



JAYAWANT SHIKSHAN PRASARAK MANDAL'S

# Bhivarabai Sawant Institute of Technology & Research

(Approved by AICTE New Delhi, DTE Mumbai & Affiliated to Savitribai Phule Pune University)  
Gat No. 719/1 & 2, Wagholi, Pune-Nagar Road, Pune-412207



**Prof. Dr. T. J. Sawant**  
B.E. (Elec.) PGDM, Ph.D  
Founder Secretary

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(DTE CODE: EN 6311, University Code: CEGP-013100)

**Dr. T.K. Nagaraj**  
ME. (civil Engg). Ph.D (civil Engg)  
LMISTE, LMIGS, LMIRC  
LMISRMTT, LMIE

Principal

**Institute Accredited by National Assessment and Accreditations Council (NAAC) and NBA accredited Programs: Information Technology, Electronics & Telecommunication Engineering, and Electrical Engineering**

### 3.2.2- Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

#### 3.2.2.1. Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

**Findings of DVV:** Provide detailed report for (Seminar on Embedded Systems. Guest Lecture on Gate Exam Preparation by Mr. Jeevan, ACE Academy. 5 Days Hands on Workshop On 'Java Technology' Hands on Workshop on ' Machine Learning' Hands on workshop on ' Business Analytics & intelligence' Seminar On “Design Thinking One Week National Level online Faculty Development Program on “Outcome Based Education through Student Centric Teaching- Learning Process" Faculty Development Programme On “Geometric dimensioning and Tolerances" ) with photograph with date and captions; title of the workshops / seminars conducted signed by competent authority.

**Clarification for findings of DVV:** detailed report of following workshops / seminars with photograph with date and captions are attached here with.

Department	Year	Name of the workshop/ seminar/ conference
Entc	2022-23	Seminar on Embedded Systems.
Entc	2022-23	Guest Lecture on Gate Exam Preparation by Mr.Jeevan, ACE Academy.
IT	2022-23	5 Days Hands on Workshop On 'Java Technology'
IT	2022-23	Hands on Workshop on ' Machine Learning'
IT	2022-23	Hands on workshop on ' Business Analytics & intelligence'
IT	2022-23	Seminar On “Design Thinking
FE	2022-23	One Week National Level online Faculty Development Program on"Outcome Based Education through Student Centric Teaching- Learning Process"
mech	2022-23	Faculty Development Programme On “Geometric dimensioning and Tolerances"



**Vision:** “To Satisfy the aspirations of youth force, who want to lead the nation towards prosperity through techno-economic development”

**Mission:** “To provide, nurture and maintain an environment of high academic excellence, research and entrepreneurship For all aspiring Students, which will prepare them to face global challenges maintaining high ethical and moral Standards”





**JSPM's Bhivarabai Sawant Institute of Technology & Research Wagholi,  
Pune, 412207**

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Accredited by NBA, New Delhi and NAAC, Bengaluru

**STUDENTS' CLUB UNDER THE SCHEME Promoting Interests, Creativity and Ethics among  
Students (SPICES)**

**AY-2022-23**



**BSIOTR MANTHAN Organizes A Seminar on "Embedded Systems" Sponsored by IETE Pune  
In Association with IETE students forum (ISF BSIOTR)**

**Date : 16th May , 2023**

**Spokesperson: Mr. Shubham Sharma**

**(Branch Manager Sofcon India Pvt.Ltd.Pune)**

**Time : 11:30 AM**

**Venue: Class Room 214**



**Date: 16<sup>th</sup> May, 2023**

**Report on  
Seminar on "Embedded Systems" organized by  
BSIOTR MANTHAN Club Students**

<b>Name of Event</b>	<b>Seminar on "Embedded Systems"</b>
<b>Organized Under</b>	AICTE SPICES BSIOTR MATHAN Students' Club
<b>Date of Event</b>	16 <sup>th</sup> May, 2023
<b>Location of Event</b>	D2 building , Class 214
<b>Number of Persons Attending</b>	75
<b>Sponsoring Organization(s)</b>	All India Council for Technical Education (AICTE), New Delhi and IETE students chapter (BSIOTR ISF) Pune
<b>Program Director Name</b>	Dr. T.K Nagaraj
<b>Program Co-Coordinator Name</b>	Dr. Y.S. Angal
<b>Technical Team Lead Name</b>	Mr. Mahesh Waghmode TE(E&TC)
<b>Name of the resource person</b>	Mr. Shubham Sharma

**1. Objective of the seminar:**

<b>Sr no.</b>	<b>Industrial visit Objectives</b>	<b>Corresponding outcomes COs /POs mapping</b>
1)	To know theories, they learn in the classroom being applied in real-life settings.	PO1, PO5, PO9, PO11, PO12 , PO2 , PO3
2)	To enhance their skills-set in the area of their expertise	PO1, PO5, PO9, PO12
3)	To acquire and apply fundamental principles of science and engineering.	PO1, PO6, PO8



## 2. **Brief Information about company:**

Sofcon is well established Automation company located in Pune, it provides trained engineers for production, maintenance, designing, programming and project base profile to different manufacturing, automation, embedded, Mechanical, Solar and engineering facilities across the country

## 3. **Content delivered / discussed in "Seminar on Embedded Processors" :**

JSPM's Bhivarabai Sawant Institute of Technology and Research, Wagholi (VC Room) had organized a "Seminar on "Embedded Systems" on 16<sup>th</sup> May, 2023. The expert person Mr. Shubham Sharma( Branch manager Sofcon Pune) conducted the seminar on behalf of Sofcon India Pvt. Ltd. Pune.

The seminar was carried out at Bhivarabai Sawant Institute of Technology and Research, Pune on 16<sup>th</sup> May, 2023, 2023 for Semester VI and VIII Electronics and Telecommunication Engineering Students. Head of the department and MANTHAN Club program Coordinator Dr. Y.S.Angal, Prof. Meenakshi Annamalai, Prof. Sneha Dhere, Prof. Poonam Gawde, Prof. Manoj Sonawane and Prof. Aniket Gunjal, Prof. Nilesh Mohota, Dr. A.L. Wanare along with 48 students were present for the event.

Students of MANTHAN CLUB observed various Electronic components like ARDUINO, Raspberry Pie, Microcontroller, various sensors, motors, PCB and types, various input output components like Fan, LEDS, Buzzers, project models, IOT devices, expert Mr. Shubham Sharma,(Branch Manager Sofcon India Pvt.Ltd., Pune) explained some real life projects using different microcontrollers. Different simulations were explained. Expert explained about the challenges needed in industry for a successful embedded engineer.

## 4. **Summary of the Seminar :**

- Students got familiar with hardware technologies like Arduino, Raspberry Pie, Microcontroller etc.
- Students got to know the working of many input and output components like Fan, LEDS, Buzzers, IOT devices.
- Students experienced LIVE working of many input and output components on PCB board.
- Simulation of devices with working was explained to the students.



**JSPM'S**  
**BHIVABAI SAWANT INSTITUTE OF**  
**TECHNOLOGY & RESEARCH , WAGHOLI ,**  
**PUNE - 412207**  
 (ACCREDITED BY NAAC AND NBA)



**JSPM'S BSIOTR MANTHAN CLUB**  
 in association with  
**IETE Student's Forum BSIOTR (ISF - BSIOTR)**

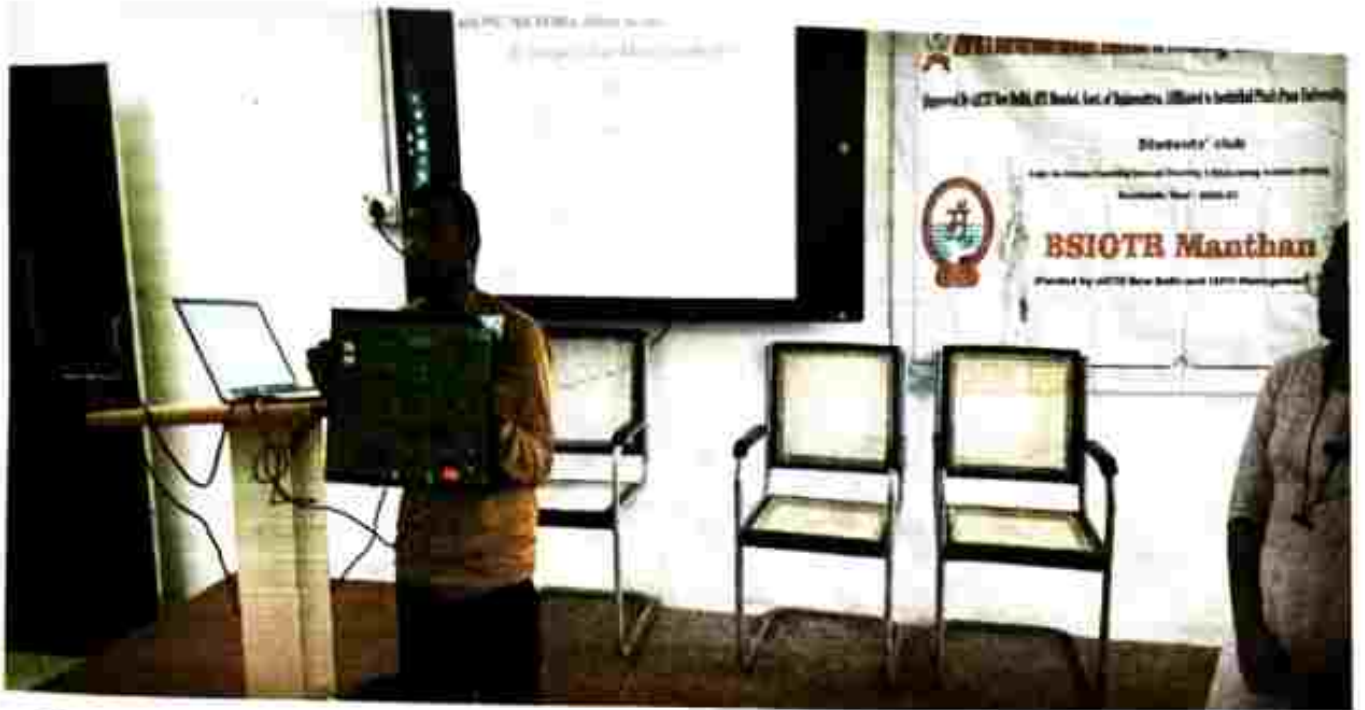
**organizes**  
**Workshop**  
**on Embedded System**  
**- By Sofcon India Pvt Ltd**  
**Pune**

**Date : 16th May, 2023**  
**Time : 11: 30 AM**  
**Venue : Room 214**



**Mr. Shubham Sharma**  
 Branch Manager

Flyer of the Seminar on "Embedded Systems" organized by IETE student's chapter (BSIOTR ISF) Pune



**Photo 1: Mr. Shubham Sharma displaying Embedded Systems- interfacing microcontroller board**



**Photo 2: Real time components demonstration by Mr. Shubham Sharma (Safcon Pune)**







**Photo 3 & 4 : Mr. Shubham Sharma( Safcon India Pvt. Ltd. Pune), Dr. Y.S.Angal, Dr. A.L.Wanare, Prof. S. D. Dhere, Prof. P. V. Gawade, Prof. M. S. Sonawane, Prof. Nilesh Mohota with students of TE and BE E&TC**



**Photo 5 : Mr. Shubham Sharma( Safcon India Pvt. Ltd. Pune), Dr. Y.S.Angal, Dr. A.L.Wanare, Prof. S. D. Dhere, Prof. P. V. Gawade, Prof. M. S. Sonawane, Prof. Nilesh Mohota with IETE student co-ordinator Abhijeet Chaudhary and TE and BE E&TC students.**



**OUTCOME:**

Sr.no	Outcome
1.	Improved critical thinking skills
2.	Increased student retention of information learned
3.	Improved listening note-taking skills and increased self-confidence
4.	Enhanced teamwork skills and collaboration
5.	More confidence to stand up for the truth when a discussion is promoting falsehoods or inaccuracies
6.	Learning better ways to state one's point with gentleness graciously
7.	Helping students identify holes in their theories and concocting more balanced arguments
8.	Helping students better structure their thoughts

Scheme	Coordinators name
Coordinators	
Lead	Mr. Ashutosh Falgaonker TE(IT)
Lead	Miss. Chaitra Deshpande TE(E&TC)

Technical Committee	Members Name
Club Coordinator	Mr. Mahesh Waghmode TE(E&TC)
Executive Member	Mr. Bhargavi Joshi TE(E&TC)
Executive Member	Mr. Ujef Shaikh TE(E&TC)

This Event was organized by BSIOTR MANTHAN Students' Club and Technical Committee of BSIOTR MANTHAN Students' club.

Report Prepared by.		
Mr. Aekagra Dhamani	TE(E&TC)	JSPM <sup>®</sup> BSIOTR

  
Mr. Mahesh N. Waghmode  
TE(E&TC)  
Technical Team Student  
Lead

  
Miss. Chaitra Deshpande  
TE(E&TC)  
Student Coordinator  
MANTHAN Club

  
Mr. Ashutosh Falgavkar  
TE(E&TC)  
Student Coordinator  
MANTHAN Club

  
Dr. Y. S. Angal

HOD, E & TC  
(Program Co-ordinator)

  
Dr. T.K. Nagaraj

PRINCIPAL  
PRINCIPAL Institute of  
P.M.'S Shri...  
festivity...  
Waghmode, Pune-412207  
(BSIOTR)



Date: 16<sup>th</sup> May, 2023

Seminar on "Embedded Systems"

Attendance

Sr No.	Roll No.	Name	Class	Department	Category	Sign
1.	40	Prathmesh Nemode	SE	CS	open	<u>Prathmesh</u>
2.	13	Abhishek stavan	SE	CS	open	<u>Abhi</u>
3.	43	Pranav Prajapati	SE	CS	open	<u>Pranav</u>
4.	3209	Chaitra Deshpande	TC	ENTC	open	<u>Chaitra</u>
5.	3204	Aarun Thakur	T.F	ENTR	OBC	<u>Aarun</u>
6.	20	Gauri Wankhade	TE	CS	open	<u>Gauri</u>
7.	3015	Nikita Munu	TRE	ENTR	OBC	<u>Nikita</u>
8.	3213	Nishwarya Gale	TE	ENTC	open	<u>Aish</u>
9.	3208	Anushilke Borde	TE	ENTR	OBC	<u>Anushilke</u>
10.	49	Adnan Shaikh	SE	CS	open	<u>Adnan</u>
11.	3215	Meghsham Jade	TC	ENTC	OAC	<u>Meghsham</u>
12.	2168	Aryen Verma	JIE	IT	OBC	<u>Aryen</u>
13.	4166	Kunal ugate	BE	electrical	open	<u>Kunal</u>
14.	3202	Aekagra Dhamai	TE	ENTC	open	<u>Aekagra</u>
15.	2022	Kale Sanket	SE	IT	OENE	<u>Sanket</u>
16.	50	Kamble Ravindra	TE	CS	OBC	<u>Ravindra</u>
17.	49	Adnan Balaikh	TRE	C.S	OBC	<u>Adnan</u>
18.	3224	Abhay Mane	TC	ENTC	Open	<u>Abhay</u>
19.	44	Prath Vilas	TE	CS	open	<u>Vilas</u>
20.	2103	Karande Meghraj	S.E	IT	OBC	<u>Karande</u>
21.	3212	Sheetal Gat	TC	ENTC	OBC	<u>Sheetal</u>
22.	2102	Chetan Bahule	S.E	IT	OPEN	<u>Chetan</u>
23.	58	Thore Ganesh	SE	CS	open	<u>Ganesh</u>
24.	2018	Rohan Zil	S.E	IT	OBC	<u>Rohan</u>
25.	3235	Kishori Randive	TE	ENTC	Open	<u>Kishori</u>
26.	2135	Rashi Nagar	S.E	EET	OBC	<u>Rashi</u>
27.	18	Dhokchaule Tejas	SE	CS	OBC	<u>Tejas</u>
28.	5119	Tejash Deshmukh	T.C	IT	OBC	<u>Tejash</u>
29.						



	ES	Koishna Naoode	TE	CS	open	Koishna
	2235	Nikhant Pawar	SE	ENTC	OBC	Nikhant
2.	2151	ROHAN RAMANDE	TE	C.S	OBC	<del>ROHAN</del>
33.	56	Gaurav Ambekar	TE	CS	open	Gaurav
34.	3044	Chetan Pawar	TE	ENR	MT	Chetan
35.	3026	Rutuja Mane	TE	ENTC	open	Rutuja
36.	2111	Kunjal Nohan	SE	IT	OPEN	Kunjal
37.	29	Shubham Nile	TE	CS	open	Shubham
38.	3001	Adnan Sakale	TE	ENR	OBC	Adnan
39.	2211	Piyush Chauhan	SE	ENTC	OBC	Piyush
40.	3201	Ashish Doober	TE	IT	OBC	Ashish
41.	56	Shelar Rutik	TE	CS	OBC	Rutik
42.	3235	Kishori Ruidhe	BE	ENTC	open	Kishori
43.	09	Pranali Patil	TE	mech	open	Pranali
44.	2231	Tushar Manjare	SE	ENTC	open	Tushar
45.	22	Bayrang Patole	TE	mech	open	Bayrang
46.	01	Achay Goytri	TE	CS	open	Achay
47.	13	Sanket Kodlinge	TE	mech	SC	Sanket
48.	01	Abhishek Bawalkar	TE	mech	open	Abhishek
49.	07	Makrand Dharmde	TE	mech	open	Makrand
50.	1303	Alok Singh	BE	CS	OBC	Alok
51.	15	Kunal Supriya	TE	mech	SC	Kunal
52.	25	Shobani Pawar	TE	mech	open	Shobani
53.	41	Patil Shreyas	SE	CS	open	Patil
54.	04	Gagan Patil	TE	mech	open	Gagan
55.	3238	Jaykanti Salunkhe	TE	ENTC	open	Jaykanti
56.	08	Dinesh Dandekar	TE	mech	open	Dinesh
57.	10	Ahavan Sausabh	TE	mech	open	Ahavan
58.	46	Panjar Aditya	SE	CS	open	Panjar
59.	09	Mouhit Datar	TE	mech	open	Mouhit
60.	16	Kumbhar Sanjay	TE	mech	open	Kumbhar
61.	03	Balaji Pawar	TE	mech	open	Balaji
62.	86	Wahunj Prasad	TE	mech	open	Wahunj
63.	1102	Bhushan Ahire	SE	CS	open	Bhushan
64.	28	Saqas Mahadev	TE	mech	SC	Saqas
65.	84	Jawate Ramchad	TE	mech	OBC	Jawate
66.	3254	Rajvandini T	TE	ENTC	OBC	Rajvandini
67.	05	Talwar Kartika	TE	mech	SC	Talwar
68.	27	Smit Sarda	TE	mech	open	Smit
69.	46	Shubham Raut	SE	CS	Open	Shubham
70.	35	Ketki Mhasare	SE	mech	open	Ketki
71.	01	Ashw Setael	TE	mech	open	Ashw
72.	3230	Kunal Narwade	TE	ENTC	open	Kunal
73.	11	Hire Taru		mech	SC	Hire
74.	24	Pawde Krishna		mech	OBC	Pawde
75.	3256	Mahesh Waghmode	TE	ENTC	OBC	Mahesh





Date: 5/11/2022

## Department of Electronics & Telecommunication

### Report of Guest Lecture on Placement and Higher Studies Opportunities through GATE and other Competitive Exams

Objective	Placement and higher studies opportunities through GATE and other competitive exam.
Date of Conduction	5 / 11/ 2022
Resource Person	Mr. Paresh Gugale, Trainer, Imperial Institute of Excellence.
Coordinator	Dr. Y. S. Angal / Prof. N. A. Mohota
Participants	SE-48, TE-56
Venue	E&TC Dept. (203)
Outcome	Students have got the knowledge: <ol style="list-style-type: none"><li>1) About the paper pattern and syllabus of GATE exam.</li><li>2) Placement opportunities after GATE.</li><li>3) Opportunities after successful GATE score for higher studies.</li><li>4) About stipend in India and Abroad for higher education and general awareness.</li><li>5) About different competitive exams.</li></ol>

A guest lecture was arranged on "Placement and higher studies opportunities through GATE and other competitive exam", by Imperial Institute of Excellence for the students of SE and TE, for which the speaker was Mr. Paresh Gugale all India rank 21 in 3<sup>rd</sup> year and 191 in 4<sup>th</sup> year. The session started with the introductory and welcome speech by Dr. Y. S. Angal, Head of Department.





