAGAR  
PANDHARPUR  
MAHARASHTRA - 413304  
PH. NO :9545553790



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**BHASKAR DHONDI GAIKWAD**

for successfully completing the course



## Manufacturing Guidelines for Product Design

with a consolidated score of **77** %

Online Assignments	21.67/25	Proctored Exam	55.5/75
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Total number of candidates certified in this course: **371**

**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Feb-Apr 2022  
(8 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL22ME56S44240447

To validate and check scores: <https://nptel.ac.in/noc>




**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

**ATAL FDP**



### Online ATAL Attended by Faculty Members

Sr. No.	Name of Faculty	Title of Professional Development Program	Type of Course	Duration	Date (From-To)
1	/ Prof. P.K.Patil	Multi-Objective Optimization And Product Innovation Through Triz( Theory To Resove Inventive Problems)	ATAL FDP	5 days	12/07/2021 to 16/07/2021
2	/ Prof. P.K.Patil	Design Thinking For Societal Entrepreneurship	ATAL FDP	5 days	05/07/2021 to 09/07/2021
3	Dr.P.A.Dhavale	Recent Advances And Application Of Iot In Renewable Energy Technologies	ATAL FDP	5 days	23/08/2021 to 27/08/2021
4	Dr.P.A.Dhavale	Alternative Fuels For Ic Engine	ATAL FDP	5 days	2021-08-02 to 2021-08-06
5	Dr.S.A.Sonawane	Design Thinking For Societal Entrepreneurship	ATAL FDP	5 days	5/07/2021 to 9/07/2021
6	Prof. A.A.Shinde	"Internet Of Things: Product Design, Development And Implementation"	ATAL FDP	5 days	02/08/2021 To 06/08/2021
7	Prof. A.A.Shinde	"Augmented Reality And Virtual Reality"	ATAL FDP	5 days	09/08/2021 To 13/08/2021
8	Prof. A.K.Parkhe	Lab-On-A-Chip	ATAL FDP	5 days	12/07/2021 to 16/07/2021
9	Prof. A.K.Parkhe	Developing Interpersonal Skills And Effective Communication Intelligence	ATAL FDP	5 days	06/12/2021 to 10/12/2021
10	Prof. D.D.Ronge	Atal- "Basics Of Electric Vehicles"	ATAL FDP	5 Days	10/09/2021 to 14/09/2021
11	Prof.B.D.Gaikwad	Design Thinking For Societal Entrepreneurship	ATAL FDP	5 days	5/07/2021 to 9/07/2021
12	Prof.C.C.Jadhav	Aicte Training And Learning (Atal) Academy Online Elementary Fdp On "Emerging Technologies In	ATAL FDP	5 days	14-06-2021 to 18-06-2021
13	Prof.C.C.Jadhav	Aicte Training And Learning (Atal) Academy Online Elementary Fdp On "Design, Modeling And	ATAL FDP	5 days	07-06-2021 to 11-06-2021
14	Prof.D.T.Kashid	Applications Of Artificial Intelligence In Mechanical Engineering	ATAL FDP	5 days	2021-8-2 to 2021-8-6
15	Prof.D.T.Kashid	Recent Advances And Application Of Iot In Renewable Energy	ATAL FDP	5 days	23/08/2021 to 27/08/2021
16	Prof.K.B.Jundale	Electric Vehicle: Design To Product Development	ATAL FDP	5 days	01/09/2021 to 05/09/2021
17	Prof.S.B.Bhosale	Novel Materials	ATAL FDP	5 days	23/8/21 to 27/8/20
18	Prof.S.J.Shinde	Fdp On Alternative Fuels	ATAL FDP	1 Week	2021-08-02 to 2021-08-06
19	Prof.S.M.Khomane	Lab-On-A-Chip	ATAL FDP	5 days	12/07/2021 to 16/07/2021
20	Prof.S.M.Khomane	Biomems And Lab On Chip Technologies For Point Of Care Applications	ATAL FDP	5 days	05/07/2021 to 09/07/2021
21	Prof.S.S.Jadhav	Alternative Fuels For Ic Engine	ATAL FDP	1 Week	2021-08-02 to 2021-08-06
22	Prof.S.Y.Salunkhe	"Design Thinking And Creativity For Educators"	ATAL FDP	5 Days	27/09/2021 to 01/10/2021
23	Prof.S.Y.Salunkhe	"Feature Based Product Design, Digital Manufacturing"	ATAL FDP	5 Days	20/09/2021 to 24/09/2021
24	Prof.V.R.Chavan	Design Thinking For Societal Entrepreneurship"	ATAL FDP	One Week	05-07-2021 to 09-07-2021
25	Prof.Y.M.Khedkar	Harnessing Potential Of Online Learning In Higher Education	ATAL FDP	5 days	2/08/21 to 6/08/21
26	Prof.Y.M.Khedkar	Design Thinking And Product Development	ATAL FDP	5 days	23/08/21 to 27/08/21
27	Prof.Y.M.Khedkar	Design Thinking	ATAL FDP	5 days	1/6/2021 to 2/6/21

  
 HEAD,  
 Dept. of Mechanical Engg.  
 C.O.E. Pandharpur

## ATAL Certificates Samples





No:ATAL/2021/1627194761



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training And Learning (ATAL) Academy**

**Certificate**

This is certified that **SHASHIKANT SUBHASH JADHAV**, Assistant Professor of **SVERI's college of engineering Pandharpur** participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Alternative fuels for IC Engine" from 2021-08-02 to 2021-08-06 at University College of Engineering (UCET), Vinobabhave University Hazaribag.

Adviser-I, ATAL Academy



Coordinator

No:ATAL/2021/1620383595



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training And Learning (ATAL) Academy**

**Certificate**

This is certified that **Chetan Chandrakant Jadhav**, Assistant Professor of **SVERI's college of Engineering Pandharpur** participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Emerging Technologies in Product Design & Development" from 2021-06-14 to 2021-06-18 at **GOVERNMENT COLLEGE OF ENGINEERING CHANDRAPUR**.

Director ATAL Academies



Coordinator



No: ATAL/2021/1627124072



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy**

***Certificate***

This is certified that **Amitkumar Ashokrao Shinde**, Assistant Professor of **SVERI'S COE, Pandharpur** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online Elementary FDP** on "**Augmented Reality and Virtual Reality**" from **09/08/2021** to **13/08/2021** at **Maulana Azad National Urdu University Polytechnic, Hyderabad**.

Advisor-I, ATAL Academy  
Dr. Mamta Rani Agarwal



Coordinator

No: ATAL/2021/1625829837



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training And Learning (ATAL) Academy**

***Certificate***

This is certified that **Yashpal Marutirao Khedkar**, Assistant Professor of **SVERI's College Of Engineering Pandharpur** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online Elementary FDP** on "**Harnessing Potential of Online Learning in Higher Education**" from **2021-08-02** to **2021-08-06** at **INDIRA GANDHI NATIONAL OPEN UNIVERSITY (IGNOU)**.