The session started with different opportunities students have after the completion of their graduation like jobs in core field, IT sector, Telecommunication sector, VLSI etc. or pursuing higher education like MS, GATE, MBA etc. The speaker emphasized on the topic of GATE and career opportunities after it. He explained the students that the GATE examination is held twice in a year and the score is valid for three years. Further he had given the performance analysis of the score for the different branches and explained how to prepare for the same. Further he stated that that 75% of the questions based on concepts are repeated. He also explained that some of the foreign universities are also accepting GATE score for further education with stipend. He had also given the value of the stipend one can get for his further education or for doing projects after pursuing



GATE and also briefed the students on how to prepare for other competitive exams. Lastly he concluded with the job opportunities in different sectors like Private, PSU, IES. Prof. Suchipriya Malage coordinated the event and concluded with vote of thanks.

Prof. N. A. Mohota  
TPC

Dr. Y. S. Angal  
HoD

Dr. T. K. Naganaj  
**PRINCIPAL**  
JSPM's Bhivarabai Sawant Institute of  
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Wagholi, Pune- 412 207





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LMISFF, LMIGS, LMIRC  
LMISRMFT, LMIE  
Principal

## Department of Electronics and Telecommunication SE(2022-23)

Guest Lecture: Awareness of GATE For Higher Studeis Date:5-11-2022

Roll no	Name of student	Mobile no	Sign
2201	Bagwan mubeen Sameer	9614351111	<i>[Signature]</i>
2202	GAIKWAD PRASAD SANTOSH	9606957777	<i>[Signature]</i>
2203	RODE ABHIRAJ PRAVIN	9284215842	<i>[Signature]</i>
2204	ADHAV ARYA SHIVAJI	8080191183	<i>[Signature]</i>
2205	AJAY SUNIL KASABE	9022490427	<i>[Signature]</i>
2206	ANDHARE PRIYA VINAYAK	7090251699	<i>[Signature]</i>
2207	ANKUSHE MAHESH RAJENDRA	8898061550	<i>[Signature]</i>
2208	AUTI SOHAM RAMDAS	9970549874	<i>[Signature]</i>
2209	BANDE RUSHIKESH LAXMAN	9689325323	<i>[Signature]</i>
2210	BHOSALE SHAMBHURANJE SANTOSH	907852340	<i>[Signature]</i>
2211	CHAVAN PIYUSH KAUTIK	-	-
2212	CHAVAN RAVIRAJ ANANDRAO	-	-
2213	CHAVARE ATHARV UMESH	7226565408	<i>[Signature]</i>
2214	CHOURE PRANITA BHAUSAHEB	-	-
2215	CIRVI UMESH MOHANLAL	9307837888	<i>[Signature]</i>
2216	DHALPE ATHARV VIJAYKUMAR	9577689000	<i>[Signature]</i>
2217	DHULGANDE KIRAN SURYAKANT	-	-
2218	GAVANDI UDDHAV SANJAY	8975019216	<i>[Signature]</i>
2219	GHULE SANKET ARUN	9665133659	<i>[Signature]</i>
2220	GUND SANDESH SANTOSH	-	-
2221	HOLKAR MANSI MUKUND	-	-
2222	JADHAV SITARAM SUBHASH	960797092	<i>[Signature]</i>
2223	JADHAWAR ASHUTOSH RAMESH	-	-
2224	KADAM ADITYA MANOHAR	721924484	<i>[Signature]</i>
2225	KADAM KUNAL ASHISH	7776006817	<i>[Signature]</i>
2226	KAKADE PRANITEE ARJUN	-	-
2227	KARLE KAMLESH RAJENDRA	7057058612	<i>[Signature]</i>
2228	KATE CHANDRASHEKHAR BHAUSAHEB	-	-
2229	KUMBHAR AKSHAY VIJAY	7263088461	<i>[Signature]</i>
2230	MORE ANURAG CHAURANG	7020760501	<i>[Signature]</i>
2231	MOURYA TUSHAR ANIL	9112290123	<i>[Signature]</i>
2232	NAIR ANJALI RAJAN	921884199	<i>[Signature]</i>
2233	NARWADE RITESH SANTOSH	7083277211	<i>[Signature]</i>
2234	NIKAM VISHAKHA SUDHAKAR	966497460	<i>[Signature]</i>



2235	NISHANT S PAWAR		
2236	PATIL RUSHIKESH VISHNU	7219794390	<del>Patil</del>
2237	PATIL SIDDHANT SOMNATH		<del>Patil</del>
2238	PATIL VAIBHAV RAJENDRA		<del>Patil</del>
2239	PESHAVE MADHURA SANJAY		<del>Patil</del>
2240	PHAD GAYTRI HARIBHAU		<del>Patil</del>
2241	PRANITA JALINDAR GADHAVE		
2242	RAMBHAD RUSHITA YOGESH	<del>Patil</del>	<del>Patil</del>
2243	RASAL KARTIKI SACHIN		
2244	RASAL UDAY SHARAD	<del>Patil</del>	<del>Patil</del>
2245	RODE ASHWINI TANAJI	<del>Patil</del>	<del>Patil</del>
2246	ROKADE SAKSHI ANIL	<del>Patil</del>	<del>Patil</del>
2247	ROLE ROHIT BHIMRAO	9322083651	<del>Patil</del>
2248	SALEGAONKAR ANAND GOPALRAO	9527535936	<del>Patil</del>
2249	SALUNKE GANESH SHIVAJI		
2250	SARULE ASHISH DEVICHAND		
2251	SAYYED MUSKAN RASULSAB		
2252	SHARDUL NIKITA NITIN	<del>Patil</del>	<del>Patil</del>
2253	SHETE RUTUJA RATAN	8767278	<del>Patil</del>
2254	SHINDE SUSHANT RAJENDRA		
2255	SHITOLE SHIVANI MINANATH	<del>Patil</del>	<del>Patil</del>
2256	SONAWANE SHALAKA SUNIL	<del>Patil</del>	<del>Patil</del>
2257	SOPANE DNYANESHWARI SAHEBRAO		
2258	TALE PRATIK SUBHASHRAO	<del>Patil</del>	<del>Patil</del>
2259	THAKARE SANDESH SHANKAR		
2260	UBALE KUBER ANIL		
2261	WALKIKAR SANIYA DINESH	<del>Patil</del>	<del>Patil</del>
2262	YENGE ANTESHWAR NAMDEV	8006030256	<del>Patil</del>
2263	KULKARNI PARJANYA PRAVIN	992291790	<del>Patil</del>
2264	PAWAR SAMRUDDHI PRAKASH	<del>Patil</del>	<del>Patil</del>
2265	ADHAU ABHISHEK VINOD	826203726	<del>Patil</del>
2266	SINGH SUNDARAM BRAJESH		
2267	THAKUR ASHUTOSH RAM	<del>Patil</del>	<del>Patil</del>
2268	WAHUL DIPAK GANESH		
2269	PATHARKAR YOGESH PRAKASH		

*Parash S. Bhandari*  
*Patil*

*Patil*  
5/11/2022  
H.O.D.  
Electronics & Telecommunication Dep.  
Bhivarabai Sawant Institute of  
Technology & Research  
Wagholi, Pune- 412 207



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[EN 6311 / CEGP-013100]

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Founder Secretary

Dr. T.K. Nagaraj  
ME. (Civil Engg), Ph.D (Civil Engg)  
LMISTE, LMIGS, LMIRC  
LMISRMTT, LMIE  
Principal

## Department of Electronics and Telecommunication

TE(2022-23)

Guest Lecture: Awareness of GATE For Higher Studeis Date:5-11-2022

Roll no	Name of student	Sign
3201	AADHAV SAKET DATTATARY	
3202	AEKAGRA DHAMANI	
3203	ATTAR NAMEERA MOHOMAD RAFIK	
3204	BHOITE ABHIJIT SHAHAJI	
3205	BORHADE SHIVAM PANDURANG	
3206	BORSE ANSHULIKA YUVRAJ	
3207	DAHIWAL AJINKYA SUNIL	
3208	DAPHAL CHETAN SHAHAJI	
3209	DESHPANDE CHAITRA	
3210	DHAKE TILAKCHAND UMAKANT	
3211	GARDARE KIRAN GANESH	
3212	GAT SHEETAL BABAJI	
3213	GOLE AISHWARYA SUHAS	
3214	HARGUDE AISHWARYA ANIL	
3215	JADE MEGHSHAM SANJAY	
3216	JAGTAP AJAY SHESHERAO	
3217	JOSHI BHARGAVI DINESH	
3218	KEKAN PRAJAKTA PANDURANG	
3219	KHARATE SATYAM MACHINDRA	
3220	KOLI PRADEEP DEEPAK	
3221	KUWAR SAKSHI JAYESH	
3222	LAGAD PRATIK DHONDIBA	
3223	LANKE ADITYA SANJAY	
3224	MANE ABHAY SUDHAKAR	

Department of Electronics and Telecommunication  
Bhivarabai Sawant Institute of Technology & Research  
Wagholi, Pune-412207



3225	MANE NIKITA NILESH	<del>Mane</del>
3226	MANE RUTUJA KAILAS	<del>Rutuja</del>
3227	MATKAR AMAR CHATRA BHUJ	<del>Amar</del>
3228	MULANI MUSTKIN MAHIBUB	<del>Mulani</del>
3229	NARUTE HARSHAD DHANAJI	<del>Narute</del>
3230	NARWADE KUNAL DILIP	Kunal N
3231	PATIL PRIYANKA BAPURAO	Priyanka
3232	PATIL VISHWATEJ DATTATRAYA	Vishwatej
3233	PATIL VYANKATESH KAMLESH	Vyankatesh
3234	PETKAR SAYALI DHANRAJ	<del>Petkar</del>
3235	RANDIVE KISHORI RAMDAS	<del>Randive</del>
3236	RAUT DNYANESHWARI SHIVSHANKAR	Raut
3237	SAKHARE SWAPNIL TANAJI	Swapnil
3238	SALUNKHE JANHAVI SUBHASH	J. Salunkhe
3239	SAWARGAVE RAJNANDINI DIPAK	Rajnandini
3240	SHAIKH PARVEJ YASIN	Shaikh
3241	SHAIKH UJEF SAMAD	<del>Ujef</del>
3242	SHELKE VAIBHAV TUKARAM	<del>Shelke</del>
3243	SHINDE ABHAY PRAMOD	Abhay
3244	SHUBHAM ASHOK PAWAR	<del>Shubham</del>
3245	SONAVANE AMRUTA ASHOK	
3246	SONAWANE KALPESH YUVRAJ	
3247	TAMBE EKTA DINESH	<del>Tambe</del>
3248	TAMHANE VAISHNAVI VINOD	Vaishnavi
3249	TAYADE DEVENDRA AJAY	<del>Tayade</del>
3250	TAYE PRATIK RAMESH	Pratik
3251	TENGALE ADESH LAXMAN	Tengale
3252	THAKARE VAISHNAVI JAGADEO	
3253	THAKUR GAURAV RAM	Gaurav
3254	TUPSOUNDARE RAJNANDINI RAJKUMAR	Rajnandini
3255	VADAK KOMAL VIJENDRA	Komal
3256	WAGHMODE MAHESH NAMDEV	
3257	SHARADHHA BADE	<del>Sharadhha</del>
3258	FIGREDO ISPURLEEN PETER	IPF

3259	ATHARVA JAIRAJ KADAM	
3260	PATIL YUVRAJ RAJARAM	
3261	SONTAKKE DIVYA DNYANESHWAR	<i>Divya</i>
3262	TAKLE ASHLESHA BASVRAJ	
3263	KAND SIDDHI VIKAS	<i>S.V.Kand</i>
3264	KAND AKANSHA RAMDAS	<i>Akanesh</i>
3265	TAKLE ANJLI BASVRAJ	
3266	SHAIKH ARMAN SAMEER	<i>Arman</i>
3267	SHAMKUWAR RAHUL RAJENDRA	
3268	SUPRIYA SUNIL MOHITE	
3269	SHITAL SANJAY RAVLE	
3270	CHAVHAN DNYANESHWAR SHARAD	
3271	GADEKAR JAYAWANT BHIMRAO	<i>Jayant</i>
3272	KHATAVAKAR PRIYANKA NAGNATH	
3273	LONDHE ANKITA DATTATRAY	
3274	SAWANT SNEHA BALASO	
3275	LONDHE PRUTHVIRAJ SURESH	<i>Psc</i>
3276	BHOSALE RUSHIKESH ARUN	<i>Rushikesh</i>
3277	GAWALI SHUBHAM SUNIL	
3278	PATOLE SHUBHAM	

*Page 6*

*Shubham*  
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 Technology & Research  
 Wagholi, Pune- 412 207

*Shubham*  
 5/11/2020  
 I.O.D.  
 Electronics & Telecommunication Dep.  
 Bhivarabai Sawant Institute of  
 Technology & Research  
 Wagholi, Pune- 412 207





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technology and research wagholi pune



**Department of Information technology**

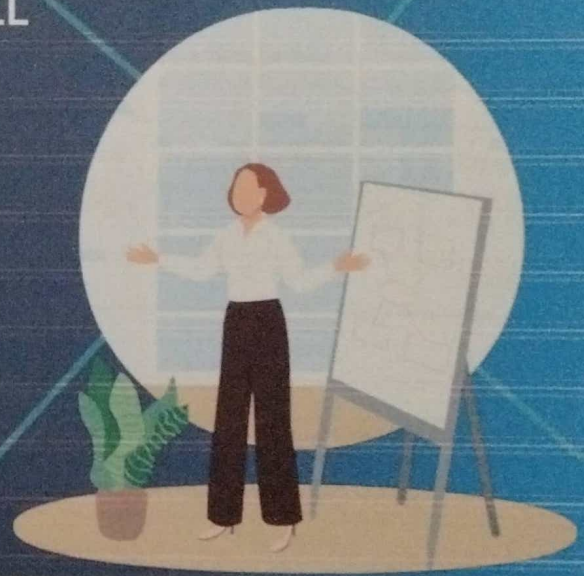
# 5 DAYS WORKSHOP ON JAVA

- ▶ FROM 19/09/2022 TO 23/09/2022
- ▶ VENUE: IT SEMINAR HALL

## RESOURCES PERSON

**VAIBHAV ZODGE**

Sr. software engineer  
Hematite Infotech Pvt.ltd.







JAYAWANT SHIKSHAN PRASARAK MANDAL'S  
**Bhivarabai Sawant Institute of Technology & Research**

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EN 6311 / CEGP-013100



**Dr. T.K. Nagaraj**

ME. (Civil Engg), Ph.D (Civil Engg)

LMISTE, LMIGS, LMIRC

LMISRMTT, LMIE

Principal

**Prof. Dr. T. J. Sawant**  
B.E. (Elec.) PGDM, Ph.D  
Founder Secretary

Date:-24/04/2022

**5 Days Hands on Workshop on "JAVA TECHNOLOGY"**  
**Event Report**

Name of the Event	5 Days Hands on Workshop on "JAVA TECHNOLOGY"
Day and Date of Event	19/09/2022- 23/09/22
Time of Event	9.30 am - 4.00 pm
Venue of the event	Linux Lab -IT Department
Number of Participant	69

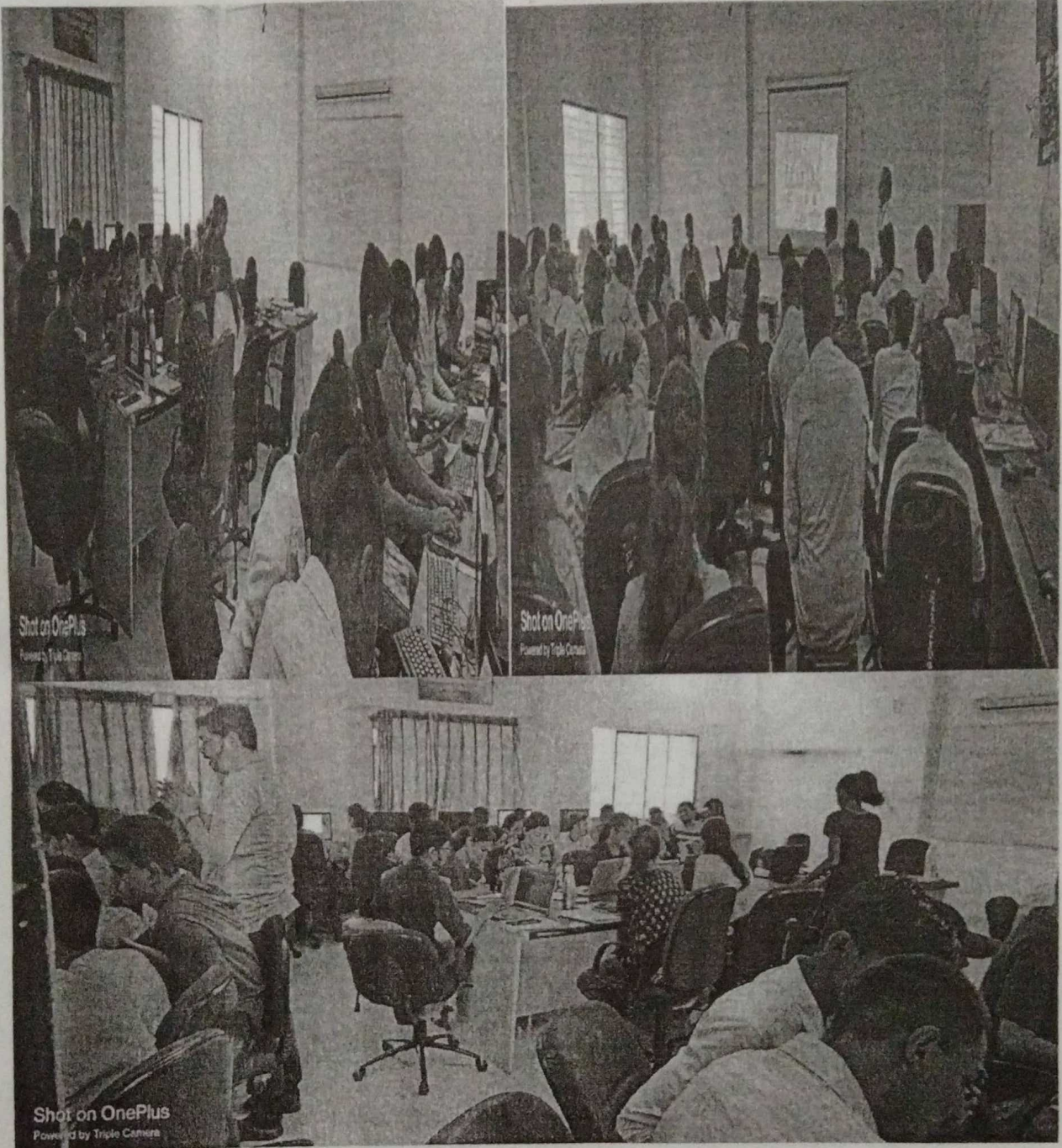
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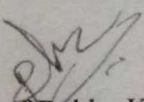
The workshop on Java technology is conducted for 5 days. The topics which are covered during the session are mentioned below:



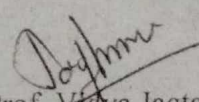
19/09/2022	Monday	9:30 am to 12:30 pm & 1:00 pm to 4:00 pm	Installation of Eclipse on Open source operating system. Introduction to Procedure oriented programming. Why there is need of object oriented programming. Basic Java programs on Windows. How to write and run the java program in Ubuntu. Basic concepts of OOP.
20/09/2022	Tuesday	9:30 am to 12:30 pm & 1:00 pm to 4:00 pm	How to implement class. Creating objects. Implementing programs to demonstrate arithmetic operations in JAVA. Fundamental concepts used in Object oriented programming. How to achieve the abstraction in JAVA. Creating abstract classes.
21/09/2022	Wednesday	9:30 am to 12:30 pm & 1:00 pm to 4:00 pm	What is Inheritance. Types of inheritance.- single, multilevel, Hierarchical inheritance. How to implement inheritance in JAVA. Difference between inheritance & interfaces. Implementing interfaces in Java.
22/09/2022	Thursday	9:30 am to 12:30 pm & 1:00 pm to 4:00 pm	Exceptions in java. How to handling exceptions in Java using try catch mechanism. Constructors in java & C++. How to implement constructor. Constructor overloading in java. What is polymorphism? How to achieve polymorphism in java. Types of polymorphism – compile time polymorphism & run time polymorphism.
23/09/2022	Friday	9:30 am to 12:30 pm & 1:00 pm to 4:00 pm	File Handling: Introduction, Concepts of Stream, Stream Classes, Byte Stream Classes, Character Stream, Classes, Using Stream, and Other Useful I/O Classes, Using the File Class, Input/output Exceptions, Creation of Files, Reading/Writing Character, Reading/Writing Bytes, Handling Primitive Data Types, Concatenating and Buffering Files, Random Access Files. Design Patterns: Introduction, Types of Design Patterns, Adapter, Singleton, Iterato



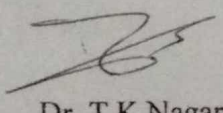


  
Prof. Rekha Kotwal

[Seminar Coordinator]

  
Prof. Vidya Jagtap

[HOD IT Dept]

  
Dr. T.K. Nagaraj

[Principal]





JSPM'S BSIOTR WAGHOLI PUNE  
DEPARTMENT OF  
INFORMATION TECHNOLOGY



ORGANIZING

5 DAYS HANDS ON WORKSHOP ON,  
"MACHINE LEARNING"

EXPERT

MR. PARAG JOSHI  
SENIOR  
SOFTWARE DEVELOPER  
HEMETITE INFOTECH PVT. LTD

FROM DATE : 11/10/2022

TO

15/10/2022

TIME: 9.00AM TO 4.00PM

VENUE : LINUX LAB IT DEPARTMENT

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## Bhivarabai Sawant Institute Of Technology & Research

(Approved by AICTE, New Delhi, Govt.Of Maha.&Affiliated to UoP)

Gat No.720(1),Wagholi, PUNE-NAGAR ROAD,PUNE-412207

Tel No.(020)27051170 Fax.No.(020)2705259.

DR.T.J.SAWANT

DR.T.K.NAGARAJ

FOUNDER SECRETARY

PRINCIPAL

Date: 11/10/2022

### Machine Learning Workshop Report

#### Event Report

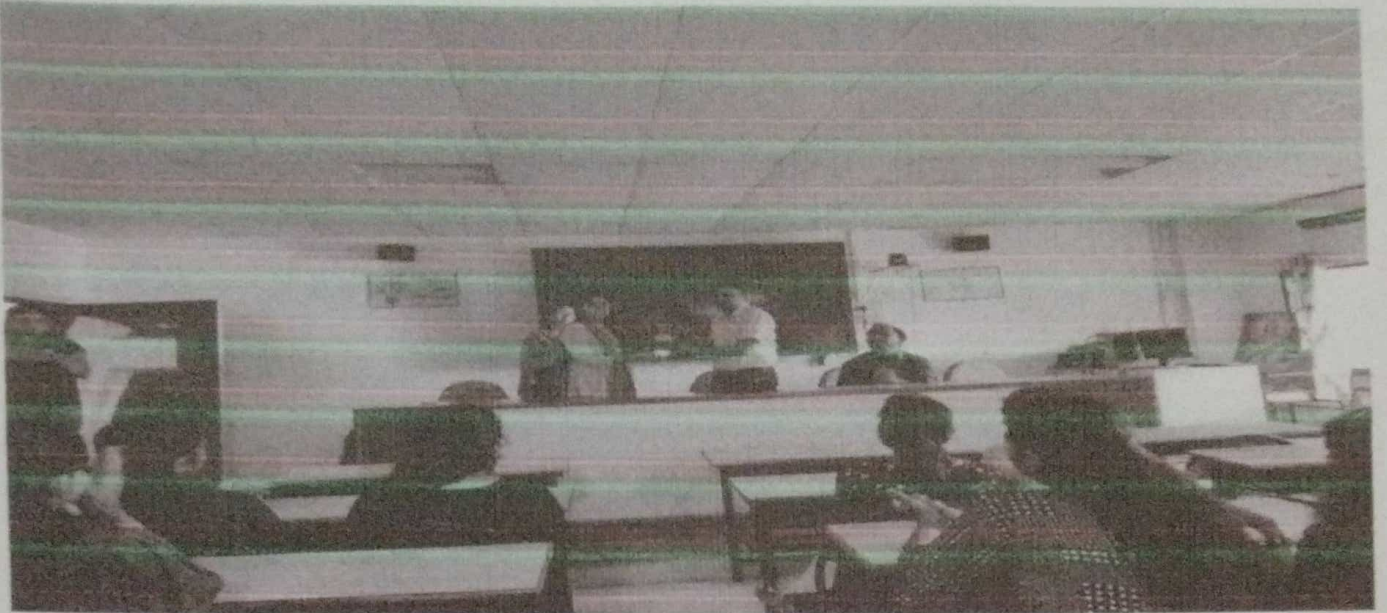
1.	Name Of The Event	Workshop On Machine Learning Workshop
2.	Day & Date Of The Event	Tuesday 11 <sup>th</sup> Oct 2022 to Saturday 13 <sup>th</sup> Oct 2022
3.	Time Of The Event	9.00 A.M. to 4.00 P.M.
4.	Venue Of the Event	IT Department, JSPM's BSIOTR, Room No.307

#### 5. Description:-

JSPM's BSIOTR , IT Department organized Three days' workshop on "**Machine Learning Workshop**" held on 11<sup>th</sup> Oct to 13<sup>th</sup> Oct 2022. The resource people was Mr.Kiran Tiwari, Sr. Software Developer, Hematite InfoTech OPC Pvt. Ltd., Pune. The chief guest of inaugural function Prof.Vidya Jagtap HOD IT Dept, Prof.Rekha Kotwal Assistant Professor.

The workshop was organized by Prof. Pranita S. Inagle ,Prof. A. Taksal, Prof.B.Kadam. The workshop anchored by Miss.Nikita Bhosage student of TE IT and vote of thanks given by Miss.Ishawari shelke TE It Student.





Prof. Pranita S. Ingale  
(Workshop Co ordinator)

Prof. Vidya Jagtap  
(HOD IT Dept)

Dr. T.K. Nagraj  
(Principal)



JAYAWANT SHIKSHAN PRASARAK MANDAL,  
BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY & RESEARCH  
MACHINE LEARNING WORKSHOP FOR JSPMS


From 11<sup>th</sup> OCT 2022 to 13<sup>th</sup> OCT 2022

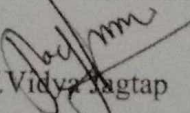
Date	Day	Time	Topics Covered
11/10/2022	Tuesday	9:30 am to 12:30 pm  &  1:00 pm to 4:00 pm	<p>What is Frontend Framework, Difference between JS and TS, Data types in TS, python Concept , How to install anaconda , How to Install python, How to install Jupiter ,what is Regression techniques</p> <p>Assignment:</p> <p><b>A.</b> Apply Linear Regression using suitable library function and predict the Month-wise temperature.</p> <p><b>B.</b> Assess the performance of regression models using MSE, MAE and R-Square metrics</p> <p><b>C.</b> Visualize simple regression model.</p> <p>What is Classification ,what s importance of classification and its techniques .</p> <p>Assignments: By using dataset of graduate admission .</p> <p><b>A.</b> Apply Data pre-processing (Label Encoding, Data Transformation....) techniques if necessary.</p> <p><b>B.</b> Perform data-preparation ( Train-Test Split)</p> <p><b>C.</b> Apply Machine Learning Algorithm</p> <p><b>D.</b> Evaluate Model.</p>
		9:30 am to	What is clustering and its techniques .and bye using this techniques solve

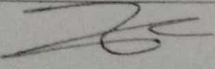


12/10/2022	Wednesday	12:30 pm & 1:00 pm to 4:00 pm	<p>assignment.</p> <p>Assignment: Use Dataset mall-customers.</p> <p>This dataset gives the data of Income and money spent by the customers visiting a Shopping Mall. The data set contains Customer ID, Gender, Age, Annual Income, and Spending Score. Therefore, as a mall owner you need to find the group of people who are the profitable customers for the mall owner. Apply at least two clustering algorithms (based on Spending Score) to find the group of customers.</p> <p><b>A.</b> Apply Data pre-processing (Label Encoding, Data Transformation....) techniques if necessary.</p> <p><b>B.</b> Perform data-preparation( Train-Test Split)</p> <p><b>C.</b> Apply Machine Learning Algorithm</p> <p><b>D.</b> Evaluate Model.</p> <p><b>E.</b> Apply Cross-Validation and Evaluate Model</p>
13/10/2022	Thursday	9:30 am to 12:30 pm & 1:00 pm to 4:00 pm	<p>How Association rules is important in machine learning. What is the role of Association Rules.</p> <p>Assignments:</p> <p>By using market basket optimization dataset.</p> <p>This dataset comprises the list of transactions of a retail company over the period of one week. It contains a total of 7501 transaction records where each record consists of the list of items sold in one transaction. Using this record of transactions and items in each transaction, find the association rules between items.</p> <p>There is no header in the dataset and the first row contains the first transaction, so</p>

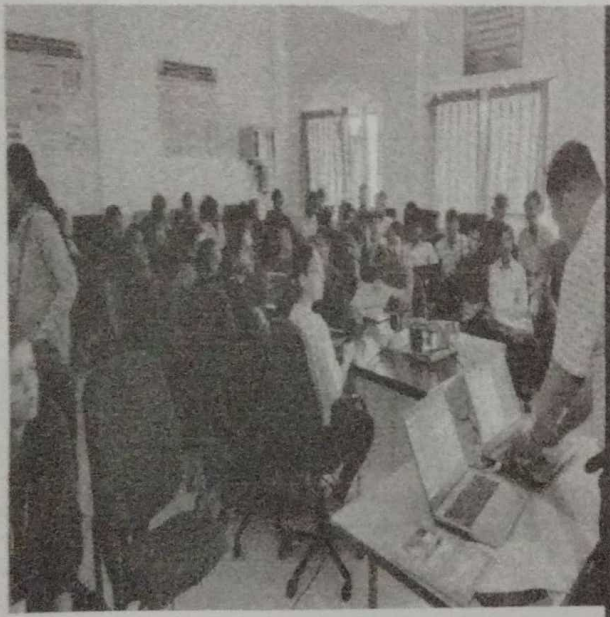
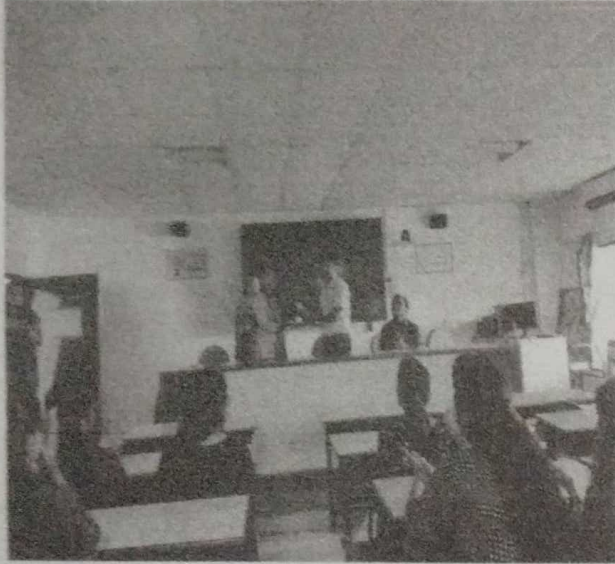
			<p>mentioned header = None here while loading dataset.</p> <p><b>A.</b> Follow following steps :</p> <p><b>B.</b> Data Preprocessing</p> <p><b>C.</b> Generate the list of transactions from the dataset</p> <p><b>D.</b> Train Apriori algorithm on the dataset</p> <p><b>E.</b> Visualize the list of rules</p> <p>How to build Multilayer Neural Network Model.</p> <p>Use this dataset of National Institute of Diabetes and Digestive and Kidney Diseases for build Multilayer Neural Network Model.</p> <p>The dataset is has total 9 attributes where the last attribute is "Class attribute" having values 0 and 1. (1="Positive for Diabetes", 0="Negative")</p> <p><b>A.</b> Load the dataset in the program. Define the ANN Model with Keras. Define at least two hidden layers. Specify the ReLU function as activation function for the hidden layer and Sigmoid for the output layer.</p> <p><b>B.</b> Compile the model with necessary parameters. Set the number of epochs and batch size and fit the model.</p> <p><b>C.</b> Evaluate the performance of the model for different values of epochs and batch sizes.</p> <p><b>D.</b> Evaluate model performance using different activation functions Visualize the model using ANN Visualizer</p>
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 Prof. Pranita S. Ingale  
 (Workshop Coordinator)

  
 Prof. Vidya Jagtap  
 (HOD IT Dept)

  
 Dr. T. K. Nagraj  
 (Principal)







JSPM's  
**Bhivarabai Sawant Institute of Technology & Research**

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TEL.NO.(020)27051170 FAX.NO.(020)2705259 .

Dr.T.J.SAWANT  
FOUNDER SECRETARY

Dr.T.K Nagaraj  
PRINCIPAL

Date:-20/03/2023

**Invitation Letter**

To,

Mr. Panchshil Wankhede,  
Sr. Software Developer  
Hematite Infotech, Pune.

**Subject:** - Invitation as resource person for conduction of Seminar on "Design Thinking" on 27th March 2023.

Dear Sir

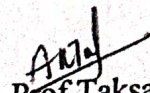
We cordially invite you to conduct a conduction of Seminar on "Design Thinking" on 27<sup>th</sup> March 2023. For SE, TE and BE IT students.

The Details of workshop are as follows,

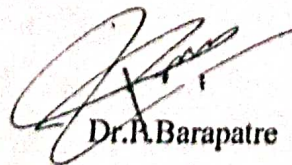
**Venue:** - Seminar Hall, IT Department, JSPM's BSIOTR, Wagholi,  
**Date:** - 27<sup>th</sup> March 2023  
**Time:** - 1.00 p.m. to 4.00 p.m.

Awaiting your kind acceptance.

Enclosure: - Finalized Contents of Seminar as per our discussion.

  
Prof. Taksal A. R.