Advisor-I, ATAL Academy



Coordinator




**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

**Faculty Development  
Programme/Short Term Training  
Programme**



**Online FDP STTP Attended by Faculty Members**

Sr. No.	Name of Faculty	Title of Professional Development Program	Type of Course	Duration	Date (From- To)
1	/ Prof. P.K.Patil	How To Conduct The Student Induction (Sip) Program	FDP	5 days	13/09/2021 TO 17/09/2021
2	/ Prof. P.K.Patil	"Augmented Reality And Virtual Reality"	UHV	5 days	20/09/2021 to 24/09/2021
3	Dr.P.A.Dhavale	Sustainable Waste Management	AICTE & ISTE	3 Days	18/12/2021 to 22/12/2021
4	Dr.R.R.Gidde	Out Come Based Teaching Learning	FDP	5 days	21/03/25 to 25/3/22
5	Dr.S.A.Sonawane	Introduction To Finance And Accounting	FDP	112 days	02/08/2021 to 21/11/2021
6	Dr.S.S.Wangikar	Applications Of Artificial Intelligence In Modern Manufacturing	FDP	5 Days	3/10/22 to 7/10/22
7	Prof. A.A.Shinde	1. "Inculcating Universal Human Values In Technical	AICTE	1 Week	26 July 2021 to 30 July 2021
8	Prof. A.A.Shinde	2. Online Uhv Refresher 1	AICTE	5 days	14/02/2022 to 18/02/2022
9	Prof. A.K.Parkhe	Alternative Fuels For Ic Engine	UHV	5 days	20/09/2021 to 24/09/2021
10	Prof. A.K.Parkhe	"Internet Of Things: Product Design, Development And Implementation"	UHV	5 days	14/02/2022 to 18/02/2022
11	Prof. K.S.Pukale	"Emerging Trends In Thermal Engineering"	FDP	5 Days	14-06-2021 to 19-06-2021
12	Prof.B.D.Gaikwad	Innovatios In Aditive Manufacturing	FDP	5 days	13/09/2021 to 17/09/2020
13	Prof.B.D.Gaikwad	Inculcating Universal Human Values In Technical Education	ISTE	7 days	18/01/2022 to 24/01/2022
14	Prof.B.D.Gaikwad	Fdp On Alternative Fuels	UHV	5 days	14/02/2022 to 18/02/2022
15	Prof.B.D.Gaikwad	"Innovations And Challenges In Industry 4.0 Automation	UHV	5days	8/11/2021 to 12/11/2021
16	Prof.C.C.Jadhav	Faculty Development Programme (Fdp) On "Innovations In Additive Manufacturing	FDP	5 days	13-09-2021 to 17-09-2021
17	Prof.C.C.Jadhav	Five Day Online Fdp Programme On Applications Of Artificial Intelligence In	FDP	5 days	03-08-2021 to 07-08-2021
18	Prof.C.C.Jadhav	Advanced Research Methodology	FDP	5 days	26-07-2021 to 30-07-2021
19	Prof.C.C.Jadhav	Harnessing Potential Of Online Learning In Higher Education	UHV	5 days	20/09/2021 to 24/09/2021
20	Prof.D.T.Kashid	Sustainable Waste Management	Udemy		11-03-2022
21	Prof.D.T.Kashid	"Innovations And Challenges In Industry 4.0 Automation	AICTE Sponsored	one week	26th July 2021 to 31st July 2021.
22	Prof.G.K.Inamdar	Fdp On "Innovations In Additive Manufacturing"	FDP	5 days	13/09/2021 TO 17/09/2021
23	Prof.K.B.Jundale	Innovatios In Aditive Manufacturing	FDP	5 days	13/09/2021 to 17/09/2021
24	Prof.P.B.Asabe	Design Thinking And Product Development	UHV	5 days	20/09/2021 to 24/09/2021
25	Prof.S.B.Bhosale	Importance Of Innovation And Research Culture	FDP	12 Days	15/3/21 to 26/3/2021

  
 Dept. of Mechanical Engg  
 G.O.E. Pandharpur

Sr. No.	Name of Faculty	Title of Professional Development Program	Type of Course	Duration	Date (From- To)
26	Prof.S.M.Kale	Recent Advances And Application Of lot In Renewable Energy Technologies	STTP	5 days	21-06-2021 to 25-06-2021
27	Prof.S.M.Kale	Aicte Training And Learning (Atal) Academy Online Elementary Fdp On "Design, Modeling	UHV	5 days	08/11/2021 to 12/11/2021
28	Prof.S.M.Khomane	Innovations In Additive Manufacturing	FDP	5 days	13/09/2021 to 17/09/2021
29	Prof.S.M.Khomane	Aicte Training And Learning (Atal) Academy Online Elementary Fdp On "Emerging	UHV	5 days	20/09/2021 to 24/09/2021
30	Prof.S.N.More	Alternative Fuels For Ic Engine	FDP	2 days	1/10/2021 AND 11/10/2021
31	Prof.S.N.More	"Feature Based Product Design, Digital Manufacturing"	UHV	5 days	08/11/2021 to 12/11/2021
32	Prof.S.R.Gavali	"Sustainable Waste Management	FDP	5 Days	18/10/21 to 22/10/21
33	Prof.S.V.Jadhav	"Electric Vehicles	FDP	5 Days	7/2/2022 to 12/2/2022
34	Prof.U.L.Anuse	Writing And Publishing Reserch Article In Reputed Journal	FDP	5 Days	13/09/2022 to 17/09/2022
35	Prof.U.L.Anuse	Design Thinking	UHV	5 Days	04/10/2021 to 08/10/2021
36	Prof.V.R.Chavan	Online Uhv.Refresher 1	UHV	One Week	25th Feb2022 to 04 March 2022
37	Prof.Y.M.Khedkar	Sveri Iic Innovation Ambassador Orientation Series	FDP	2 days	27/8/2021 to 28/8/2021
38	Prof.Y.M.Khedkar	"Inculcating Universal Human Values In Technical	FDP	2 days	22/08/2022 to 23/08/2022
39	Prof.Y.M.Khedkar	Energy And Environmental Science, Technology And Management For Sustainable	FDP	5 days	20/5/2021 to 25/05/2021
40	Prof.Y.M.Khedkar	Recent Trends In Mechanical Engineering	FDP	9 days	8/8/2022 to 16/8/2022
41	Prof.Y.M.Khedkar	"Design Thinking And Creativity For Educators"	UHV	5 days	14/2/2022 to 18/2/2022
42	Prof.Y.M.Khedkar	How To Conduct The Student Induction (Sip) Program	AICTE	1 day	21/10/2021
43	Prof.Y.M.Khedkar	Inculcating Universal Human Values In Technical Education	AICTE	5 days	27/09/21 to 01/10/2021

  
**HEAD,**  
 Dept. of Mechanical Engg.  
 C.O.E. Pandharpur



# FDP Certificates





LOKNETE. DR. BALASAHEB VIKHE PATIL  
(PADMA BHUSHAN AWARDEE)  
PRAVARA RURAL EDUCATION SOCIETY  
**PRAVARA RURAL ENGINEERING COLLEGE**  
LONI



## Certificate of Participation

Certified that

**Dr. RANJIT RAMKRISHNA GIDDE**

working at

**SVERI's College of Engineering, Pandharpur**

has participated in one week Faculty Development Programme (FDP) on  
**Outcome Based Teaching-Learning**  
organized by Department of Chemical Engineering,  
Pravara Rural Engineering College, Loni  
from 21<sup>st</sup> to 25<sup>th</sup> March 2022



**Dr. S. B. Magar**  
Convener

**Dr. S. A. Misal**  
Head of Department

**Dr. S. M. Gulhane**  
Principal

3/26/2022 20:10:18

PRAVARA

## HONOUR CODE CERTIFICATE

Issued: 22 November 2021



**IITBX**  
Infinite Learning

CDEEP

### Sachin Ashok Sonawane

has successfully completed

**FAC101x: Introduction to Finance and Accounting**

an online course conducted from 2 August 2021 to 21 November 2021.

This course is offered by **IITBombayX**, an online learning initiative of **Indian Institute of Technology Bombay**.

**Dr. CA. Varadraj Bapat**  
Professor  
Shailesh J. Mehta School of Management  
IIT Bombay

**S.V.D. Nageswara Rao**  
Professor  
Shailesh J. Mehta School of Management  
IIT Bombay

The Honour Code is elaborated in <https://www.iitbombyx.in/honour>  
\*Authenticity of this certificate can be verified in <https://certificate.iitbombyx.in/verifycode?code=202020164094702022ec18f48cc0f23/Certificate.pdf>





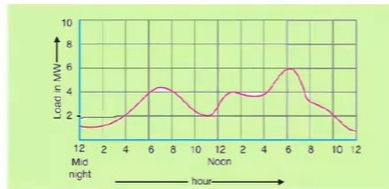
**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

**Power Point  
Presentations & Video**

## PPT

### TYPE OF LOAD CURVES

- Daily load curve - Load variations during the whole day
- Monthly load curve - Load curve obtained from the daily load curve
- Yearly load curve - Load curve obtained from the monthly load curve
- Load Duration Curve
- Integrated Load Curve



12



Pradnya Bhuse

### Power

- Power: It is defined as rate of doing work
  - S.I unit of power is Watt or KW
  - How to calculate energy consumption
  - Volt \* Ampere = Watt
- $V \cdot I = \text{Watt}$
- $1\text{KW} = 10^3 \text{ watt}$
- $1\text{MW} = 10^6 \text{ watt}$
- $1\text{GW} = 10^9 \text{ Watt}$



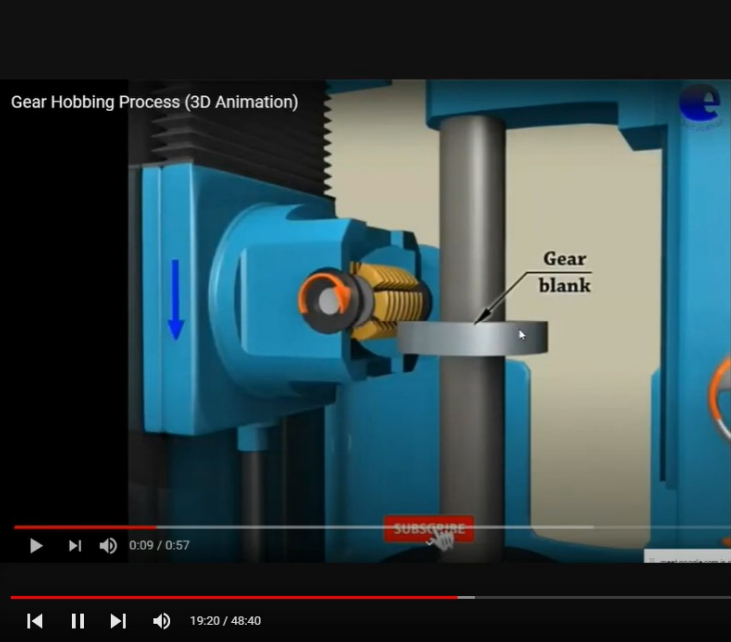
Pradnya Bhuse

# Video Demonstration during Lecture

YouTube

Search

**Gear Hobbing Process (3D Animation)**



Popat Asaabe

0:09 / 0:57

19:20 / 48:40

Manufacturing Technology  
Chap 4 4 Gear Hobbing, Gear Shaving

S.Y. B.Tech. Mech. B  
40 subscribers

Subscribed

1 Like

Share

Download


Clip

Save

YouTube

Search

**Casting Metal: the Basics**



6:00 / 15:19

Manufacturing Process-Prof.S.N.More(2021-22 Sem-I)

**Manufacturing process Lecture no. 2**

S.Y. B.Tech.Mech. A  
48 subscribers

Subscribed

1 Like

Share

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**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

# **Video Lectures**

# You Tube Channels of different class.

## Class- S.Y.B.Tech\_A

The screenshot shows a YouTube channel page for 'S.Y. B.Tech. Mech. B'. The channel has 40 subscribers and is subscribed to. The page displays four created playlists:

- Fluid Mechanics and Fluid Machines**: 26 videos
- Manufacturing Technology**: 32 videos
- Kinematics and Theory of Machines**: 43 videos
- Power Plant and Energy Engineering**: 29 videos

Each playlist has a 'View full playlist' link below it. The channel's navigation menu includes Home, Shorts, Subscriptions, Library, History, Your videos, Watch later, and Liked videos. The channel's name and handle are @s.y.b.tech.mech.b7379.

## Class- B.Tech\_A



**Shri Vithal Education & Research Institute's  
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# **ICT Tools for Course Delivery**



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S  
**COLLEGE OF ENGINEERING, PANDHARPUR**

B. No. 54, Gopalpur -Ranjani Road, Gopalpur, Tal.- Pandharpur- 413 304,Dist.- Solapur (Maharashtra)

Tel.: 02186-216063, 9503103757, E-mail : [coe@sveri.ac.in](mailto:coe@sveri.ac.in), Website: [www.sveri.ac.in](http://www.sveri.ac.in)

(Approved by A.I.C.T.E., New Delhi and affiliated to Solapur University, Solapur)

NBA Accredited all Eligible UG Programmes and , NAAC, Accredited Institute,

Accredited by the Institute of Engineers (India), Kolkata and TCS, Pune ISO 9001-2015 Certified Institute



ISO 9001:2015



www.tuv.com  
ID 9105048196

Sr. No	Name of Activity	Purpose
1	Google Classroom	To provides a central location to communicate with students, ask questions, and make assignments
2	Smart Board	Smart Board approach helps the instructor to adopt innovative content delivery style. It improves student learning, enhances literacy, and boosts attentiveness.
3	Tablets	Tablets are used for online teaching of mathematical and drawing related Courses.
4	LCD Projector	An LCD projector is a type of video projector for displaying video, images or computer data on a screen or other flat surface. It is a modern equivalent of the slide projector or overhead projector.

# Visualization

**Manufacturing Processes**

**Topic - 01**

## Casting Processes

**PPT**

**Basic steps in Casting**

**Basic steps in Casting Process**

**Draft or taper allowance**

- The **taper allowance** is provided on **all vertical surfaces** of the pattern
- So that it can be removed from the sand without tearing the sides of the sand mold.

Without allowance

With allowance

MD CAD Unit 1 lect 8

**\* Surface Roughness Symbol :-**

1)

2)

3)