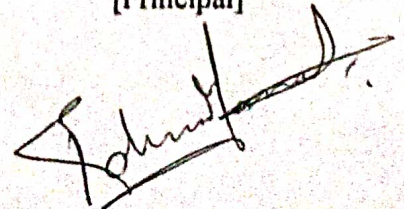
[Seminar Coordinator]

  
Dr. R. Barapatre

[HOD IT Dept]

  
Dr. T.K Nagaraj

[Principal]







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[EN 6311] / [CEGP-013100]

**Prof. Dr. T. J. Sawant**  
B.E. (Elec.) PGDM, Ph.D  
Founder Secretary

**Dr. T.K. Nagaraj**  
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LMISTE, LMIGS, LMIRC  
LMISRMTT, LMIE  
Principal

Date:-28/03/2023

## Seminar on "Design Thinking"

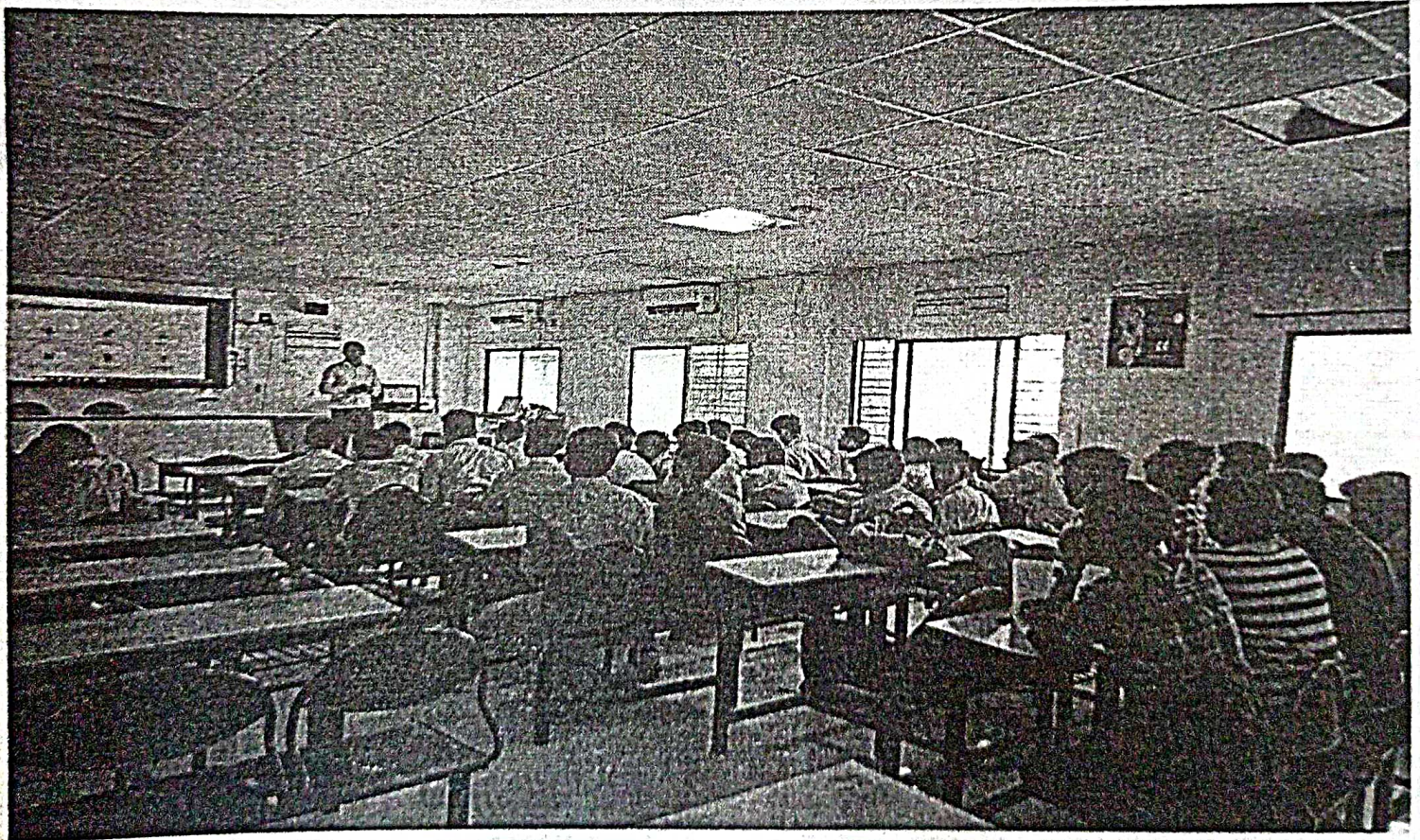
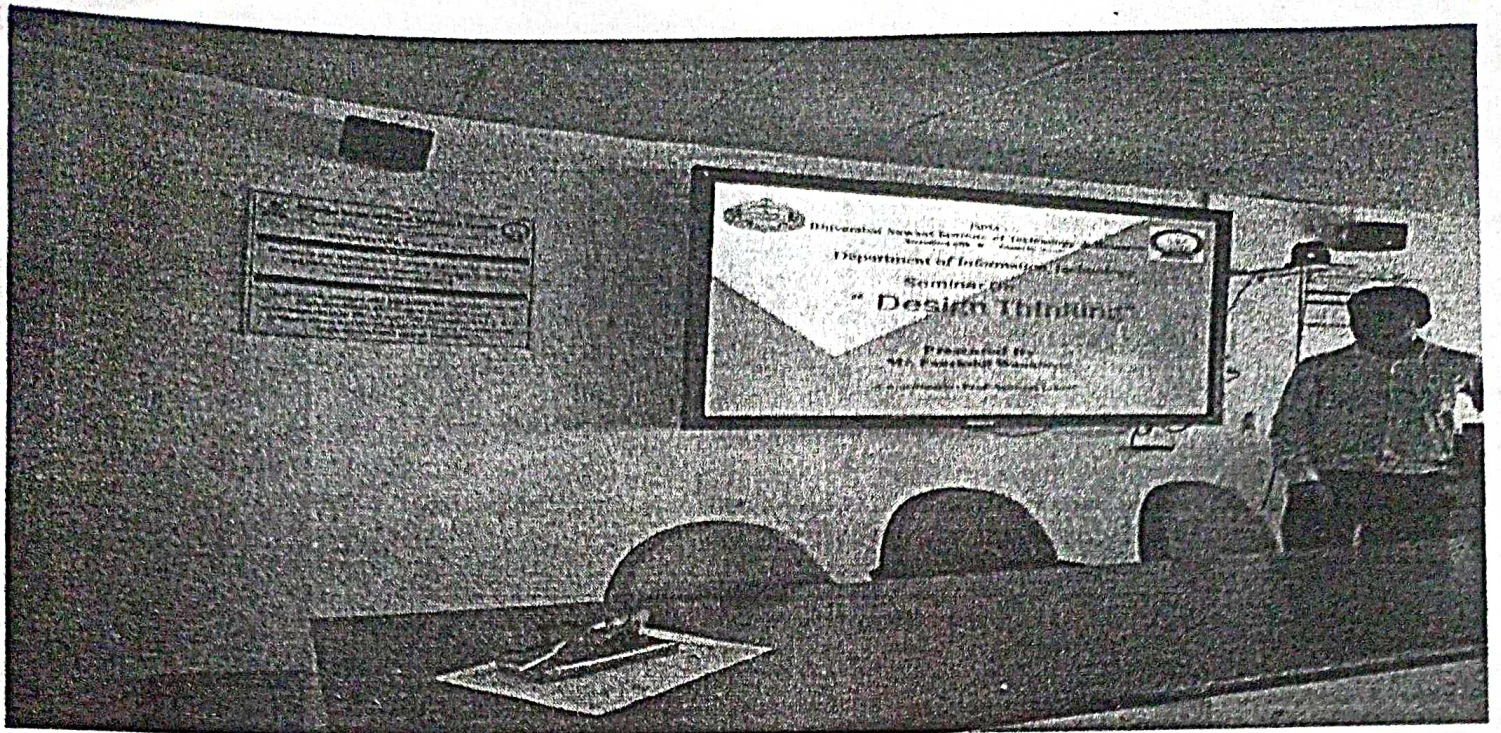
### Event Report

Name of the Event	Seminar On "Design Thinking"
Day and Date of Event	27 <sup>th</sup> March 2023
Time of Event	1.00 pm to 4.00 pm
Venue of the event	JSPM's IT Seminar Hall, Wagholi, Pune
Number of Participant	64

#### Description:

This report provides a brief summary of the Seminar organized by IT department. The Seminar is conducted on the topic "Design Thinking" on 27<sup>th</sup> March 2023 from 1.00 pm to 4.00 pm in the IT seminar hall. The seminar brought together 64 students and faculties. The seminar was delivered by eminent resource person Mr. Panchshil Wankhede, Senior Software Developer, Hematite InfoTech, Pune. The session included some vital contents like How to develop design thinking for various web application developments, group discussion and activities over design thinking.





*Ashwini Taksal*  
**Prof. Ashwini Taksal**  
[Seminar Coordinator]

*Dr. Praveen Barapatre*  
**Dr. Praveen Barapatre**  
[HOD IT Dept]

*Dr. T.K Nagaraj*  
**Dr. T.K Nagaraj**  
[Principal]



# Seminar On " DESIGN THINKING "

Date: 27/03/2023

## Attendance

Sr.No	Name	Class	Sign
1	Gaikwad Mukta Laxman	TE	
2	Nikita Bandesh Bhosage	TE	
3	Rudra Manohar Shejwal	TE	
4	Archana Datta Ambhure	SE	
5	Swamini Eknath Chawan	SE	
6	Yagna Ramesh Dose	SE	
7	Fazreen Patel	SE	
8	Priki Jagtap	TE	
9	Uvishali Bhos	TE	
10	shruti kumar	TE	
11	Tshwari shelke	TE	
12	Akhona Pandav	TE	
13	Shreyas Bandal	TE	
14	Zoyadashan khoutode	-II-	
15	Ashish bidve	-II-	
16	Prathamesh ilag	-II-	
17	Pohan zil	-II-	
18	Akshay ekhande	-II-	
19	Saurabh Tekale	T.F	
20	Yash Shete	T.F	
21	Saurabh Satpute	T.F	
22	Sumit katkar	T.F	
23	Dinkar Deshmukh	T.F	
24	Mukesh Narwade.	T.F	
25	Amaz. Karande	T.F	
26	Harsh Dhurnal	T.F	
27	Sanket Kautkar	T.F	
28	Gaurav Kamble	T.F	
29	Ashutosh Fotegoonkar	T.F	
30	Prathamesh shinde	T.F	
31	Sumit katkar	T.F	
32	Shrikant dighe	T.F	
33	Tushar Kolhe	S.F.	
34	Abhishek Sakoye	S.F	
35	Shivam Swami	SE	



36	Samvanshi Vikas	T.E	<del>Sirsat</del>
37	Tushar Jain	TE	<del>[Signature]</del>
38	Omkar deotkar	TE	<del>[Signature]</del>
39	Dattatraya Puri	TE	<del>[Signature]</del>
40	Hassan Kulkarni	TE	<del>[Signature]</del>
50	Saxfari Mulla	TE	<del>[Signature]</del>
51	Ranjeet Sawant	TE	<del>[Signature]</del>
52	Rohit Kokane	SE	<del>[Signature]</del>
53	Salunke Rohan	S.E	<del>[Signature]</del>
54	Idsmila Amup	T.F	<del>[Signature]</del>
55	Prathamesh Ilag	T.E	<del>[Signature]</del>
56	Sat		
57	Priyadarshan Khawtode		
58	Kushal Sirsat	BE	k.p.sirsat
59	Abhishek Vinod Pawshalkar	BF	<del>[Signature]</del>
60	Sauraj Maruti Sakunde	BE	<del>[Signature]</del>
61	Satyam D. Parkale	BE	<del>[Signature]</del>
62	Kyran Kalyan mayekar	TE	<del>[Signature]</del>
63	Chaudhari Aditya Kondiram	TE	<del>[Signature]</del>
64	Bidve Ashish Umesh	TE	<del>[Signature]</del>
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JSPM's  
**Bhivarabai Sawant Institute of Technology & Research**

(Approved by AICTE, NEW Delhi, GOVT. Of Maha. & Affiliated to UoP)  
GAT.NO.720 (1), WAGHOLI, PUNE-NAGAR ROAD, PUNE-412207.  
TEL.NO.(020)27051170 FAX.NO.(020)2705259 .

Dr.T.J.SAWANT  
FOUNDER SECRETARY

Dr.T.K Nagaraj  
PRINCIPAL

Date:-27/03/2023

**Appreciation Letter**

To,

Mr. Panchshil Wankhede,  
Sr. Software Developer  
Hematite Infotech, Pune.

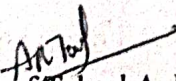
Subject: Appreciation Letter for conduction of Seminar on "Design Thinking" on  
27<sup>th</sup> March 2023 .

Dear Sir,

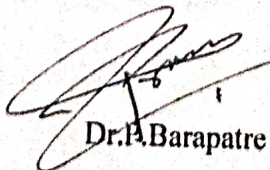
We appreciate your efforts for conducting national level workshop on One day Seminar on "Design Thinking" for students. The seminar will help our students to perceive Web Application Development as a career and work over it. We thank you for sharing your knowledge and skills with us.

Hoping fruitful correspondence in near future.


Thanking You,

  
Prof. Taksal A. R.

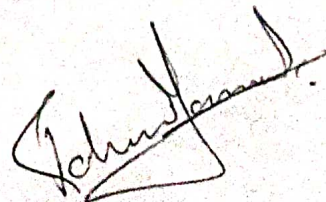
[Seminar Coordinator]

  
Dr. P. Barapatre

[HOD IT Dept]

  
Dr. T.K Nagaraj

[Principal]





JSPM's

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Tel No.(020)27051170 Fax.No.(020)2705259.

DR.T.J.SAWANT

DR.T.K.NAGARAJ

FOUNDER SECRETARY

PRINCIPAL

Date: 09/05/2023

**Business Analytics and Intelligence Workshop Report**

**Event Report**

1.	Name Of The Event	Workshop On Business Analytics and Intelligence
2.	Day & Date Of The Event	Tuesday 09 <sup>th</sup> May 2023 to Monday 15 <sup>th</sup> May 2023
3.	Time Of The Event	9.00 A.M. to 4.00 P.M.
4.	Venue Of the Event	IT Department, JSPM's BSIOTR, Seminar hall no. 311


**5. Description:-**


JSPM's BSIOTR , IT Department organized five days' workshop on "**Business Analytics and Intelligence**" held on 9<sup>TH</sup> of May to 15<sup>th</sup> Of May 2023. The resource people was Mr.Parag Joshi AND Mrs.Kasturi Chaware , Sr. Software Developer, Hematite InfoTech OPC Pvt. Ltd., Pune. The chief guest of inaugural function Dr. Praveen Barapatre HOD IT Dept, Prof. Rekha Kotwal and Prof.Shubra Mathur Assistant Professor.


The workshop was organized by Prof. Pranita S. Inagle ,Prof. A. Taksal, Prof.B.Kadam ,Prof.Shweta khandekar. The workshop anchored by Mr.Abhishek Pawshekar student of BE IT and vote of thanks given by Mr.Kushal Sirsat BE It Student.





  
Prof. Pranita S. Ingale  
(Workshop Co-ordinator)

  
Dr. Praveen Barapatre  
(HOD IT Dept.)

  
Dr. T.K. Nagraj  
(Principal)

		&	(HR+TECHNICAL)
		1:00 pm to 3.30 pm	
11/05/2023	Thursday	9:30 am to 12:30 pm  &  1:00 pm to 3.30	<p>Data analytics tools</p> <ul style="list-style-type: none"> <li>• Microsoft excel</li> <li>• Tableau</li> <li>• Rapidminer</li> <li>• Power bi</li> <li>• SAS</li> <li>• KNIME</li> </ul> <p>What is a KPI? What do KPIs look like?</p> <ul style="list-style-type: none"> <li>• Objective</li> <li>• Description</li> <li>• Completion</li> <li>• Reporting Frequency</li> <li>• Visual</li> <li>• Data Source</li> <li>• Owner</li> </ul> <p>What are Leading and Lagging KPIs Presenting Key Performance Indicators</p> <ul style="list-style-type: none"> <li>• Creating KPI Dashboards</li> <li>• KPI Reports</li> </ul> <p>Comparative study of open –source Data Analysis Tools Identify key performance indicators(KPI) for any real time case study</p>
			<p><b>Group C</b> Introduction to Power BI Desktop</p> <ul style="list-style-type: none"> <li>• Why Power BI?</li> </ul>



12/05/2023	Friday	<p>9:30 am to 12:30 pm</p> <p>&amp;</p> <p>1:00 pm to 4:00 pm</p>	<ul style="list-style-type: none"> <li>• Features of Power BI</li> <li>• Installation of Power BI Desktop</li> <li>• Shared CSV file with students</li> <li>• Power BI workflow</li> <li>• Explain about Report on which we will be working</li> <li>• Difference Between Power BI and Excel</li> <li>• Types of Connectors(flat files &amp; folders, Databases, online services, others)</li> </ul> <p>Introduction to the query editor</p> <ul style="list-style-type: none"> <li>• How to load the CSV file and transform into query editor</li> <li>• Rename table name</li> <li>• Explain about transform and add a column</li> <li>• Merged column</li> <li>• Condition Column</li> <li>• Basic table transformation (Remove Column, Promote Header row, sorting)</li> <li>• Number Column (statistics, Standard, scientific Rounding)</li> <li>• How to extract characters from text column</li> <li>• Introduction to Data Model</li> <li>• Database Normalization</li> <li>• Explanation of Data Tables Vs Lookup Tables</li> <li>• Creating Snowflake Schemas</li> <li>• Managing &amp; Editing Relationships</li> <li>• Creating Table Relationships</li> <li>• Active and Inactive Relationships</li> </ul> <p>Creating Dashboard</p> <ul style="list-style-type: none"> <li>• Building Visuals and understanding charts, Slicer, Matrix and adding fields to it</li> <li>• Understanding conditional formatting</li> <li>• Building Visuals and understanding Line charts and area charts</li> <li>• Understanding filters on visual</li> </ul> <p>Creating interactive visualizations using any open-source tool</p>
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13/05/2023	Monday	<p>9:30 am to 12:30 pm</p> <p>&amp;</p> <p>1:00 pm to 4:00 pm</p>	<p>Introduction to Microsoft Excel Excel terminology and components</p> <ul style="list-style-type: none"> <li>• Worksheet</li> <li>• Worksheet tab</li> <li>• Column and row headings</li> <li>• Formula bar</li> <li>• Address bar</li> <li>• Filter</li> <li>• AutoFill</li> <li>• AutoSum</li> <li>• PivotTable</li> <li>• PivotChart</li> <li>• Source data</li> <li>•</li> </ul> <p>Advanced Excel capabilities</p> <p>Data Visualization in Excel</p> <ul style="list-style-type: none"> <li>• Pie charts</li> <li>• Bar charts</li> <li>• Histograms</li> <li>• Area charts</li> <li>• Scatter plots</li> <li>• Timelines</li> <li>• Gantt charts</li> <li>• Heat maps</li> <li>• Highlight tables</li> <li>• Bullet graphs</li> </ul> <p>Data Validation Financial Analysis Working with Multiple Worksheets Formula Auditing What-if Analysis (perform a what-if analysis on Book store scenario using excel)</p>
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15/05/2023	Monday	<p>9:30 am to 12:30 pm</p> <p>&amp;</p> <p>1:00 pm to 4:00 pm</p>	<p>Introduction to Data Science          What is Artificial Intelligence          What is the difference between          Artificial Intelligence and          machine learning          Explanation of Machine learning          and types of Machine Learning</p> <ul style="list-style-type: none"> <li>• Supervised Learning</li> <li>• Unsupervised Learning</li> <li>• Semi-Supervised Learning</li> <li>• Reinforcement Learning</li> </ul> <p>Supervised Learning</p> <ul style="list-style-type: none"> <li>• Classification</li> <li>• Linear Regression</li> <li>• Logistic Regression</li> <li>• Decision Trees</li> <li>• Random Forests</li> </ul> <p>Unsupervised Learning</p> <ul style="list-style-type: none"> <li>• Clustering</li> <li>• Association</li> </ul> <p>Explanation of libraries and packages          Shared File with students          Create a decision tree for predicting the loan eligibility process using python</p>
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Prof. Pranita S. Ingale  
(Workshop Coordinator)

  
Dr. Pravee Barapatre  
(HOD IT Dept)

  
Dr. T.K. Nagraj  
(Principal)



3.2.2.1 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years  
FDP Report



**Prof. Dr. T. J. Sawant**  
B.E. (Elec.) PGDM, Ph.D  
Founder Secretary

JAYAWANT SHIKSHAN PRASARAK MANDAL'S  
**Bhivarabai Sawant Institute of Technology & Research**  
(Approved by AICTE New Delhi, DTE Mumbai & Affiliated to Savitribai Phule Pune University)  
Accredited with B++ Grade by NAAC  
Gat No. 719/1 & 2, Wagholi, Pune-Nagar Road, Pune-412207  
Ph : 020-067335108, 65217050, 67335100  
Telefax : 020-67335100  
Website : [www.jspm.edu.in](http://www.jspm.edu.in) / [www.bsiotr.org](http://www.bsiotr.org)  
[EN 6311] / [CEGP-013100]



**Dr. T.K. Nagaraj**  
ME. (Civil Engg), Ph.D (Civil Engg)  
LMISTE, LMIGS, LMIRC  
LMISRMTT, LMIE  
Principal



on  
“Outcome Based Education through Student Centric Teaching-  
Learning Process”

(Under the aegis of “IETE Pune Centre” and “IEEE Communication Society Pune Chair”)

at  
**Department of Engineering Science,**  
Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune.

<b>Name of Program</b>	<b>Faculty Development Program on</b> “Outcome Based Education Through Student Centric Teaching-Learning Process”
<b>Date</b>	22 <sup>nd</sup> May 2023 to 26 <sup>th</sup> May 2023
<b>Mode</b>	Online
<b>Organizer</b>	Department of Engineering Science, BSIOTR, Bhivarabai Sawant Institute of Technology & Research, Wagholi, Pune.
<b>Convenor</b>	Dr. Swati Godse, HOD, Department of Engineering Science
<b>Co-Ordinators</b>	Dr. Manjusha Patil (Assistant Professor, Department of Engineering Science). Mr. S.D. Bhourgunde (Assistant Professor, Department of Engineering Science).
<b>Participants</b>	160 Participants from Eight states in India.

The FDP aims to provide opportunities to faculty members, research scholars and postgraduate students to enrich their teaching skill and research in the field of technical and traditional education. The Program also intends to develop the knowledge of participants in the relevant field for inculcating learning values in student sand guiding and monitoring their progress. The FDP was attended by 160 participants from eight states across the India. These participants are faculty members of various technical and traditional educational institutes in India.

**FDP Objectives:**

Teaching – learning process for outcome based education needs reforms keeping in view NEP-2020.



Institutions need to switch to an Outcome Based Education System, to enhance employability of graduate students. The FDP is aimed at up-skilling the faculty members on the topics mentioned below.

- Reforms in Teaching Techniques and Methodology
- Need of Up-skilling of Teacher
- Behavioral Aspects of Teachers with Students
- Innovative Teaching aids-Digital skill
- National Education Policy(NEP-2020)
- Role of Teachers in OBE
- Evaluation Tools and Mapping with Student Performance
- Inculcating and Imparting Outcome Based Education in Engineering Education.
- Roll of professional bodies in OBE

#### FDP Brochure:

<p style="text-align: center;"><b>CHIEF PATRON</b></p> <p><b>Hon. Prof. Dr.T. J. Sawant,</b> Public Health &amp; Family Welfare Minister , Govt. of Maharashtra, Founder Secretary JSPM &amp; TSSM Group of Institutes , Pune</p> <p><b>Hon. Giriraj T. Sawant</b> Secretary , TSSM Group of Institutes,Pune</p> <p><b>Hon. Rushiraj T. Sawant</b> Director , JSPM Group of Institutes , Pune</p>	<p style="text-align: center;"><b>WHO CAN ATTEND ?</b></p> <ul style="list-style-type: none"> <li>● Teaching faculty members of Traditional Educational Colleges and AICTE approved technical institutes from all disciplines</li> <li>● Certificate will be issued only after attending all online sessions and submitting assignments</li> </ul>	 <p style="text-align: center;">JSPM's Bhivarabai Sawant Institute of Tech. &amp; Research,Wagholi, Pune Accredited by NAACBengaluru. (Electrical, E &amp; TC and IT accredited by NBA, New Delhi.)</p> 
<p style="text-align: center;"><b>PATRON</b></p> <p><b>Dr. S. V. Admane</b> Campus Director, Wagholi, Pune</p> <p><b>Dr. T.K.Nagaraj</b> Principal, BSIOTR</p>	<p style="text-align: center;"><b>RESOURCE PERSON</b></p> <p><b>Dr. R. S. Jahagirdar</b> Principal, International Centre of Excellence in Engineering &amp; Management, Aurangabad.</p> <p><b>Dr. Ashwini Deshpande</b> Associate Professor,MKSSS's Cummins College of Engg. for Women, Pune.</p> <p><b>Dr. G. Subba Rao</b> Director, Geetanjali Institute of Science and Technology,Nellore, Andhra Pradesh</p> <p><b>Prof. Vinayak S.More</b> Assistant Professor, GVM's Dr. Dada Vaidya College Of Education Farnagudi, Ponda ,Goa</p> <p><b>Prof. Isak Mujawar</b> Former Associate Professor &amp;Dean,N.K.Orchid College of Engg. &amp; Tech. Solapur</p> <p><b>Dr. Smita Bhamare</b> Professor, College of Education , Pune</p> <p><b>Dr. Aarti Dandavate</b> Professor, DPCOE Pune</p> <p><b>Dr.Y.S.Angal</b> Professor,HOD, E&amp;TC,BSIOTR,Pune</p>	<p style="text-align: center;"><b>One Week National Level Online Faculty Development Program On "Outcome Based Education through Student Centric Teaching-Learning Process" (22<sup>nd</sup> to 26<sup>th</sup> May 2023) Organized By Department of Engineering Science, BSIOTR. In association with "IETE Pune Centre"&amp; "IEEE Communication Society Pune Chair"</b></p>  
<p style="text-align: center;"><b>PROFESSIONAL BODY</b></p> <p><b>Dr. Makarand M. Jadhav</b> Chapter Chair, IEEE Communication Society, Pune Center</p> <p><b>Dr. V. V. Shete</b> Chairman, IETE Pune Centre</p> <p><b>Dr. D. G. Bhalke</b> Secretary, IETE Pune Center</p>	<p style="text-align: center;"><b>CONVENER</b></p> <p><b>Dr. Swati Godse</b> Head, Engineering Science Department, BSIOTR Email: fedepartmentbsiotr@gmail.com Contact Number: 9657042626</p>	 <p style="text-align: center;"><b>ADDRESS OF INSTITUTION</b> JSPM's Bhivarabai Sawant Institute of Technology &amp; Research Pune-412207 (Maharashtra) Gat No.720 (1&amp;2), Pune-Nagar Road, WagholiPune-412207 Phone: (020) 67335100. Website: <a href="http://www.jspmbiotr.edu.in">www.jspmbiotr.edu.in</a></p>
<p style="text-align: center;"><b>COORDINATORS</b></p> <p><b>Dr. Manjusha Patil</b> <b>Mr. S. D. Bhourgunde</b> Assistant Professor Mobile No. – 8407944946, 9552449620 Email: sdbhourgunde_es@jspmbiotr.edu.in</p>		



#### ABOUT JSPM

Jayawant Shikshan Prasarak Mandal (JSPM) was established in 1998 with the objective of creating center of excellence for education in the field of Engineering, Medical, Pharmacy, Management etc. JSPM imparts quality education through effective implementation of right curriculum and innovative teaching methodologies. JSPM Group of Institutes has evolved from single institute to 75+ institutes, located in six campuses in Pune. JSPM provides students a vibrant academic experience that adheres to stringent international quality standards, imbibes life skills among its students, and prepares them to take up competitive careers and to be successful in life.

#### ABOUT THE INSTITUTE

JSPM's Bhivarabai Sawant Institute of Technology and Research established in 2009, believes in practicing various student centric teaching learning methodologies to impart quality engineering education to students. The Institute is approved by the All India Council for Technical Education (AICTE), New Delhi and affiliated to Savitribai Phule Pune University (SPPU) Pune. The institute is accredited by NAAC and three programs namely Electrical, E & TC and IT are accredited by NBA. The Institute is located in Wagholi in lush green and well maintained campus which is in the vicinity of industries and IT companies to provide an opportunity for more Industry-Institute-Interaction. The Institute provides conducive environment for the holistic development of individual skills and personality development through program outcome aligned activities

#### INSTITUTE VISION

To satisfy the aspirations of youth force, who want to lead the nation towards prosperity through techno-economic development.

#### INSTITUTE MISSION

To provide, nurture and maintain an environment of high academic excellence, research and entrepreneurship for all aspiring students, which will prepare them to face global challenges maintaining high ethical and moral standards."

#### ABOUT THE DEPARTMENT

The department has 420 intakes (UG level). The department implements the curriculum blended with PO aligned student centric activities for lifelong learning and leadership skills that enable them to grow in their profession and advance in positions of responsibility. The department has well equipped state of the art labs with modern infrastructure and ICT enabled classrooms.

#### OBJECTIVES OF FDP

Teaching – learning process for outcome based education needs reforms keeping in view NEP-2020. Institutions need to switch to an Outcome Based Education System, to enhanced employability of graduate students. The FDP is aimed at up skilling the faculty members on the topics mentioned below.

#### CONTENT

- Reforms in Teaching Techniques and Methodology
- Need of Up-skilling of Teacher
- Behavioral Aspects of Teachers with Students
- Innovative Teaching aids-Digital skill

- National Education Policy(NEP-2020)
- Role of Teachers in OBE
- Evaluation Tools and Mapping with Student Performance
- Inculcating and Imparting Outcome Based Education in Engineering Education.
- Role of professional bodies in OBE

#### REGISTRATION

Registration Fees: Rs.200/-  
Mode of Payment- Online  
Name of Account: JSPM Bhivarabai Sawant Institute of Technology & Research  
Account Number: 360002010211063  
Name of Bank: Union Bank of India  
IFSC Code: UBIN0536008  
Branch: Navi Peth, Pune  
Scan To Pay:



Registration Form Link :

<https://forms.gle/FMidnKpzVTwfnfcq5>

Whatsapp Group Link

<https://chat.whatsapp.com/IwgOrhJSIfs5PPvMnqkn2w>

#### InauguralSession:

#### Inaugural and Key Note Address Session

Date	22 <sup>nd</sup> May 2023
Time	1:00 PM

The esteemed personalities present on the inauguration of the Program:

Dr.Sachin Admane	Campus Director,JSPM Wagholi Campus,Pune.	Chief Guest
Dr.Rajkumar Deshpande	Principal,JSPM's,ICOER,Wagholi,Pune.	Chief Guest
Dr.T.K.Nagaraj	Principal,BSIOTR,Wagholi,Pune.	Host
Dr.Swati Godse	HOD, Department of Engineering Science,BSIOTR, Pune.	Host

The FDP started with e-light lamping by Dr.Sachin Admane, Dr.Rajkumar Deshpande, Dr.T.K.Nagaraj, Dr.Swati Godse, Dr.Manjusha Patil, Mr.S.D.Bhourgunde.In introduction speech Convener Dr.Swati Godse welcomes all chief guests,resource persons & participants and gave brief introduction about the Department and FDP.In welcome speech, Hon. Principal Dr. T. K. Nagaraj introduced about JSPM's BSIOTR in brief and shared his views with the faculty participants that if faculty wants to develop themselves and their students, then attending such faculty development program would enhance their skills of teaching concepts practically. Sir further shared that it helps to improve the performance of faculty in teaching and highlighted the importance and objectives of organizing faculty development program. He briefed the participants about the subjects chosen for the FDP and highlighted the reasons and importance of the same.In Presidential address Hon.Dr.Sachin Admane (Campus Director,JSPM Wagholi Campus,Pune) Introduces about JSPM wagholi campus, congratulates faculty members for organizing FDP and gave best wishes to all participants. The inauguration program ended with vote of thanks by Dr.Manjusha Patil.



**JAYWANT SHIKSHAN PRASARAK MANDAL'S**  
**BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY & RESEARCH ,**  
**WAGHOLI, -PUNE 412207**  
 (Approved by AICTE New Delhi, DTE Mumbai, Govt. of Maharashtra and Affiliated to Savitribai Phule Pune University)  
 Accredited NBA & NAAC

**Department of Engineering Science**  
 is Organizing one week FDP (Online) In Association with IETE Pune Center  
 & IEEE Communication Society Pune Chapter  
**On**  
**Outcome Based Education Through Student Centric**  
**Teaching - Learning Process**  
**Duration: 22/05/2023 to 26/05/2023**

**Inauguration Function**  
 In Auspicious Presence of



Dr. Sachin Admane  
Campus Director  
SPMS, Wagholi



Dr. Rajkumar Deshpande  
Principal JSPM'S ICOER

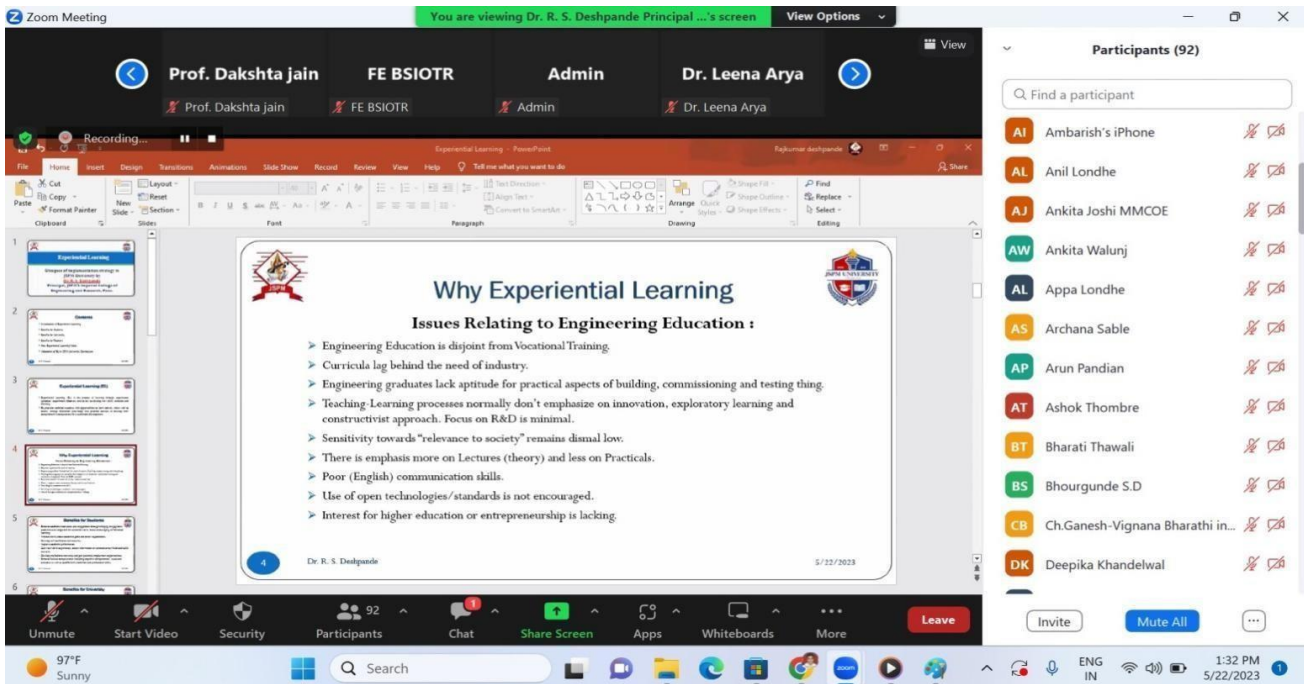


Dr. T.K. Nagaraj  
Principal, JSPM'S BSIOTR



Dr. S.S. Godse  
HOD, FE

In key-note address talk chief guest Dr. Rajkumar Deshpande (Principal, JSPM's, ICOER, Wagholi, Pune) explained very nice about different student centric teaching methods, advantages and importance of these teaching methods. This session was informative and solved queries raised by participants.



The screenshot shows a Zoom meeting interface. At the top, it says "You are viewing Dr. R. S. Deshpande Principal ...'s screen". The meeting title is "Prof. Dakshta jain FE BSIOTR Admin Dr. Leena Arya". The main content is a PowerPoint slide titled "Why Experiential Learning" with the following text:

**Why Experiential Learning**  
**Issues Relating to Engineering Education :**

- > Engineering Education is disjoint from Vocational Training
- > Curricula lag behind the need of industry.
- > Engineering graduates lack aptitude for practical aspects of building, commissioning and testing thing.
- > Teaching - Learning processes normally don't emphasize on innovation, exploratory learning and constructivist approach. Focus on R&D is minimal.
- > Sensitivity towards "relevance to society" remains dismal low.
- > There is emphasis more on Lectures (theory) and less on Practicals.
- > Poor (English) communication skills.
- > Use of open technologies/standards is not encouraged.
- > Interest for higher education or entrepreneurship is lacking.