⇒ prepare by using any material - Dan

⇒ casting, forging, extrusion, machining

⇒ removal of material is allowed

⇒ material should not be removed

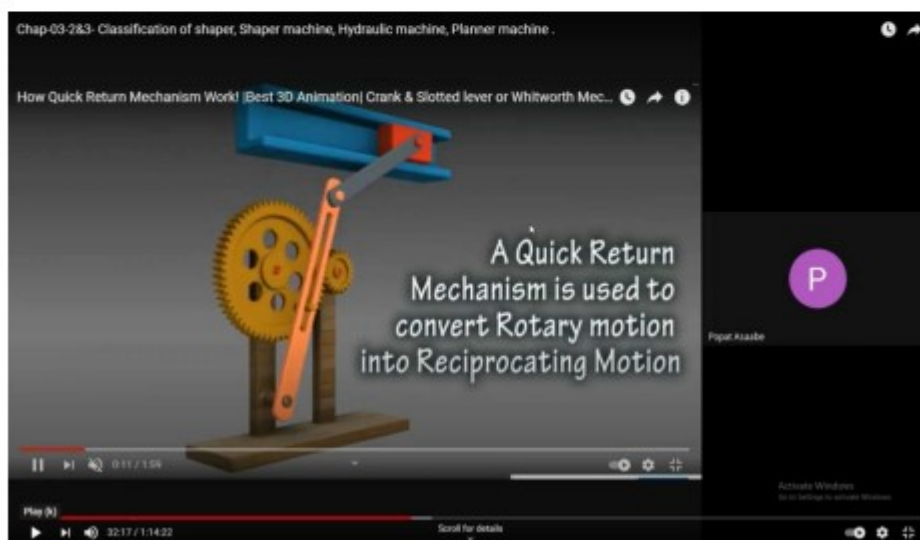
1:15:03 / 1:52:00

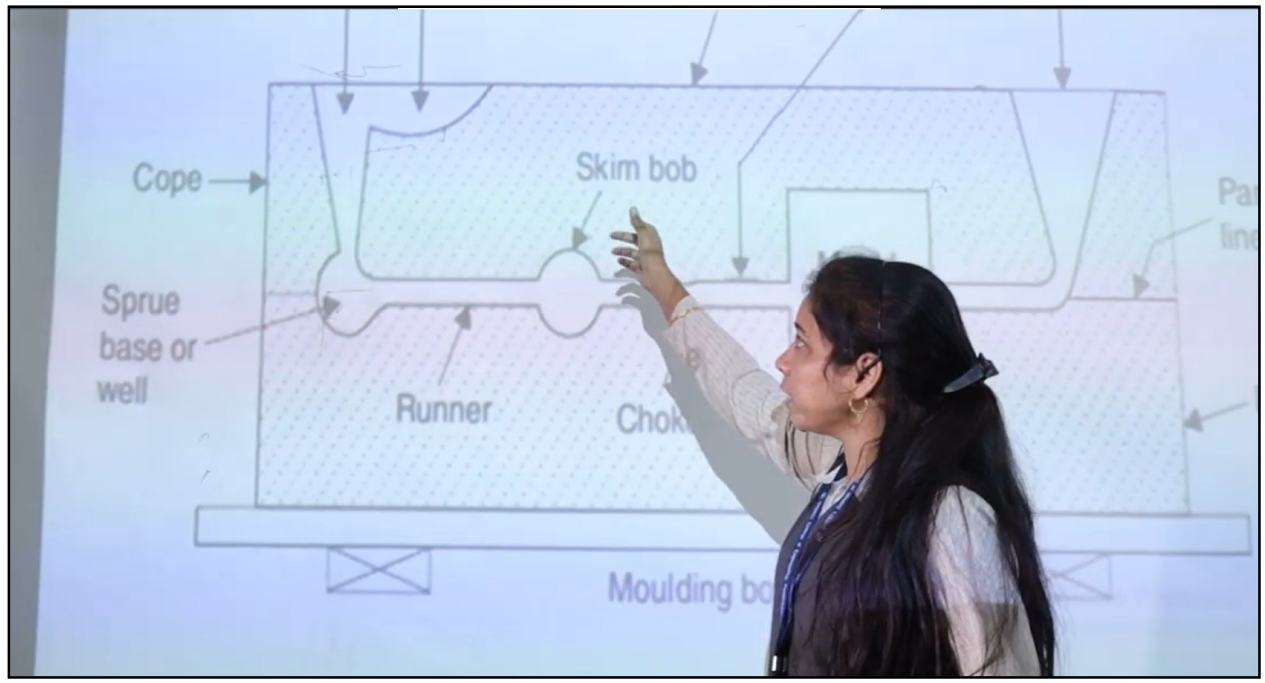


## Video Demonstration during Lecture



## **Animation Demonstration during Lecture.**





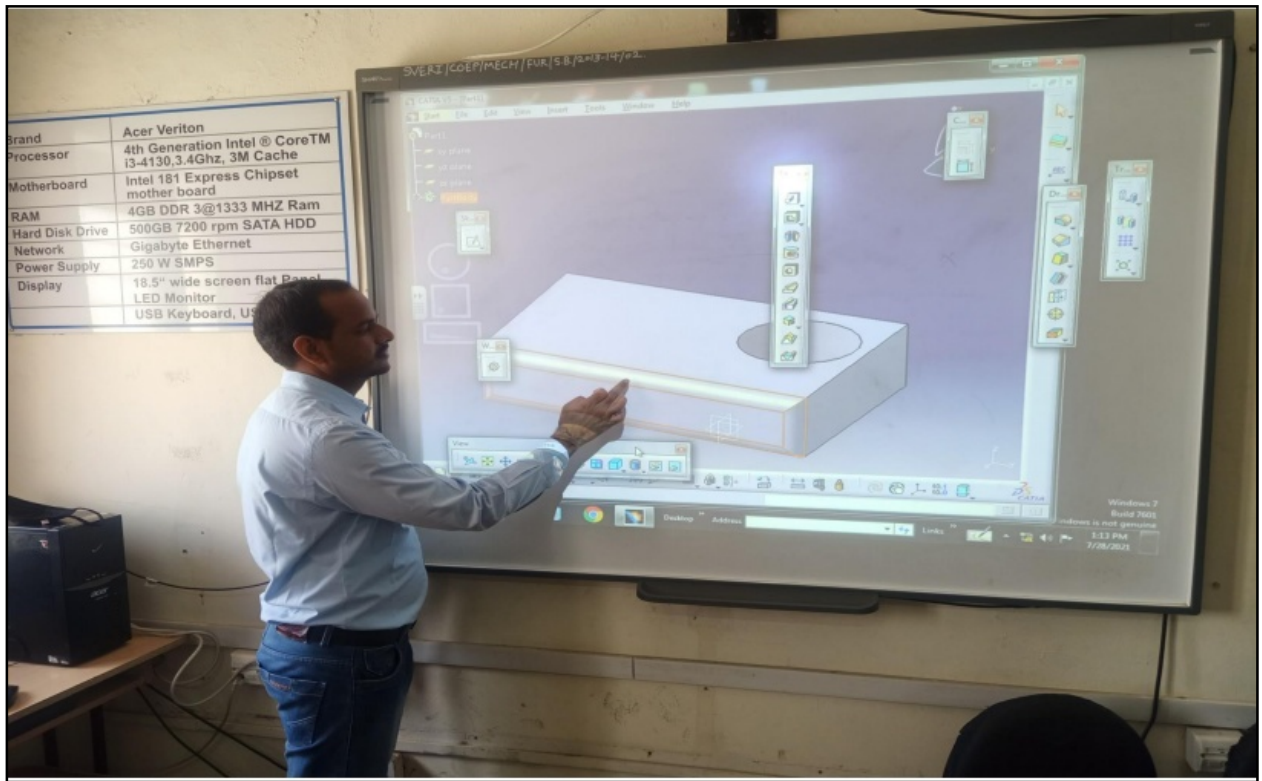
# Use of Smart Board and Wacom Tablets

SVERI's College of Engineering, Pandharpur

Department of Mechanical Engineering

Use of Smart board for the subjects like AutoCAD, CATIA etc.

## 1. Subject- CATIA Practical



2.

# Use of tablets for online teaching of Mathematical & Drawing Related Subjects.

## 1. Subject- M-III.



## 2. Subject-Machine Design

As both the gears are made up of same material, Pinion is weaker than gear.

1) Beam Strength  $\rightarrow$

$$S_b = mnbvY$$

Virtual no. of teeth  $Z_p' = \frac{Z_p}{\cos^3 \phi} = \frac{20}{\cos^3 25} = 26.87 \approx 27$

$$S_b = 4 \times 40 \times 200 \times 0.3475$$
$$S_b = 11.12 \times 10^3 \text{ N}$$

2) Wear Strength  $\rightarrow$

$$S_w = bQd_p K$$
$$Q = \frac{2Z_g}{Z_g + Z_p} = \frac{2 \times 100}{100 + 20} = 1.667$$
$$K = 0.16 \left( \frac{BHN}{100} \right)^2 = 0.16 \left( \frac{200}{100} \right)^2 = 1.44$$
$$d_p = \frac{mZ_p}{\cos \phi} = \frac{4 \times 20}{\cos 25} = 88.27 \text{ mm}$$

3) Tangential Load ( $P_t$ )

Pitting is the criterion for design

$$S_w < S_b$$
$$S_w = \frac{40 \times 1.67 \times 88.27 \times 144}{\cos^3 25} = 10.32 \times 10^3 \text{ N}$$
$$V = \frac{\pi d_p n_p}{60 \times 10^3} = \frac{\pi \times 88.27 \times 720}{60 \times 10^3} = 3.33 \text{ m/s}$$
$$C_w = \frac{S_c}{S_c + V^4} = \frac{5.6}{5.6 + 15.33} = 0.75$$
$$S_w = P_t \times C_w$$
$$P_{eff} = C_s P$$

## **Use of Online Platform for Study Material**

### **Sample Study Material Links**

1. [https://docs.google.com/spreadsheets/d/1mZys3IJ1mSTjxXfgTHRmOnNXw\\_0lIZ3P5UiQB-gOPI/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1mZys3IJ1mSTjxXfgTHRmOnNXw_0lIZ3P5UiQB-gOPI/edit?usp=sharing)
2. <https://docs.google.com/spreadsheets/d/1ojDaPtU22IGtn0Uauvwrr6FSzbfQspOFnCdEc6PfdM/edit?usp=sharing>