On the right side, there is a list of 92 participants, including names like Ambarish's iPhone, Anil Londhe, Ankit Joshi MMCOE, Ankit Walunj, Appa Londhe, Archana Sable, Arun Pandian, Ashok Thombre, Bharati Thawali, Bhourgunde S.D, Ch.Ganesh-Vignana Bharathi in..., and Deepika Khandelwal.



Date	22 <sup>nd</sup> May 2023 (Day-1)
Session	One
Topic	Role of Teachers in OBE
Resource Person	Dr.G.Subba Rao Director, Geetanjali Institute of Science and Technology,Nellore, Andhra Pradesh.
Time	2:00 PM To 4:00 PM



Dr.Prof. T.J.Sawant

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accredited by NBA and NAAC



Hon. Shri. Rishiraj T. Sawant

**DEPARTMENT OF ENGINEERING SCIENCE**  
is organising one week FDP(online) in associated with IETE Pune Center and IEEE  
communication Society Pune Chapter on  
**OUTCOME BASED EDUCATION THROUGH STUDENT CENTRIC  
TEACHING-LEARNING PROCESS**

**Date:-22/05/2023**

**TIMING:- 2 PM to 4 PM**

**Topic :- ROLL OF TEACHER IN OBE**

**Resource person for session**



**Dr Subba Rao**

Director, Geetanjali Institute  
of Science and technology,  
Nellore, Andhra Pradesh

**Dr.Swati Godse (HOD F.E.,BSIOTR)**

The screenshot shows a Zoom meeting interface. At the top, it says "You are viewing Dr. G. Subba Rao, Principal, G... 's screen". The main content is a presentation slide with the title "Revised Bloom-Vincenti Taxonomy Table" in green. The slide lists three bullet points:

- In case of Engineering courses there are four additional categories of Knowledge
- RBV Taxonomy Table will be 6 x 8 table
- The features of RBV Taxonomy table will be same as RB Taxonomy Table

On the right side of the screen, there is a video thumbnail of Dr. G. Subba Rao, Principal, GIST. Below it, the name "Dr. R. S. Deshpande" is visible, along with "Principal ICOER". At the bottom of the screen, the Zoom control bar shows "Unmute", "Start Video", "Security", "Participants" (94), "Chat", "Share Screen", "Record", "Breakout Rooms", "Raise Hand", "Apps" (1), "Whiteboards", "More", and a "Leave" button.

**Dr.G.Subba Rao**,Director, Geetanjali Institute of Science and Technology,Nellore,Andhra Pradesh has delivered an interactive session on “Role of Teachers in OBE”. In this session participants were learned about meaning, nature and importance of outcome based education (OBE).Also with the help of PPT’s sir has explained and illustrated different role of teachers in outcome based education (OBE).



Date	23 <sup>rd</sup> May 2023 (Day-2)
Session	One
Topic	Need of Upskilling of Teachers
Resource Person	Dr.R.S.Jahagirdar Principal, International Centre of Excellence in Engineering & Management, Aurangabad.
Time	2:00 PM To 4:00 PM



**JSPM's  
BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND  
RESEARCH**

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**DEPARTMENT OF ENGINEERING SCIENCE**

is organising one week FDP(online) in associated with IETE Pune Center and IEEE communication Society Pune Chapter on

**OUTCOME BASED EDUCATION THROUGH STUDENT CENTRIC  
TEACHING-LEARNING PROCESS**

**Date:-23/05/2023**

**TIMING:- 11:15 AM to 1:15 PM**

**Topic :- Need of Upskilling of Teachers**

**Resource person for session**



**Dr.R.S.Jahagirdar**

Principal, International  
Centre of excellence  
in engineering and  
management, Aurangabad



Dr.Prof.T.J.Sawant



Hon. Shri. Rishiraj T. Sawant

**Convener : Dr.Swati Godse (HOD F.E.,BSIOTR)**

**Dynamic Approach to new skills:-**

- ▶ Reactive
- ▶ Predictive: - prig investment in predictive approaches may not work or report ratline approach.
- ▶ Identify changing skills needs.
- ▶ Jumpstart skill Development.
- ▶ Foster transparency between you, peer & employer.

**Participants (84)**

DM	Dr. Mallikarjun Shrigan	🔇
DP	Dr. Pratibha Bomble-INDIA	🔇
DH	Dr.Haloli H G	🔇
DS	Dr.Navneet Sangle	🔇
DB	Dr.Ramdas Borse	🔇
IR	Ishan raut	🔇
IM	Ishwari Mamidwar	🔇
JS	J SHARON CHRISTINA	🔇
KC	Kiran Chaudhari	🔇
KV	Kiran Varade	🔇
KL	Kushal Lodha	🔇
M	MARIA	🔇

An informative & inspirational session on “Need of Up-skilling of Teachers” was delivered by Dr.R.S.Jahagirdar Principal, International Centre of Excellence in Engineering & Management, Aurangabad. In this session participants were learned about need and importance of up-skilling of teachers. Also he discussed about different approaches for gaining new skills and need of new skills for the development of any institute and nation.



Date	23 <sup>rd</sup> May 2023 (Day-2)
Session	Two
Topic	Evaluation Tools and Mapping with Student Performance
Resource Person	Dr.SmitaBhamare, Professor, College of Education, Pune.
Time	2:00 PM To 4:00 PM



Dr.Prof.T.J.Sawant

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is organising one week FDP(online) in associated with IETE Pune Center and IEEE  
communication Society Pune Chapter on

**OUTCOME BASED EDUCATION THROUGH STUDENT CENTRIC  
TEACHING-LEARNING PROCESS**

**Date:-23/05/2023**

**TIMING:- 2 PM to 4 PM**

**Topic :- EVALUATION OF TOOLS AND MAPPING WITH  
STUDENT PERFORMANCE**

**Resource person for session**



**Prof.Smita Bhamare**

Professor, College of  
Education, Pune



Hon.Shri.Rishiraj T. Sawant

**Dr.Swati Godse (HOD F.E., BSIOTR)**

The screenshot shows a Zoom meeting in progress. The main window displays a grid of 25 participant tiles. The top-left tile is highlighted, showing Prof. Smita Bhamare. Other visible participants include Dnyaneshwar Magar, Prof. Dakshata Jain, Vanita Atre, Dr. Ram Tambe, FE BSIOTR, Prof. Ms. Priyanka Bhojwar, FE BSIOTR\_1, Hole yogesh, Neha Dumne, Prof. Vaijanta Bhogawade, Vijaykumar Sambhaji Patil, Paramela Jogadande, Rane Madhavi M, Ambarish's iPhone, Dr. Leena Arya, JSPM, Ch. Ganesh-Vignana Bhar..., Alankrita jain, Mhaske balu, Prof. Dr. Sandhya Desai, Ankita Joshi MMCOE, Appa Londhe, TK Kumkar, and Pranali Sisodiya. On the right side, a 'Participants (78)' list is visible, showing a search bar and a list of participants with their names and roles, such as Dnyaneshwa... (Co-host, me), JSPM (Host), Prof. Smita Bhamare (Co-host), FE BSIOTR (Co-host), Vanita Atre, A. Gore, Admin, Alankrita jain, Ambarish's iPhone, Anil Poshetti, Ankita Joshi MMCOE, and Appa Londhe. At the bottom, the Zoom control bar shows options like Unmute, Start Video, Security, Participants (78), Chat, Share Screen, Apps, Whiteboards, More, and Leave.

Dr.SmitaBhamare, Professor, College of Education, Pune.has delivered an informative lecture on “Evaluation Tools and Mapping with Student Performance”. In this session participants were taught about different outcome based oral, practical and theoretical tools and techniques of evaluation. Also with the help of an illustration she has explained mapping of these tools and techniques with student’s performance.



Date	24 <sup>th</sup> May 2023 (Day-3)
Session	One
Topic	Reforms in Teaching Techniques and Methodology
Resource Person	Dr.R.S.Jahagirdar Principal, International Centre of Excellence in Engineering & Management, Aurangabad.
Time	11:15 AM To 1:15 PM



Dr.Prof. T.J.Sawant

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TEACHING-LEARNING PROCESS**



Hon. Shri. Rishiraj T. Sawant

**Date:-24/05/2023**

**TIMING:- 11:15 AM to 1:15 PM**

**Topic :- Reform in Teaching techniques and Methodology**

**Resource person for session**



**Dr.R.S.Jahagirdar**

Principal, International  
Centre of excellence  
in engineering and  
management, Aurangabad

**Convener : Dr.Swati Godse (HOD F.E., BSIOTR)**

**Dr.R.S.Jahagirdar**, Principal, International Centre of Excellence in Engineering & Management, Aurangabad has illuminated on “Reforms in Teaching Techniques and Methodology”. In this session participants were gained the knowledge of different reforms in teaching techniques in OBE and reforms in teaching methodologies in outcome based education (OBE). Also he has presented one case study illustrating reforms in teaching techniques and methodology.



Date	24 <sup>th</sup> May 2023 (Day-3)
Session	Two
Topic	National Education Policy (NEP)-2020
Resource Person	Prof.Vinayak S.More Assistant Professor, GVM's Dr. Dada Vaidya College Of Education, Farmagudi, Ponda,Goa.
Time	2:00 PM To 4:00 PM



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TEACHING-LEARNING PROCESS**



Hon. Shri. Rishiraj T. Sawant

**Date:-24/05/2023**

**TIMING:- 2 PM to 4 PM**

**Topic :-National education policy(NEP-2020)**

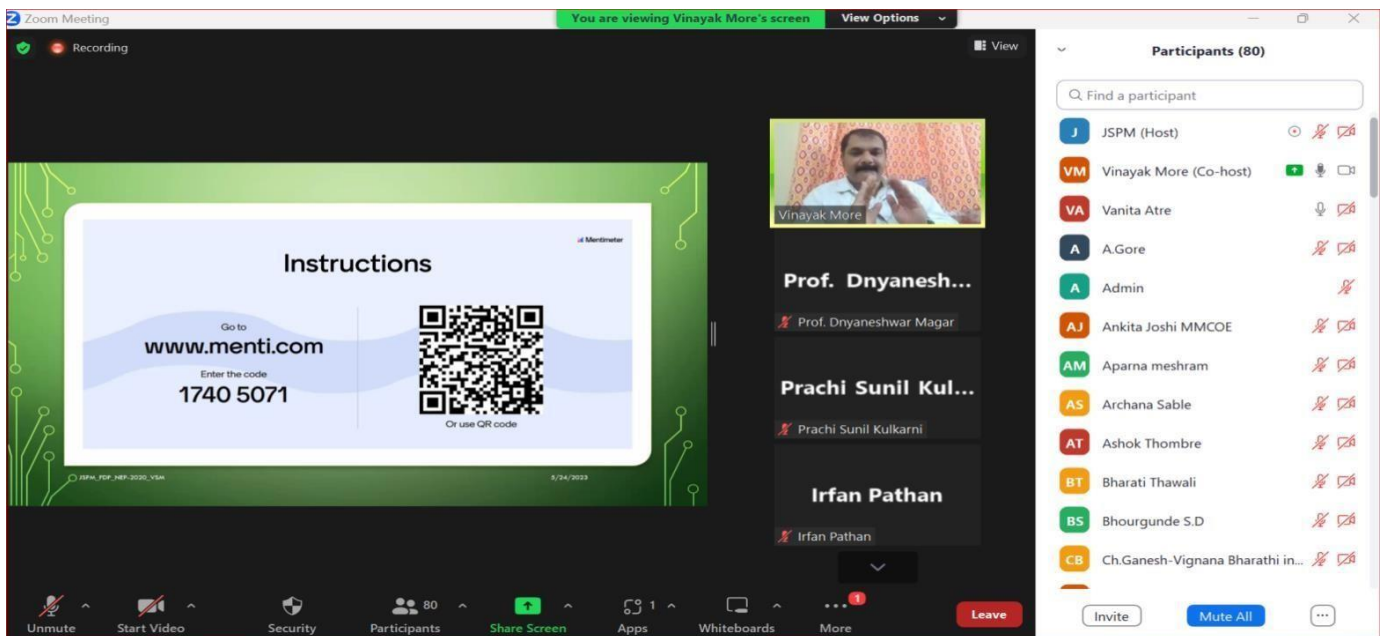
## Resource person for session



### Prof. Vinayak S. More

Assistant professor,  
GVM's Dr.Dada Vaidya College of  
education, Farmagudi, Ponda, Goa

**Convener: Dr.Swati Godse (HOD F.E.,BSIOTR)**



**Prof.Vinayak S.More** ,Assistant Professor,GVM's Dr. Dada Vaidya College Of Education, Farmagudi,Ponda,Goa has discussed on “National Education Policy (NEP)-2020”.He started his session with brief introduction of different educational commissions of Independent India and gave insightful talk on different recommendations in National Education Policy (NEP)-2020. His presentation was both informative and engaging, and participants learned a lot from his expertise on the topic. Participants were solved their queries regarding National Education Policy (NEP)-2020, by asking question during the session.

Date	25 <sup>th</sup> May 2023 (Day-4)
Session	One
Topic	Behavioral Aspects of Teachers with Students
Resource Person	Prof.Isak Mujawar Former Associate Professor & Dean, N.K.Orchid College of Engg. & Tech.Solapur.
Time	11:15 AM To 1:15 PM



Dr.Prof.T.J.Sawant

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**OUTCOME BASED EDUCATION THROUGH STUDENT CENTRIC  
TEACHING-LEARNING PROCESS**

**Date:-25/05/2023**

**TIMING:- 11:15 AM to 1:15 PM**

**Topic :-Behavioural aspects of Teachers with student**



Hon. Shri. Rishiraj T. Sawant

**Resource person for session**



**Prof. Isak Mujawar**

Former associate professor and Dean  
N.K.Orchid College of engineering and  
Technology, Solapur

**Convener: Dr.Swati Godse (HOD F.E., BSIOTR)**

**Prof. Isak Mujawar, Former Associate Professor & Dean, N.K.Orchid College of Engg. & Tech.Solapur** has conducted very nice session on “Behavioral Aspects of Teachers with Students”. With the help of informative, attractive and engaging PPT’s he discussed about different behavioral aspects of teachers concerned with students. In this session participants realized the significance of these behavioral aspects of teachers in all round development of student.



<b>Date</b>	<b>25<sup>th</sup> May 2023 (Day-4)</b>
<b>Session</b>	<b>Two</b>
<b>Topic</b>	<b>Inculcating and Imparting Outcome Based Education in Engineering Education</b>
<b>Resource Person</b>	<b>Dr.Aarti Dandavate,Professor, Dhole Patil COE ,Pune.</b>
<b>Time</b>	<b>2:00 PM To 4:00 PM</b>



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Dr.Prof.T.J.Sawant



Hon.Shri.Rishiraj T. Sawant

**Date:-25/05/2023**

**TIMING:- 2 PM to 4 PM**

**Topic :-Inculcating and imparting outcome based education in engineering Education**

**Resource person for session**



**Dr.Aarti Dhandavate**

Professor,Dhole Patil COE  
Pune

**Convener:Dr.Swati Godse (HOD F.E.,BSIOTR)**

The screenshot shows a Zoom meeting interface. On the left, a presentation slide is displayed with the following content:

**Through teaching, the teacher aims at**

- ✦ The way that a teacher adopts to transmit contents to students is called a teaching method
- ✦ The way in which teacher uses activities and learning objects for enhancement of learning according to objectives is called teaching method
- ✦ Combination of techniques and activities

On the right, a list of participants is shown:

Initials	Name	Audio	Video
PJ	Pranjal Jog	Off	Off
PM	Pratibha Mulik	Off	Off
PT	Preeti Tomar	Off	Off
PB	Priya Bhatt	Off	Off
PD	Prof. Dakshita jain	Off	Off
PM	Prof. Madhuri Arya	Off	Off
PS	Prof. Sharad	Off	Off
PD	Prof.Dr.Sandhya Desai	Off	Off
PG	Prof.Dr.Swati Godse, FE HOD, B...	Off	Off
PD	Prof.Prachi Deshpande	Off	Off
PB	Prof.Vaijanta Bhogawade	Off	Off
R	R.Srilatha	Off	Off

At the bottom of the Zoom window, there are buttons for 'Invite' and 'Unmute Me'. A notification indicates 'four network bandwidth is low'.

**Dr.Aarti Dandavate**,Professor, Dhole Patil COE ,Pune has delivered session on “Inculcating and Imparting Outcome Based Education in Engineering Education”. In this session, using informative PPT’s she has discussed about outcome based teaching methods, outcome based evaluation tools, Blooms taxonomy and assignments etc.Also she cleared doubts asked by participants and participants realized the importance of OBE in Engineering education and traditional education.

Date	26 <sup>th</sup> May 2023 (Day-5)
Session	One
Topic	Innovative Teaching Aids-Digital Skill
Resource Person	<b>Dr.Ashwini Deshpande</b> Associate Professor at Dept. of E &TC Engg., MKSSS's Cummins College of Engineering for Women,Pune.
Time	1:15AM To1:15PM



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**OUTCOME BASED EDUCATION THROUGH STUDENT CENTRIC  
TEACHING-LEARNING PROCESS**



Hon.Shri.Rishiraj T. Sawant

**Date:-26/05/2023**

**TIMING:- 11:15 AM to 1:15 PM**

**Topic :-Innovative teaching aids-digital skill**

## Resource person for session



**Dr. Ashwini Deshpande**

Associate Professor at dept of  
E &TC engg MKSSS's Cummins  
college of women, Pune

**Convener:Dr.Swati Godse (HOD F.E.,BSIOTR)**

The screenshot shows a Zoom meeting interface. On the left, a slide titled "Mind-Map" is displayed. The slide contains two bullet points: "At the end of a topic, create a mind-map of the topic to assist revision" and "It can be done on the board or using ICT tools". The mind map itself is a circular diagram with "Product Life Cycle" at the center. It branches into four main categories: "Introduction", "Growth", "Maturity", and "Decline". Each category has several sub-points:

- Introduction:** High costs, Low sales, Little competition.
- Growth:** Sales increase, Profits increase, Competitive increase.
- Maturity:** Sales growth slows, Profits level off, Competition increases.
- Decline:** Profits decline, Sales slow down, Critical steps to the PLC.

On the right side of the Zoom window, there is a "Participants (73)" list. The list includes names and initials of participants, such as Prof.Dnyaneshwar Magar (PM), Prof.Dr.Sandhya Desai (PD), Prof.Dr.Swati Godse, FE HOD, B... (PG), Prof.Prachi Deshpande (PD), Prof.Vaijanta Bhogawade (PB), Santhi kumari (SK), Santosh Jadhav (SJ), Shailesh Pimpale (SP), Sudhir Landage (SL), Sujin P (SP), sunita yadav (SY), and Supriya Shelke (SS). There are also "Invite" and "Mute All" buttons at the bottom of the list.

A discussion on “Innovative Teaching Aids-Digital Skill” was delivered by **Dr.Ashwini Deshpande**, Associate Professor, Dept. of E &TC Engg., and MKSSS’s Cummins College of Engineering for Women, Pune. In this session participants got important knowledge about different innovative teaching aids. Through informative PPT’s she has illustrated applications of innovative teaching aids in effective teaching –learning process.



Date	26 <sup>th</sup> May 2023 (Day-5)
Session	Two
Topic	Role of Professional Bodies in OBE
Resource Person	Dr.Y.S.Angal, Professor, HOD, E&TC, BSIOTR, Pune.
Time	2:00 PM To 3:00 PM



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**OUTCOME BASED EDUCATION THROUGH STUDENT CENTRIC TEACHING-LEARNING PROCESS**

**Date:-26/05/2023**  
**TIMING:- 2 PM to 3 PM**

**Topic :-Role of professional Bodies in OBE**

**Resource person for session**



**Dr. Y.S. Angal**  
Professor, HOD (E&TC) Dean (R&D), BSIOTR.



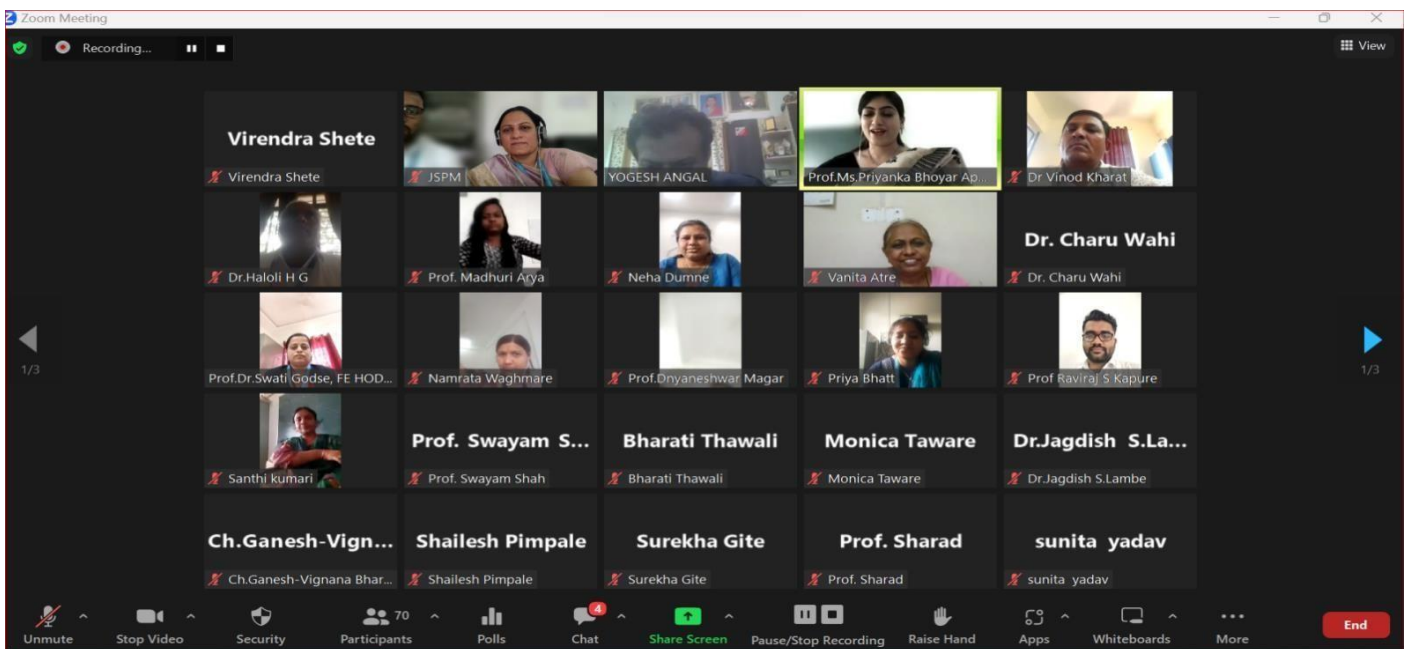


Dr. Prof. T.J. Sawant



Hon. Shri. Rishiraj T. Sawant

**Convener: Dr. Swati Godse (HOD F.E., BSIOTR)**



**Dr. Y.S. Angal**, Professor, HOD, E&TC, BSIOTR, Pune has delivered session on “Role of Professional Bodies in OBE”. In this session, through PPT’s he has discussed about different professional bodies concerned with science and technology, their role in development of students and role of these bodies in OBE.

Valedictory Session	
Date	26 <sup>th</sup> May 2023 (Day-5)
Time	3:00 PM

The esteemed personalities present on the Valedictory of the Program:

Dr.V.V. Shete	Chairman,IETE, Pune Centre.	Chief Guest
Dr.T.K.Nagaraj	Principal,BSIOTR,wagholi,Pune.	Host
Dr.Y.S.Angal	HOD(E&TC),BSIOTR,wagholi,Pune.	Host
Dr.Swati Godse	HOD, Department of Engineering Science, BSIOTR, Pune.	Host



**JAYWANT SHIKSHAN PRASARAK MANDAL's**  
**BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY & RESEARCH ,**  
**WAGHOLI, -PUNE 412207**  
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**Department of Engineering Science**  
 is Organizing one week FDP (Online) In Association with IETE Pune Center  
 & IEEE Communication Society Pune Chapter

**On**  
**Outcome Based Education Through Student Centric**  
**Teaching - Learning Process**

**Date: 26/05/2023**

**VALEDICTORY FUNCTION**

IN AUSPICIOUS PRESENCE OF



Dr.Sachin Admane  
 Campus Director  
 JSPM,Wagholi



Dr.T.K.Nagaraj  
 Principal,JSPM's BSIOTR



Prof. (Dr.) Virendra V. Shete  
 Chairman, IEEE Pune Section  
 Education Society.



Dr. Makarand M. Jadhav  
 Vice Chairman, IEEE Pune Section  
 Communication Society.



Dr.S.S.Godse  
 HOD,FE

All the personalities appreciated the department for organizing the FDP. The program was ended with vote of thanks by Mrs. Suchipriya Malge, Asst. Prof., Electronics & Telecommunication Dept., JSPM's BSIOTR & Coordinator of the FDP. The FDP received a lot of positive feedback from faculty members from many institutes of India. There were 160 enthusiastic participants in total, who took part in the 5-day online FDP. Each session was of Minimum 60 minutes & Maximum 120 minutes and included open questions, answer session. Zoom meeting was the platform used for each session.


(Link: <https://us02web.zoom.us/j/89199231351?pwd=SU5nbk15RFZzZMkpZcXVHaDBpc1MyUT09> Zoom meeting ID: 89199231351 Password: 544247); feedback links were shared, MCQ Test was conducted at the end of FDP. The registered participants were engaged in a special WhatsApp group.

The recordings are being uploaded on the Google Drive (<http://drive.google.com/drive/folders/1tV9IU35oz9VuWVN77850MeAf7utSveiC?usp=sharing>)

.160 E-certificates were awarded to all registered participants by sharing Google Drive Link. The FDP was concluded on the tanks giving note to the Chief Guest, Management, Campus Director, Principal, Deans and all the Participants.





## Sample FDP Certificate:



**JSPM's**  
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& Research, Wagholi, Pune.**

Accredited by NAAC ,Bengaluru.(Electrical, E & TC and IT accredited by NBA, New Delhi.)




**CERTIFICATE OF PARTICIPATION**

This certificate is presented to

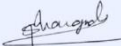
**Amit Khandagale**

of **Ajeenkya D Y Patil school of Engg.**

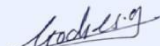
has participated in One Week National Level Online Faculty Development Program On **“Outcome Based Education through Student Centric Teaching-Learning Process”** held from 22/05/2023 to 26/05/2023 Organized by **Department of Engineering Science , BSIOTR Wagholi,Pune in association with “IETE Pune Centre”& “IEEE Communication Society Pune Chair”.**




**Coordinator**  
Dr.Manjusha Patil




**Coordinator**  
Mr.S.D.Bhourgunde



**Convener**  
Dr.Swati Godse



**Principal**  
Dr.T.K.Nagaraj



## FDP Outcome:

All the sessions were very much informative and inspirational. The discussed topics are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened reforms in teaching techniques and methodologies, behavioral aspects of teachers with students, new skill sets, evaluation tools , role of teachers in OBE ,national education policy (NEP)-2020.This will definitely helpful to participants in teaching-learning activity.

Outcome No.	Faculty Development Program Outcome
1	Understand reforms in teaching techniques and methodologies and apply in teaching- learning process.
2	Understand new skills and apply in teaching-learning process.
3	Understand behavioral aspects of teachers with students and apply while dealing with students.
4	Understand innovative teaching aids (digital skills) and apply teaching-learning process.
5	Understand recommendations of national education policy (NEP)-2020

6	Understand role of teachers in OBE and implement while dealing with educational activity.
7	Understand different evaluation tools and map with student performance.
8	Implement outcome based education in their institute.
9	Understand role professional bodies in OBE and takes benefit of the same for student development.

Co-Ordinators	<b>Dr.Manjusha Patil</b> (Assistant Professor, Department of Engineering Science).
	<b>Mr.S.D.Bhourgunde</b> (Assistant Professor, Department of Engineering Science).
<b>Convener</b>	<b>Dr.Swati Godse</b> , HOD, Department of Engineering Science
Principal	Dr.T. K. Nagaraj, Principal, BSIOTR, Wagholi, Pune.



**FE HOD**  
**Dr. Swati Godse**



**Principal**  
**Dr. T. K. Nagaraj**





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Ph : 020-067335108, 65217050, 67335100

Telefax : 020-67335100

Website : www.jspm.edu.in / www.bslotr.org

EN 6311 / CEGP-013100



Prof. Dr. T. J. Sawant  
B.E. (Elec.) PGDM, Ph.D  
Founder Secretary

Dr. T.K. Nagaraj  
ME. (Civil Engg), Ph.D (Civil Engg)  
LMISTE, LMIGS, LMIRC  
LMISRM TT, LMIE  
Principal

JSPM/BSIOTR/16226

JSPM Corporate Office, Pune

Date: 10/5/2023 BSIOTR

ward No: 42452 Mr. Bhosale sir

Sub: - Request to release Remuneration of Industry Expert for Conduction of Six days FDP on GD & T by Mechanical Dept.

Respected Sir,

With reference to above subject the department of Mechanical Engineering has Conducted Six days FDP on GD & T through Industry resource person (ASHFAQUE alam Siddiqui). The details are as follows.

Sr	Name of Resource Person	Designation	Amount Sanctioned for six days	Account Details of Resource person
1	ASHFAQUE alam Siddiqui	Technical Director Silhouettez	21,600/-	Saving Account No. 03212401031980 IFSC - DCBL0000032 Bank DCBL Aurangabad branch

We kindly request you to release the remuneration for the expert.

Yours faithfully

Dr. P.S. Kachare  
H.O.D.

Dr. Arun Patil  
Convenor

Dr. T.K. Nagaraj  
Principal  
PRINCIPAL

CAMPUS DIRECTOR  
Jayawant Shikshan Prasarak Mandal's  
Wagholi, Pune - 412 207.

Encl:

Sr	Description	Page No.	Item
1	FDP Proposal	1	FDP Schedule
2	FDP Report	8	FDP Glimpses
3	FDP Committee Members	9	FDP List of Registered Participants
4	FDP Brouchure	10	FDP Certificate
5	FDP Invitation Letter	11	FDP Exercises for Participants
6	FDP Resource person CV	12	FDP Tests for Participants

HOD - Mech  
To look into it  
  
22/5/2023





JAYAWANT SHIKSHAN PRASARAK MANDAL's  
**Bhivarabai Sawant Institute of Technology & Research**



**Prof. Dr. T. J. Sawant**  
B.E. (Elec.) PGDM, Ph.D  
Founder Secretary

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Ph : 020-067335108, 65217050, 67335100  
Telefax : 020-67335100  
Website : [www.jspm.edu.in](http://www.jspm.edu.in) / [www.bsiot.org](http://www.bsiot.org)  
[EN 6311] / [CEGP-013100]

**Dr. T.K. Nagaraj**  
ME. (Civil Engg), Ph.D (Civil I)  
LMISTE, LMIGS, LMIRC  
LMISRMTT, LMIE  
Principal

## FACULTY DEVELOPMENT PROGRAM REPORT

### Introduction:

A Faculty Development Program (FDP) on GD & T was organized by the Mechanical Department for six days from 17 April 2023 to 22nd April 2023. The FDP aimed to enhance the professional and personal skills of faculty members to facilitate their overall personal and institutional development. The program was attended by 50 faculty members from various institutes.

### Day 1:

The FDP started with the inauguration ceremony. The program was started by Prof. Salwe A.M. with introduction to FDP. H.O.D. of Mechanical engineering dept. Dr.P.S.Kachare gave the welcome address and inaugurated the program. Prof.Salwe A.M. introduced Key note speaker Mr.Ashfaque Siddique. The keynote speaker gave an insightful talk on the importance of this faculty development and how it could benefit the participants. He has conducted session on form controls. The day was closed by Prof.Salwe A.M.

### Day 2:

The second day of the FDP was dedicated to Orientation controls, Datum features and datum. It was followed by Hands on session on the datum features . The day was closed by Prof.Talpe A.V.

### Day 3:

The third day of the FDP was dedicated to profile control and tolerance analysis. It was followed by practice exercise and discussions . The day was closed by Prof.Pingle A.D.

### Day 4:

The fourth day of the FDP was dedicated to runout control and composite control. The participants were also given hands-on training on different control. The day was closed by Prof.M.S.Devdhe.

### Day 5:


The fifth day of the FDP was dedicated to Inspection and measurement: Techniques and tools for measuring and verifying GD&T tolerances. It was followed by Final practice exercises and Q&A session.


### Day 6:


The last day of the FDP was dedicated to the presentation of the learnings and experiences of the participants. The program evaluation and feedback session was done by Prof.P.V.Jatti . The FDP ended with a valedictory session done by Prof.Dr.Arun Patil .Vote of thanks was done by Prof.V.A.Patil.

### Conclusion:

The FDP was a great success, and the participants found it highly informative and enriching. The program helped the faculty members to enhance their professional and personal skills, which would ultimately benefit the institution as a whole. The FDP also provided a platform for the faculty members to network with their peers and exchange ideas and experiences. The organizers of the FDP deserve credit for organizing such a comprehensive and informative program.

  
Dr.P.S.Kachare  
HOD-MECH DEPT

  
Dr. Arun Patil  
Convener

  
Dr.T.K.nagaraj  
Principal







JAYAWANT SHIKSHAN PRASARAK MANDAL'S  
**Bhivarabai Sawant Institute of Technology & Research**

(Approved by AICTE New Delhi, DTE Mumbai & Affiliated to Savitribai Phule Pune University)

Accredited with B++ Grade by NAAC

Gat No. 719/1 & 2, Wagholi, Pune-Nagar Road, Pune-412207

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Telefax : 020-67335100

Website : www.jspm.edu.in / www.bsioir.org

EN 6311 / CEGP-013100



**Dr. T.K. Nagaraj**  
ME. (Civil Engg), Ph.D (Civil Engg)  
LMISTE, LMIGS, LMIRC  
LMISRMTT, LMIE  
Principal

**Prof. Dr. T. J. Sawant**  
B.E. (Elec.) PGDM, Ph.D  
Founder Secretary

Ref No:- JSPM/BSIoT/16062/2022-23

Date: 15/03/2023

To,  
The Founder Secretary,  
JSPM Group of Institute,  
Katraj, Pune.

**Subject : Proposal for organizing 6 days Online Faculty Development Program on "GD & T/3d Printing & EV" by Mechanical Engineering Department**

Respected Sir,

With reference to above subject, the Department of Mechanical Engineering wishes to organize 6-days Online Faculty Development Program on "GD & T / 3d Printing & EV" to be scheduled from 03<sup>rd</sup> April 2023 to 08<sup>th</sup> April 2023 tentatively. For the same following are the expert speakers along with the details

Sr.	Name of the Expert	Topic to be covered	Remuneration per Hour	No of hours in Sessions	Date	Amt
1	ASHFAQUE alam siddiqui	GD & T / 3d Printing & EV	Rs. 1200.00	18 hrs	03 - 08.04.2023	21600/-
<b>Total Amount</b>						<b>21,600/-</b>

So therefore it is requested you to please allow for the same and sanction the budget for conducting the above online FDP. Registration fees of Rs.200/- will be charged per participant (fees for JSPM/TSSM faculty will be free).

FDP: 06 Days (3hrs/day) = 18 hrs  
Remuneration: 1200/hrs = 18x1200 = 21600.00  
Name of Resource person: ASHFAQUE alam siddiqui  
FDP on: GD & T / 3d Printing & EV  
Date: 03 - 08.04.2023  
Exp: 17 yrs Industry

Thanking You.