# Study Material Sheets

Study Material Sheet\_S.Y.- B (DSY) MECH\_2021-22 sem -I ☆ @ ☰

File Edit View Insert Format Data Tools Extensions Help Last edit was seconds ago

75% Arial 14 B I U A

SVERI's College Of Engineering Pandharpur											
Department of Mechanical Engineering											
Name of Teacher	Prof. A. K. Parkhe			<b>Strength of Materials</b>							
Class & Division	S.Y. B. Tech, Div-B (DSY) A.Y. 2021-22										
Contact Number	9603632622										
Email	akparkhe@coe.sveri.ac.in										
Sr. No	Lecture Number	Planned Date	Actual Date	Time	Unit Name	Points covered in the Lecture	Youtube Link	ICT Tools used during teaching	Class Notes	Additional Notes (PPT)	Assignments Book Important Questi
1	1	21/12/2021	21/12/2021	1 pm to 2 pm	Introduction to SOM/AME/ MOM	Introduction to subject-MOM or SOM or AME, Teaching & Examination structure, Introduction to syllabus of MOM	<a href="https://youtu.be/ikbGpvn5htM">https://youtu.be/ikbGpvn5htM</a>	Power Point Presentations (PPTs), Youtube, Animations, Wacom pen tablet			
2	2	21/12/2021	21/12/2021	11 pm to 12 noon		Difference between Applied Mechanics & Strength of Material/MOM/AME					
3	3	22/12/2021	22/12/2021	10 am to 11 am		Introduction to various testing methods (Tensile, Bending & Torsion Testing)					
4	4	22/12/2021	22/12/2021	11 pm to 12 noon		CH-1 Introduction to Simple Stress & Strain - Introduction to Tensile & Comp. stress, Linear & Lateral Strain, Introduction to Shear stress, Shear Strain, Introduction to all Elastic Constants	<a href="https://youtu.be/59Tqc74bq">https://youtu.be/59Tqc74bq</a>				
5	5	23/12/2021	23/12/2021	10 am to 11 am		Deformation of body due to External Load & Self Weight, Strain-Strain Diagram for Ductile Material					
6	6	23/12/2021	23/12/2021	11 pm to 12 noon		Strain-Strain Diagram for Brittle Material, Factor of Safety, Relation between all Elastic Constants, Formule for Type-1 problems, Unit conversions	<a href="https://youtu.be/O-vGF0pYNPz">https://youtu.be/O-vGF0pYNPz</a>				

MOM MP1 ATD MD&CAD ICE Aptitude CIP Explore

4	4	22/12/2021	22/12/2021	11 pm to 12 noon	CH-1 Introduction to Simple Stress & Strain	CH-1 Introduction to Simple Stress & Strain - Introduction to Tensile & Comp. stress, Linear & Lateral Strain, Introduction to Shear stress, Shear Strain, Introduction to all Elastic Constants	<a href="https://youtu.be/59Tqc74bq">https://youtu.be/59Tqc74bq</a>	Power Point Presentations (PPTs), Youtube, Wacom pen tablet, Google form	<a href="https://drive.google.com/file/d/1rl2NuCrc4C3qQUOD1Sb6KNVHbWuO_x99VVpPatL_FevuG70vd8wuPUUQJMI/view?usp=sharing">https://drive.google.com/file/d/1rl2NuCrc4C3qQUOD1Sb6KNVHbWuO_x99VVpPatL_FevuG70vd8wuPUUQJMI/view?usp=sharing</a>	<a href="https://drive.google.com/file/d/1W3R5WOK/view?usp=sharing">https://drive.google.com/file/d/1W3R5WOK/view?usp=sharing</a>	
5	5	23/12/2021	23/12/2021	10 am to 11 am		Deformation of body due to External Load & Self Weight, Strain-Strain Diagram for Ductile Material					
6	6	23/12/2021	23/12/2021	11 pm to 12 noon		Strain-Strain Diagram for Brittle Material, Factor of Safety, Relation between all Elastic Constants, Formule for Type-1 problems, Unit conversions	<a href="https://youtu.be/O-vGF0pYNPz">https://youtu.be/O-vGF0pYNPz</a>				
7	7	27/12/2021	27/12/2021	10 am to 11 am		Problems on Type-1 (Stress, Strain, dimension calculations)	<a href="https://youtu.be/2y38AH8SustI">https://youtu.be/2y38AH8SustI</a>				
8	8	27/12/2021	27/12/2021	11 pm to 12 noon		Problems on Type-2 (Bars of varying cross sections)					
9	9	29/12/2021	29/12/2021	10 am to 11 am		Problems on Type-2 (Bars of varying cross sections)					
10	10	29/12/2021	29/12/2021	11 pm to 12 noon		Problems on Type-3 (Principal of Superposition)	<a href="https://youtu.be/o30EzW5J5vIE">https://youtu.be/o30EzW5J5vIE</a>				
11	11	02/01/2022	02/01/2022	1 pm to 2 pm		Problems on Type-3 (Principal of Superposition)					
12	12	02/01/2022	02/01/2022	2 pm to 3 pm		Introduction Composite structures, Problems on Type-4 (Composite Bars)	<a href="https://youtu.be/11nBtv_Bhc">https://youtu.be/11nBtv_Bhc</a>				
13	13	04/01/2022	04/01/2022	1 pm to 2 pm		Problems on Type-4 (Composite Bars)					
14	14	04/01/2022	04/01/2022	2 pm to 3 pm		Introduction to Uniaxial, Bi-axial & Tri-axial condition for sections for Volumetric Stree-Strain, Change in Volume calculation	<a href="https://youtu.be/8bJvdXTmLQ">https://youtu.be/8bJvdXTmLQ</a>				
15	15	07/01/2022	07/01/2022	10 am to 11 am		Problems on Type-5 (Volumetric Stree-Strain, Change in Volume calculation)					
16	16	07/01/2022	07/01/2022	11 pm to 12 noon		Problems on Type-5 (Volumetric Stree-Strain, Change in Volume calculation)	<a href="https://youtu.be/ShUKUbsKVZE">https://youtu.be/ShUKUbsKVZE</a>				

# ERP Based CO-PO Attainment

## R-Work Software.

### 1. Assigned Subjects

**RWork** SVERI'S COLLEGE OF ENGINEERING, PANDHARPUR

**Academics Dashboard**

Course-wise Class-wise Workload Distribution (Program-wise) Workload Distribution (Department-wise)

Academic Year: 2021-22 Department: MECHANICAL ENGINEERING (ME)

Semester: SEMESTER II

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Sr. No.	Name of Teaching Staff	Program	Division	Semester	Course	Theory	Practical	Tutorial	Project	Workload
1	WANGIKAR SANDEEP SITARAM	UNDER GRADUATE IN MECHANICAL ENGINEERING	B	VI	MACHINE DESIGN -II (ME321-21)	3	2	-	-	
2	JADHAV SUBHASH VENKATRAO	UNDER GRADUATE IN MECHANICAL ENGINEERING	A	IV	INTRODUCTION TO AUTOMOBILE ENGINEERING (H4443-21)	3	-	1	-	
3	SONAWANE SACHIN ASHOK	UNDER GRADUATE IN MECHANICAL ENGINEERING	A	VI	MACHINE DESIGN -II (ME321-21)	3	2	-	-	
4	GAVALI SACHIN RANCHANDRA	UNDER GRADUATE IN MECHANICAL ENGINEERING	B	IV	FLUID MECHANICS & FLUID MACHINES (ME223-21)	3	2	-	-	
		UNDER GRADUATE IN MECHANICAL ENGINEERING	A	IV	MECHANICAL WORKSHOP-I (ME226-21)	-	2	-	-	
		UNDER GRADUATE IN MECHANICAL ENGINEERING	B	IV	MECHANICAL WORKSHOP-I (ME226-21)	-	2	-	-	
5	GAIKWAD BHASKAR DHONDI	UNDER GRADUATE IN MECHANICAL ENGINEERING	A	VI	MECHANICAL WORKSHOP-III (ME328-21)	-	2	-	-	
		UNDER GRADUATE IN MECHANICAL ENGINEERING	B	VI	PLASTIC ENGINEERING (ME325-21)	3	2	-	-	
		UNDER GRADUATE IN MECHANICAL ENGINEERING	B	VI	MECHANICAL WORKSHOP-III (ME328-21)	-	2	-	-	
6	BHOSALE SHRIRISHNA BABASAHEB	UNDER GRADUATE IN MECHANICAL ENGINEERING	A	IV	MANUFACTURING TECHNOLOGY (ME222-21)	3	2	-	-	
7	GIDDE SANJAYSINH RAMKRISHNA	UNDER GRADUATE IN MECHANICAL ENGINEERING	A	IV	KINEMATICS & THEORY OF MACHINES (ME224-21)	3	2	-	-	
8	PATIL PRADHYA KISHOR	UNDER GRADUATE IN MECHANICAL ENGINEERING	B	IV	POWER PLANT ENGINEERING (ME225-21(B))	3	2	-	-	
9	SHAKHI NISAR SHAUKAT	-	D	II	ENGINEERING GRAPHICS AND CAD (C125-20)	2	8	-	-	
10	GADEGE BALASAHEB TUKARAM	-	A	II	ENGINEERING GRAPHICS AND CAD (C125-20)	2	8	-	-	
11	JADHAV CHETAN CHANDRAKANT	UNDER GRADUATE IN MECHANICAL ENGINEERING	B	VI	INDUSTRIAL & QUALITY MANAGEMENT (ME324-21)	3	-	1	-	
		UNDER GRADUATE IN MECHANICAL ENGINEERING	B	VI	SELF-LEARNING TECHNICAL (SLH32-21)	-	-	-	-	
		UNDER GRADUATE IN MECHANICAL ENGINEERING	B	VIII	PROJECT WORK STAGE-II SEMINAR (ME421-21)	-	-	-	2	
12	PUKALE KULDIP SURESH	UNDER GRADUATE IN MECHANICAL ENGINEERING	B	VIII	PROJECT WORK STAGE-III SEMINAR (ME421-21)	-	-	-	2	
		UNDER GRADUATE IN MECHANICAL ENGINEERING	B	VIII	PROJECT WORK (REPORT SUBMISSION & PRESENTATION) (ME423-21)	-	-	-	4	

### 2. Course Outcomes of subject

**RWork** SVERI'S COLLEGE OF ENGINEERING, PANDHARPUR

**Course Details**

View/Update Course Details

Course Information Course CO Information Syllabus Course Tool Information

Academic Year\*: 2021-22 Program\*: UNDER GRADUATE IN MECHANICAL ENGINEERING (IME1)

Class\*: SECOND YEAR Semester\*: SEMESTER I

Division\*: B Course\*: MANUFACTURING PROCESSES (ME213-19)

Sr. No.	CO Code	CO Statements	Bloom's Level
1	ME213-19.1	DEMONSTRATE THE DIFFERENT TYPES OF PATTERN AND EXPLAIN GATING SYSTEM USED IN CASTING PROCESS.	BL2 UNDERSTAND
2	ME213-19.2	IDENTIFY APPROPRIATE CASTING TECHNIQUE AND MELTING PRACTICES FOR MANUFACTURING A COMPONENT.	BL3 APPLY
3	ME213-19.3	CLASSIFY DIFFERENT METHODS FOR INSPECTION AND EXPLAIN RECENT TECHNIQUES IN FOUNDRY MECHANIZATION.	BL2 UNDERSTAND
4	ME213-19.4	ILLUSTRATE AND COMPARE THE TYPES OF FORMING PROCESSES SUCH AS ROLLING, FORGING, EXTRUSION, DRAWING ETC.	BL2 UNDERSTAND
5	ME213-19.5	MAKE USE OF VARIOUS ADVANCED APPLICATION	BL3 APPLY
6	ME213-19.6	EXPLAIN IN BRIEF ABOUT VARIOUS JOINING PROCESSES ENGINEERING APPLICATION.	BL2 UNDERSTAND

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### 3. CO-PO Mapping of Subject

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Pradya

- My Dashboard
- Student Center
- Employee Profile
- Academics
- Examination
- RWork Settings
- NBA - UG Tier II

#### Course - PO Mapping Index

CO-PO Matrix Note: \* Indicates Mandatory Fields

Academic Year 2021-22

Degree Level UNDER GRADUATE

Class SECOND YEAR

Division B

Program UNDER GRADUATE IN MECHANICAL ENGINEERING

Department MECHANICAL ENGINEERING

Semester SEMESTER II

Course POWER PLANT ENGINEERING (ME225-21(B))

Level of Co-relation  
 No Co-relation: 0   Low Co-relation: 1   Medium Co-relation: 2   High Co-relation: 3

Sr. No.	CO Code	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
1	ME225-21(B).1	3	1	-	1	-	-	-	-	-	-	-	-	-	1	-
2	ME225-21(B).2	3	2	-	1	-	-	-	-	-	-	-	-	-	2	-
3	ME225-21(B).3	3	2	-	2	-	-	-	-	-	-	-	-	-	2	-
4	ME225-21(B).4	3	1	-	1	-	-	-	-	-	-	-	-	-	1	-
5	ME225-21(B).5	3	2	-	3	-	-	-	-	-	-	-	-	-	2	-
6	ME225-21(B).6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Course PO Matrix

Sr. No.	Course Code	Course Name	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
1	ME225-21(B)	POWER PLANT ENGINEERING	3.00	1.60	-	1.60	-	-	-	-	-	-	-	-	-	1.60	-

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### 4. Assigned tools of Subject

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- Employee Profile
- Academics
- Examination
- RWork Settings
- NBA - UG Tier II

#### Course Details

View/Update Course Details

Course Information
Course CO Information
Syllabus
Course Tool Information

Academic Year\*  
2021-22

Program\*  
UNDER GRADUATE IN MECHANICAL ENGINEERING (1ME1)

Class\*  
SECOND YEAR

Semester\*  
SEMESTER I

Division\*  
B

Sr. No.	Course Code	Course Name	Assigned Tools	Action
1	ME211-19	APPLIED THERMODYNAMICS	ESE, ISE-1, FISE-1, ISE-2, FISE-2, ISE, ICA, ONLINE MCQ TESTS	FREEZED
2	ME212-19	MECHANICS OF MATERIALS	ESE, ISE-1, FISE-1, ISE-2, FISE-2, ISE, ICA, D, ICA, ONLINE MCQ TESTS, ASSIGNMENT	FREEZED
3	ME213-19	MANUFACTURING PROCESSES	ESE, ISE-1, FISE-1, ISE-2, FISE-2, ISE, LAB BOOK, PDE, ICA, D, ICA, ONLINE MCQ TESTS	FREEZED
4	ME214-19	MACHINE DRAWING & CAD	ESE, ISE-1, FISE-1, ISE-2, FISE-2, ISE, LAB BOOK, PDE, ICA, D, ICA, ONLINE MCQ TESTS	FREEZED
5	ME215-19	INTERNAL COMBUSTION ENGINES	ESE, ISE-1, FISE-1, ISE-2, FISE-2, ISE, LAB BOOK, ICA, D, ICA, ONLINE MCQ TESTS	FREEZED



# 5. CO Target Report

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- Employee Profile
- Academics
- Examination
- RWork Settings
- NDA - UG Tier II

### CO Targets

**POWER PLANT ENGINEERING CO Target**

Academic Year 2021-22 Program UNDER GRADUATE IN MECHANICAL ENGINEERING

Degree Level UNDER GRADUATE Department MECHANICAL ENGINEERING

Class SECOND YEAR Semester SEMESTER II

Division A Course POWER PLANT ENGINEERING (ME225-21(B))

Level of Co-relation  
 No Co-relation: NA Low Co-relation: 1 Medium Co-relation: 2 High Co-relation: 3

Internal Tool Information

Sr. No	Tool Name	ME225-21(B).1	ME225-21(B).2	ME225-21(B).3	ME225-21(B).4	ME225-21(B).5	ME225-21(B).6
1	ISE-1	2	2	2	NA	NA	NA
2	OBT-1	3	3	3	NA	NA	NA
3	THT-1	3	3	3	NA	NA	NA
4	ISE-2	NA	NA	NA	2	2	2
5	ASSIGNMENT	3	3	3	3	3	3
6	PPPE	3	3	3	3	3	3
7	LAB BOOK	3	3	3	3	3	3
<b>Average CO Target</b>		<b>2.83</b>	<b>2.83</b>	<b>2.83</b>	<b>2.75</b>	<b>2.75</b>	<b>2.75</b>

Internal Tool Weightage (%) \*

- My Dashboard
- Student Center
- Employee Profile
- Academics
- Examination
- RWork Settings
- NDA - UG Tier II

2	OBT-1	3	3	3	NA	NA	NA
3	THT-1	3	3	3	NA	NA	NA
4	ISE-2	NA	NA	NA	2	2	2
5	ASSIGNMENT	3	3	3	3	3	3
6	PPPE	3	3	3	3	3	3
7	LAB BOOK	3	3	3	3	3	3
<b>Average CO Target</b>		<b>2.83</b>	<b>2.83</b>	<b>2.83</b>	<b>2.75</b>	<b>2.75</b>	<b>2.75</b>

Internal Tool Weightage (%) \*

External Tool Information

Sr. No.	Tool Name	ME225-21(B).1	ME225-21(B).2	ME225-21(B).3	ME225-21(B).4	ME225-21(B).5	ME225-21(B).6
1	ESE	2	2	2	2	2	2
<b>Average CO Target</b>		<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>

External Tool Weightage (%) \*

Overall Course CO Target

Sr. No.	Tool Type	ME225-21(B).1	ME225-21(B).2	ME225-21(B).3	ME225-21(B).4	ME225-21(B).5	ME225-21(B).6	Overall Target
1	INTERNAL	2.83	2.83	2.83	2.75	2.75	2.75	2.75
2	EXTERNAL	2.00	2.00	2.00	2.00	2.00	2.00	2.00
3	OVERALL TARGET	2.17	2.17	2.17	2.15	2.15	2.15	2.15

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## 6. CO & BL Linking

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### Tool - CO & BL Linking

Link Tool Note: \* Indicates Mandatory Fields

**Academic Year\*** 2021-22

**Class\*** SECOND YEAR

**Division\*** B

**Program\*** UNDER GRADUATE IN MECHANICAL ENGINEERING (1ME1)

**Semester\*** SEMESTER II

**Course\*** POWER PLANT ENGINEERING (ME225-21(B))

Sr. No.	Tool	Status	Question Paper
1	ESE	<span style="color: green;">●</span> View/Update	<a href="#">Upload</a>
2	ISE-1	<span style="color: green;">●</span> View/Update	<a href="#">View</a>
3	OBT-1	<span style="color: green;">●</span> View/Update	<a href="#">View</a>
4	THT-1	<span style="color: green;">●</span> View/Update	<a href="#">View</a>
5	ISE-2	<span style="color: green;">●</span> View/Update	<a href="#">View</a>
6	UT-1	<span style="color: green;">●</span> View/Update	<a href="#">Upload</a>
7	ASSIGNMENT	<span style="color: green;">●</span> View/Update	NOT APPLICABLE*
8	LAB BOOK	<span style="color: green;">●</span> View/Update	NOT APPLICABLE*
9	PPPE	<span style="color: green;">●</span> View/Update	NOT APPLICABLE*

● Pending ● Completed

**Faculty Information**

<b>Theory Faculty</b>	<b>Practical Faculty</b>
P. K. PATIL	P. K. PATIL

## 7. Tool - Evaluation

RWork
SVERI'S COLLEGE OF ENGINEERING, PANDHARPUR
Pradhya

- My Dashboard
- Student Center
- Employee Profile
- Academics
- Examination
- RWork Settings
- NBA - UG Tier II

### Tool - Evaluation & Attainment

ISE-1 Marks Note: \* Indicates Mandatory Fields

**Academic Year** 2021-22

**Degree Level** UNDER GRADUATE

**Class** SECOND YEAR

**Division** A

**Tool Maximum Marks** 10

**Date of Exam** 04-09-2022

**Target Level (% Target Marks for CO Attainment)** 40 [Export the Details](#)

**Program** UNDER GRADUATE IN MECHANICAL ENGINEERING

**Department** MECHANICAL ENGINEERING

**Semester** SEMESTER II

**Course** POWER PLANT ENGINEERING (ME225-21(B))

**No. of Questions** 1

**Minimum Passing Marks** 01

Roll No.	Student Code	PRN NO.	Name of Student	Linked CO	CO Attainment					
					Max. Marks for Question	1	2	3	4	5
1	201ME10001	2010020000086001	MILTRAB TUSHAR MOHAM	ME225-21(B)-1	10	01	01	01	01	01
2	201ME10002	2010020000082616	SALUNHE PRATHAMESH NAGESH	ME225-21(B)-1	15	01	01	01	01	01
3	201ME10003	2010020000086631	SHANKH ARBET AJAY	ME225-21(B)-1	10	01	01	01	01	01
4	201ME10004	2010020000083883	SARANI SHREYASH SANTOSH	ME225-21(B)-1	15	01	01	01	01	01
5	201ME10005	2010020000083206	SHAIK ABHILASH TANUJI	ME225-21(B)-1	11	01	01	01	01	01
6	201ME10006	2010020000089611	SHIRUR AMIT DATTATRAY	ME225-21(B)-1	15	01	01	01	01	01
7	201ME10007	2010020000082794	SHIRUR VISHAL PRADIP	ME225-21(B)-1	11	01	01	01	01	01
8	201ME10008	2010020000086623	SARAVASE TUSHAR SUNIL	ME225-21(B)-1	14	01	01	01	01	01
9	201ME10009	2010020000083036	SALAKARIE RAHUL BHANUSI	ME225-21(B)-1	14	01	01	01	01	01
10	201ME10010	2010020000081765	SANKH ANIKET ANIL	ME225-21(B)-1	5	01	01	01	01	01
11	201ME10011	2010020000084602	SHIRUR VEDANT DIPAK	ME225-21(B)-1	10	01	01	01	01	01

## 8. Tool - Attainment

RWork		SVER'S COLLEGE OF ENGINEERING, PANDHARPUR						
Tool - Evaluation & Attainment								
THT-1 Marks								
Academic Year 2021-22		Program UNDERGRADUATE IN MECHANICAL ENGINEERING						
Degree Level UNDER GRADUATE		Department MECHANICAL ENGINEERING						
Class SECOND YEAR		Semester SEMESTER II						
Division A		Course POWER PLANT ENGINEERING (ME225-21(B))						
Total Maximum Marks 20		No. of Questions 4						
Date of Exam 07-06-2022		Minimum Passing Marks 08						
Target Level (% Target Marks for CO Attainment)								
40								
Sr. No.	Student Code	PSN NO.	Name of Student	Linked CO	ME225-21(B).1	ME225-21(B).2	ME225-21(B).3	ME225-21(B).4
1	20AME11001	302082200048201	MEERAN SUDHAR MOHAM	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5
2	20AME11002	302082200048208	SALUNKE PRATHAMESH MAHESH	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5
3	20AME11003	302082200048207	SHANKH ABRAZ ALIM	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5
4	20AME11004	302082200048303	SADAM ASHVEESH SANTOSH	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5
5	20AME11005	302082200048304	SHAILABHAI TANAJI	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5
6	20AME11006	302082200048311	MOHIT AMIT DATTATRAY	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5
7	20AME11007	302082200048376	SHANU VISHAL PRADIP	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5
8	20AME11008	302082200048323	SADASHRI TUSHAR SUNIL	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5
9	20AME11009	302082200048308	SALUNKE RAHUL BHARJOD	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5
10	20AME11010	302082200048385	SANU ANHET ANIL	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5
11	20AME11011	302082200048402	JONHAY VEDANT DIPAN	Max. Marks for Question	5	5	5	5
				Obt. No. / Total Marks	0/5	0/5	0/5	0/5

## 9. Tool - Evaluation

RWork		SVER'S COLLEGE OF ENGINEERING, PANDHARPUR					
Course CO Attainment							
Course CO Attainment							
Academic Year 2021-22		Program UNDERGRADUATE IN MECHANICAL ENGINEERING					
Degree Level UNDER GRADUATE		Department MECHANICAL ENGINEERING					
Class SECOND YEAR		Semester SEMESTER II					
Division A		Course POWER PLANT ENGINEERING (ME225-21(B))					
Tier*							
TIER II							
CO Attainment							
CO Attainment With Target							
Internal Tools							
Sr. No.	Tools	ME225-21(B).1	ME225-21(B).2	ME225-21(B).3	ME225-21(B).4	ME225-21(B).5	ME225-21(B).6
1	ESE-1	3	3	0	NA	NA	NA
2	DBT-1	3	3	3	NA	NA	NA
3	THT-1	3	3	3	NA	NA	NA
4	ESE-2	NA	NA	NA	3	3	NA
5	ASSIGNMENT	3	3	3	3	3	3
6	PPPE	3	3	3	3	3	3
7	LAB BOOK	3	3	3	3	3	NA
INTERNAL TOOL ATTAINMENT		3.00	3.00	2.50	3.00	3.00	3.00
Internal Tool Weightage (%)		20					

5	ASSIGNMENT	3	3	3	3	3	3	
6	PPPE	3	3	3	3	3	3	
7	LAB BOOK	3	3	3	3	3	NA	
INTERNAL TOOL ATTAINMENT		3.00	3.00	2.50	3.00	3.00	3.00	
Internal Tool Weightage (%)		20						
External Tools								
Sr. No.	Tools	ME225-21(B).1	ME225-21(B).2	ME225-21(B).3	ME225-21(B).4	ME225-21(B).5	ME225-21(B).6	
1	ESE	3	3	3	3	3	3	
EXTERNAL TOOL ATTAINMENT		3.00	3.00	3.00	3.00	3.00	3.00	
External Tool Weightage (%)		80						
Overall Course CO Attainment								
Sr. No.	Tool Type	ME225-21(B).1	ME225-21(B).2	ME225-21(B).3	ME225-21(B).4	ME225-21(B).5	ME225-21(B).6	Overall
1	Internal	3.00	3.00	2.50	3.00	3.00	3.00	2.92
2	External	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Overall		3.00	3.00	2.90	3.00	3.00	3.00	2.98

[Remove Weightage](#)
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# Use of Virtual Labs by Faculty Members


501

INTRODUCTION THEORY OBJECTIVE PROCEDURE SIMULATION QUIZZES REFERENCES

### Introduction

Mitsubishi Movemaster RM-501 is an entry level industrial robot with five rotational joints having five degree of freedoms. Forward kinematics refers to the use of the kinematic equations of a robot to compute the position of the end-effector from specified values for the joint parameters. The kinematics equations of the robot are used in robotics, computer games, and animation. The reverse process that computes the joint parameters that achieve a specified position of the end-effector is known as inverse kinematics.

The essential concept of forward kinematic animation is that the positions of particular parts of the model at a specified time are calculated from the position and orientation of the object, together with any information on the joints of an articulated model. So for example if the object to be animated is an arm with the shoulder remaining at a fixed location, the location of the tip of the thumb would be calculated from the angles of the shoulder, elbow, wrist, thumb and knuckle joints. Three of these joints (the shoulder, wrist and the base of the thumb) have more than one degree of freedom, all of which must be taken into account. If the model were an entire human figure, then the location of the shoulder would also have to be calculated from other properties of the model.



Activate Windows  
Go to Settings to activate Windows.

eerc03-iiith.vlabs.ac.in/exp/bernoullis/theory.html

Virtual Labs  
An MoE Govt of India Initiative

HOME PARTNERS CONTACT

## Bernoulli's

**Theory**

**Pretest**

**Procedure**

**Simulation**

**Observations**

**Posttest**

**References**

**Feedback**

The Bernoulli theorem is an approximate relation between pressure, velocity, and elevation, and is valid in regions of steady, incompressible flow where net frictional forces are negligible. The equation is obtained when the Euler's equation is integrated along the streamline for a constant density (incompressible) fluid. The constant of integration (called the Bernoulli's constant) varies from one streamline to another but remains constant along a streamline in steady, frictionless, incompressible flow. Despite its simplicity, it has been proven to be a very powerful tool for fluid mechanics.

Bernoulli's equation states that the "sum of the kinetic energy (velocity head), the pressure energy (static head) and Potential energy (elevation head) per unit weight of the fluid at any point remains constant" provided the flow is steady, irrotational, and frictionless and the fluid used is incompressible. This is however, on the assumption that energy is neither added to nor taken away by some external agency. The key approximation in the derivation of Bernoulli's equation is that viscous effects are negligibly small compared to inertial, gravitational, and pressure effects. We can write the theorem as

$$\text{Pressure head (} P \text{)} + \text{Velocity head (} \frac{V^2}{2g} \text{)} + \text{Elevation (} Z \text{)} = \text{a constant}$$

Where,  $P$  = the pressure (N/m<sup>2</sup>)  
 $\rho$  = density of the fluid, kg/m<sup>3</sup>  
 $V$  = velocity of flow, (m/s)  
 $g$  = acceleration due to gravity, m/s<sup>2</sup>

# Quiz solving by using platform like quizzes.com, Google form, etc.

The screenshot shows the Quizizz admin interface for a quiz titled "Simple Stress & Strain\_MOM/SOM". The user is Mr. Parkhe, with a basic account. The quiz is categorized under "University" and "Education", with a 54% accuracy and 3 plays. The interface includes options to create a live quiz, assign homework, or preview the quiz. A sidebar on the left offers navigation options like Explore, My library, Reports, Classes, and Settings. A top-right banner promotes upgrading to Super for exclusive themes. Below the quiz title, there are 15 questions, with the first one being a multiple-choice question: "The slope of the stress-strain curve in the elastic deformation region is \_\_\_\_\_". The answer choices are: a) Poisson's ratio, b) Plastic modulus, c) Elastic modulus, and d) None of the mentioned. The question is set for 30 seconds and worth 1 point.

The screenshot shows the Quizizz admin interface displaying a report for the quiz "Basics of Manufacturing Processes". The user is Pradnya Bhuse, with a basic account. The report shows the quiz was assigned on January 27th, 2021, at 2:11 PM (2 years ago). The report includes statistics: 55% Accuracy, 15 Questions, and 38 Participant Attempts. The interface offers options to view the quiz, flashcards, and share the report. A notification banner states: "All Quizizz reports will now use points. Promote mastery with a focus on learning. Learn more". Below the notification, a table lists the top performers:

Participant	Attempts	Accuracy	Score	Action
Prem Chavan (Prem ...)	2 attempts	100%	9900	Email to Parent
Jayant Potdar**	3 attempts	100%	9700	Email to Parent
Deshmukh Sagar So...	1 attempt	100%	9600	Email to Parent



MCQ Test-3 (Mechanics of Material)

Class: S. Y. B.Tech (MECH), Div- A & B, SEM-I, A.Y. 2021-22.

akparkhe@coe.sveri.ac.in [Switch account](#)

\* Required

Email \*

Your email

Name of Student (Surname - 1st Name - Middle Name) \*

Your answer

Division \*

A

B

MCQ TEST:1

CASTING PROCESSES

pkbhuse@coe.sveri.ac.in (not shared) [Switch account](#)

\* Required

Name \*

Your answer

ROLL NO. \*

Your answer

Div \*

A

B

1. In \_\_\_\_\_ process molten metal is used to produce the products. \* 1 point

b) Forming

c) Machining

d) Welding

a) Casting