Yours Faithfully,

Dr. P.S.Kachare  
(HOD Mech Dept)

Dr. Arun Patil  
FDP Coordinator

Dr. T.K. Nagaraj  
(PRINCIPAL)  
J.S.P.M.'s Bhivarabai Sawant Institute of  
Technology & Research  
Wagholi, Pune- 412207

Dr. S.V. Admane  
(Campus Director)

Encl: 1) Content of FDP  
2) CV of Experts





**JSPMs**  
**BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND**  
**RESEARCH,**  
**WAGHOLI, PUNE**

(APPROVED BY AICTE , NEW DELHI, GOVT.OF MAHA & AFFILIATED TO PUNE UNIVERSITY)  
GAT NO.720(1) ,WAGHOLI, PUNE-NAGAR ROAD ,PUNE-412207  
PHONE NO.(020)-27051170 , FAX NO(020)27052590



**PROF. T.J.SAWANT**  
**FOUNDER SECRETARY**

**DR. T.K.Nagaraj**  
**PRINCIPAL**

**Report on**  
**Faculty Development Programme**  
**On**  
**“Geometric dimensioning and Tolerances” Organized by Department**  
**of Mechanical Engineering”**  
**at**  
**Department of Mechanical Engineering Bhivarabai Sawant Institute**  
**of Technology & Research Wagholi, Pune**

<b>Name of The Programme</b>	<b>Faculty Development Programme “Geometric dimensioning and Tolerances”</b>
<b>Date</b>	17 <sup>th</sup> April 2023 to 22 <sup>nd</sup> April 2023
<b>Mode</b>	Online
<b>Organizer</b>	Department of Mechanical Engineering Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune
<b>Programme Convenor</b>	Dr. Arun Patil, Dean Acad (BSIOTR)
<b>Programme Co-Convenor</b>	Dr.P.S.Kachare,HOD Mech(BSIOTR)
<b>Programme Co-Ordinator</b>	Asst. Prof. A.M.Salve (MECH) Asst. Prof.A.V.Talape (MECH))
<b>Participants</b>	50 Participants

The FDP aimed to enhance the professional and personal skills of faculty members to facilitate their overall personal and institutional development. The program was attended by than 50 faculty members from various institutes. The Programme also intendsto develop the knowledge of participants in the relevant field for inculcating learning values in students and guiding and monitoring their progress.

**FDP Objective:**

<b>Sr. No.</b>	<b>FDP Objective</b>
1	This FDP provides a platform to learn basics of Geometric dimensioning and Tolerances.
2	An ability to study the basics of Datum features, profile control, tolerance a analysis, runout control, composite control and inspection and measurement. Along with practice exercises.
3	An ability to understand techniques and tools for measuring and verifying GD&T tolerances.



# FDP Brochure:

**INSTITUTE**  
 Institute fulfill the aspirations of youth force, who want to best  
 nation towards prosperity through techno-economic development  
**Mission** To provide nurture and maintain an environment of high  
 academic excellence, research and entrepreneurship for all aspiring  
 students, who will prepare them to face global challenges  
 maintaining high ethical and moral standards.

- CHIEF PATRON**  
 Hon. Dr. T.J.Sawant  
 Founder Secretary, JSPM & TSSM Group of Institutes, Pune  
 Cabinet Minister (Health & Family Welfare)  
 Govt. of Maharashtra
- Hon. Mr. Rushiraj Sawant,  
 Director, JSPM and TSSM, Pune
- Hon. Mr. Giriraj Sawant,  
 Director, JSPM and TSSM, Pune
- PATRONS**
- Dr. S.V. Admane, Director, Wagholi Campus
  - Dr. T.K. Nagaraj, Principal, BSIOTR, Pune
- Advisory Committee**
- Dr. B. Rudrapati, Bule Hora University, Ethiopia
  - Dr. Pramodkumar, Jiangxi University, China
  - Dr. P. Yasa, Federal Institute, Ethiopia
  - Dr. B. Takale, Scientist, BAARC
- Convener**
- Dr. Arun Patil, Dean Acad. BSIOTR
- Co-Convener**
- Dr. P.S. Kachare, HOD Mech. BSIOTR
- Coordinators**
- Prof. A.M. Siltve, 98417 41366
  - Prof. A.V. Talupe, 90288 79228
- Organizing Committee**
- Prof. P.V. Jatti
  - Prof. V.R. Mohite
  - Prof. P.G. Patil, 98607 81617
  - Prof. V.A. Patil, 82375 67041
  - Prof. M.S. Devadhe, 88302 97720
  - Dr. A.D. Phalgade

**ABOUT US**  
 The Institute was established in 2009 under the banner of Jayawant Shikshal Prarak Mandal. It is approved by AICTE, New Delhi, DTE, and Government of Maharashtra and is affiliated to Savitribai Phule Pune University. The Institute is one of the progressive and developing Engineering College of JSPM Group of Institutes in Pune. The Institute has modern, state-of-the-art infrastructure appropriate to conduct engineering education and runs 05 under graduate (UG) programs and 02 post-graduate (PG) programs in Engineering. It has well qualified, experienced and doctorate faculties in all disciplines, engaged in teaching and research. College laboratories have modern equipment and experimental setups. Besides conventional teaching, college puts special emphasis on e-based learning and subject-oriented advanced inputs.

**About the Department:**  
 The Department of Mechanical Engineering was established in 2009 with an intake of 60 students. Present intake capacity of Mechanical Engineering for UG courses is 120. The goal of the Department is to train the students to face the challenges of ever changing technology and maintaining high ethical and moral standards. The Department organizes the workshops and seminars on advance technology for the students & faculty. In addition to this the expert lectures from senior academicians and industrialists are organized for our students. The Departmental advisory committee consisting of well-known academicians and experts from industry, guides the departments in their academic activities.

**Registration Fee**  
 For JSPM & TSSM Faculty :- Free  
 Faculty & Research Scholars :- Rs. 200/  
 Industry Participants :- Rs. 250/  
**Payment details:**  
 The registration fee is to be paid in the form of DD/online transfer/QR using the following details:  
 • Demand Draft: In favor of "JSPM Bhivarabai Sawant Institute of Technology & Research" payable at any bank in Pune.  
 • Online Transfer Details:  
**Account Name:** JSPM Bhivarabai Sawant Institute of Technology & Research  
**Account No:** 300002010211003  
**IFSC:** UBIN0536000  
 • QR Code:



**Important dates:**  
 Last date for Registration: 15th April, 2023.  
 Course dates: 17-21, April 2023.

**For Online Registration:**  
<https://forms.gle/9NreWVYNauex6hAdA>

**Whatsapp group link:**  
<https://chat.whatsapp.com/1WjnOm6z17CkR2cY9EADH>

**RESOURCE PERSON**  
**ASHFAQE ALAM SIDDIQUI**  
 Technical Director  
 Silhouettez

**ABOUT FDP**  
 In this world of emerging technology, the product should be very precise and of high quality. To manufacture a quality product, engineering drawings should be accurate and communicate precisely. GD & T, is a symbolic language used in engineering drawings, to define the allowable deviation of feature geometry. GD & T consists of dimensions, tolerances, symbols, rules and conventions that are used to communicate precisely the functional requirement of design model. GD & T assure functionality, cost effectiveness, productivity, ease of inspection and many other factors of manufacturing and inspection. GD & T standards are ASME Y14.5-2009 and ISO 1101:2012. GD & T is inbuilt in present Computer Aided Drafting software that requires the subject matter expert to design the drawings. It is to be noted that, GD & T is helpful to excel in an industry. The inclusion of this topic in the curriculum would benefit the students a lot in this context, a faculty development program on "GD & T" is designed to fill the gaps and strengthen the participants with required skills. The participants/learners will be provided with exercises and case studies to improve their understanding. It allows the learners to develop accurate drawings that would result in better product design and manufacturing.

- 1. Introduction to GD&T, Terminology, drafting Symbols, Dimensioning Styles, Rules and Concepts of GD&T
- 2. MMC, LMC, RFS and FCF
- 3. Datum (Planar, Axis and Centre Plane)
- 4. Bonus Tolerance
- 5. Virtual Condition
- 6. Resultant Condition Boundaries
- 7. Form Control, Orientation Control & Location control
- 8. Tolerance of Position
- 9. Runout and Profile Controls
- 10. Fixed and Floating Fastener
- 11. Projected Tolerance Zones & Part Tolerancing
- 12. Tolerance Analysis and Stack-up analysis
- 13. FAI, Paper Gauging and Functional Gauging

**JSPM's**  
**Bhivarabai Sawant Institute of Technology & Research**  
 NAAC Accredited & NBA Accredited - IT, E&T & Electrical Departments  
 Gat No: 720/2, Nagar Road, Wagholi, Pune, Maharashtra 412207  
 020 - 67335100, Fax: 020 - 67335108  
 Portal: <https://jspmbsiotr.edu.in>

**NATIONAL LEVEL**  
**6 DAYS FDP ON**  
**GD & T**  
 (GEOMETRIC DIMENSIONING & TOLERANCES)  
 SLOF: SIZE, LOCATION, ORIENTATION, AND FORM.

**DURATION 17-22 APRIL 2023**  
 IN ASSOCIATION WITH

**ORGANIZED BY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**Registration Form**

- Name :
- Designation :
- Institution/Industry :
- Email:
- Mobile No:
- DD/Ref No:
- Bank: \_\_\_\_\_ Date: \_\_\_\_\_  
 Amount: \_\_\_\_\_
- Address for Correspondence:
- Educational Qualification:
- Experience (in years): \_\_\_\_\_  
 Place: \_\_\_\_\_ Date: \_\_\_\_\_

Signature of the Applicant \_\_\_\_\_

Declaration The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinator in case, I am unable to attend the course.



## Inaugural Session:

Inaugural Session	
Date	17 <sup>th</sup> April 2023
Session	One
Time	2:00 PM to 2.30 PM

The esteemed personalities present on the Inauguration of the Programme:

Mr. Ashfaqe Siddique	Technical Director, Silhouettez	Resource Person
Dr. Arun Patil	Dean Acad (BSIOTR)	Host
Dr. T.K. Nagaraj	Principal, BSIOTR	Host
Dr. P.S. Kachare	HOD, Mechanical	Host



In welcome speech, The FDP started with the inauguration ceremony. The program was started by Prof.Salwe A.M. with introduction to FDP .The H.O.D. of Mechanical engineering dept.Dr.P.S.Kacahre gave the welcome address and inaugurated the program.Prof.Salwe A.M.introduced a Key note speaker Mr.Ashfaque Siddique. The keynote speaker gave an insightful talk on the importance of this faculty development program and how it could benefit the participants. He has conducted session on form controls.The day was closed by Prof.Salwe A.M.

The screenshot shows a Zoom meeting interface. The main content is a slide titled "Geometric Dimensioning and Tolerancing (GD&T) Course content". The slide lists 11 sections:

- Section 1: Introduction and Basics of Engineering drawing
- Section 2: Need for GD&T.
- Section 3: Introductory Concepts of GD&T
- Section 4: Datums
- Section 5: Bonus tolerance and Virtual condition
- Section 6: Form Control
- Section 7: Orientation control
- Section 8: Location control
- Section 9: Runout
- Section 10: Profile
- Section 11: Datum feature modifier- Datum Shift

The slide also features the Silhouette logo in the top right corner. The Zoom interface includes a top bar with "Recording" and "View Options", a right-hand panel with a "Participants (20)" list, and a bottom toolbar with various meeting controls like "Audio", "Start Video", "Security", "Participants", "Chat", "Share Screen", "Pause/Stop Recording", "Breakout Rooms", "Raise Hand", "Apps", and "More".

The screenshot shows a Zoom meeting interface with a slide titled "Geometric Dimensioning and Tolerancing (GD&T) What should a design engineer know?". The slide lists several key questions for a design engineer:

- How to read a drawing with GD&T and make sense of the annotations ?
- How to visualize tolerance zones for each geometrical control?
- How to calculate tolerances for each geometrical control as opposed to actual parts ? Verify as per drawing?
- How to convert a co ordinate tolerance drawing to GD&T drawing?
- How to setup GD&T scheme for a part or assembly from CAD based on its functional requirements ?

The slide concludes with the text: "We will learn these concepts and more with examples". The slide features the Silhouette logo in the top right corner. The Zoom interface includes a top bar with "Recording" and "View Options", a right-hand panel with a "Participants (20)" list, and a bottom toolbar with various meeting controls like "Audio", "Start Video", "Security", "Participants", "Chat", "Share Screen", "Pause/Stop Recording", "Breakout Rooms", "Raise Hand", "Apps", and "More".



Date	17th April 2023
Session	Two
Topic	Introduction to GD&T, Terminology, Dimensioning styles, Drafting symbols
Resource Person	Mr. Ashfaque Siddique, Technical Director, Silhouettez
Time	2.30 PM To 4.15PM

**Geometric Dimensioning and Tolerancing (GD&T)**

**Course content**

- Section 1: Introduction and Basics of Engineering drawing
- Section 2: Need for GD&T.
- Section 3: Introductory Concepts of GD&T
- Section 4: Datums
- Section 5: Bonus tolerance and Virtual condition
- Section 6: Form Control
- Section 7: Orientation control
- Section 8: Location control
- Section 9: Runout
- Section 10: Profile
- Section 11: Datum feature modifier- Datum Shift

The screenshot also shows a list of participants on the right side of the Zoom window, including Dr. Ashfaque Siddique (Co-host), Prof. Atul Talapure, and others.

**Geometric Dimensioning and Tolerancing (GD&T)**

**Toleranced engineering drawing**

Material: Aluminium 6061  
Note on general tolerances

The manufacturer can then decide how this part is to be made Sets up the machine tool to make the part.

The traditional way of giving specifications and tolerances to parts

**Co-ordinate tolerancing**

The screenshot also shows a list of participants on the right side of the Zoom window, including JSPM (Host, me), Ashfaque (Co-host, guest), and others.

Mr. Ashfaque Siddique has delivered an interactive lecture on "Introduction to GD&T, Terminology". In this session participants were learned the basics of GD&T, importance and need of GD&T,



Date	17th April 2023
Session	Three
Topic	Form controls, Rules and concepts of GD&T, Q & A
Resource Person	Mr. Ashfaque Siddique, Technical Director, Silhouettez
Time	4.15 PM To 5:00 PM

The screenshot shows a Zoom meeting interface. The main content is a slide titled "Geometric Dimensioning and Tolerancing (GD&T) Process of applying GD&T on engineering drawing for a Design engineer". The slide content is as follows:

**Detailed 3D CAD model (after Detail design phase in product development)**

↓

**Making Basic Engineering Drawing**  
How to make an engineering drawing?  
How to Convert 3D CAD model into a 2D drawing with views (1<sup>st</sup> or 3<sup>rd</sup> angle projection) Along with specifications and notes as per drawing standard. Using coordinate tolerancing

↓

**Apply GD&T scheme on the 2D drawing**

1. Datum scheme
2. Tolerance values
3. Types of geometric controls
4. Feature control frames
5. Modifiers?

→ **Final drawing**

The slide also features the Silhouettez logo and a small diagram of a 3D CAD model being converted to a 2D drawing. The Zoom interface shows 22 participants and a search bar for finding a participant.

The screenshot shows a Zoom meeting interface. The main content is a slide titled "Geometric Dimensioning and Tolerancing (GD&T) Deciding tolerance for an application / for a dimension?". The slide content is as follows:

**Deciding the tolerance for a dimension is not a one off activity**

It has to be revisited during the design process especially for critical applications

1. First arrive at a tolerance range depending on the manufacturing process and known generic precision of the process.  
Machining, forging, casting or sheet metal forming
2. Apply a generic tolerance from International tolerance grade table ISO 286
3. If it's a dimension related to a mating part then deciding the fit is an important step. Tolerances would be defined based on that fit
4. If there are multiple parts in assembly. Tolerance stackup analysis would be necessary to ascertain if tolerances considered are Ok.
5. Verify decided tolerance with process capability studies during actual production.

The slide also features the Silhouettez logo. The Zoom interface shows 17 participants and a search bar for finding a participant.

Mr. Ashfaque Siddique has delivered an interactive lecture on "Form controls Rules and concepts of GD&T," along with practice exercise for participants. In this session participants were learned the different Form controls like straightness, flatness, roundness, circularity, cylindricity along with practice exercise.

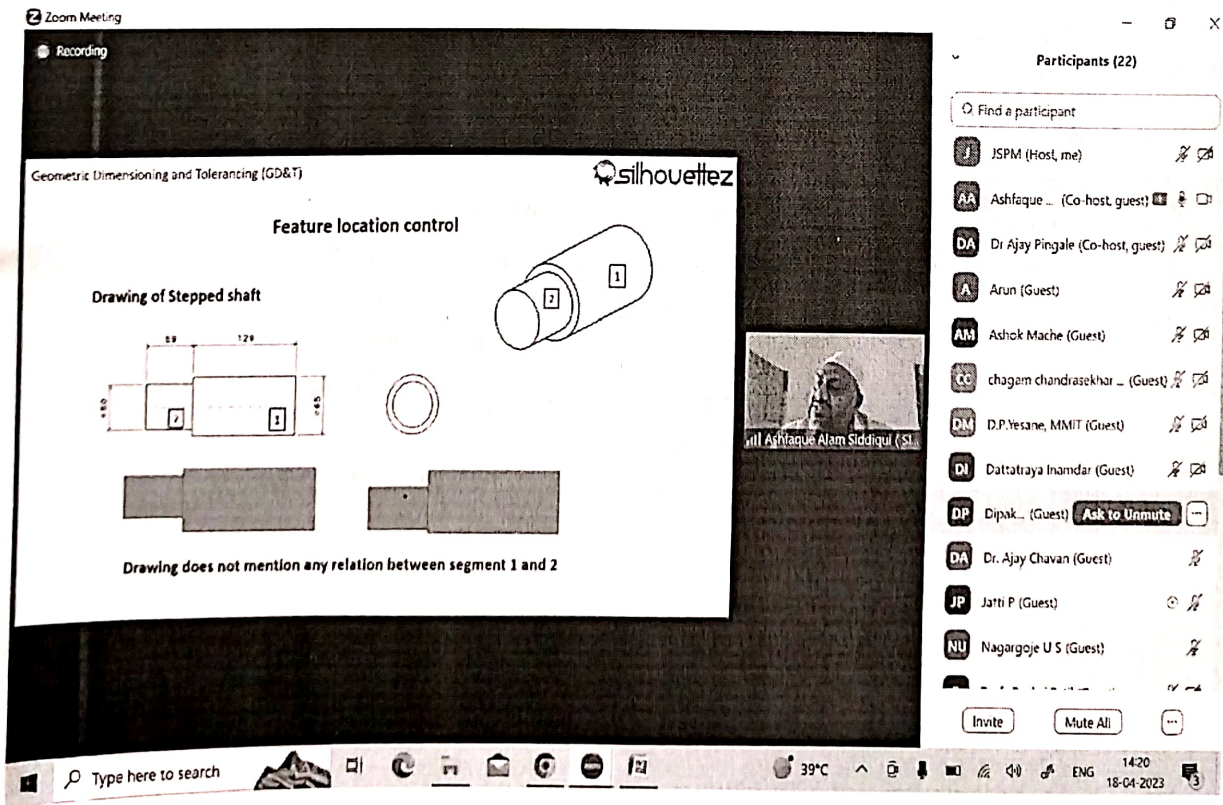
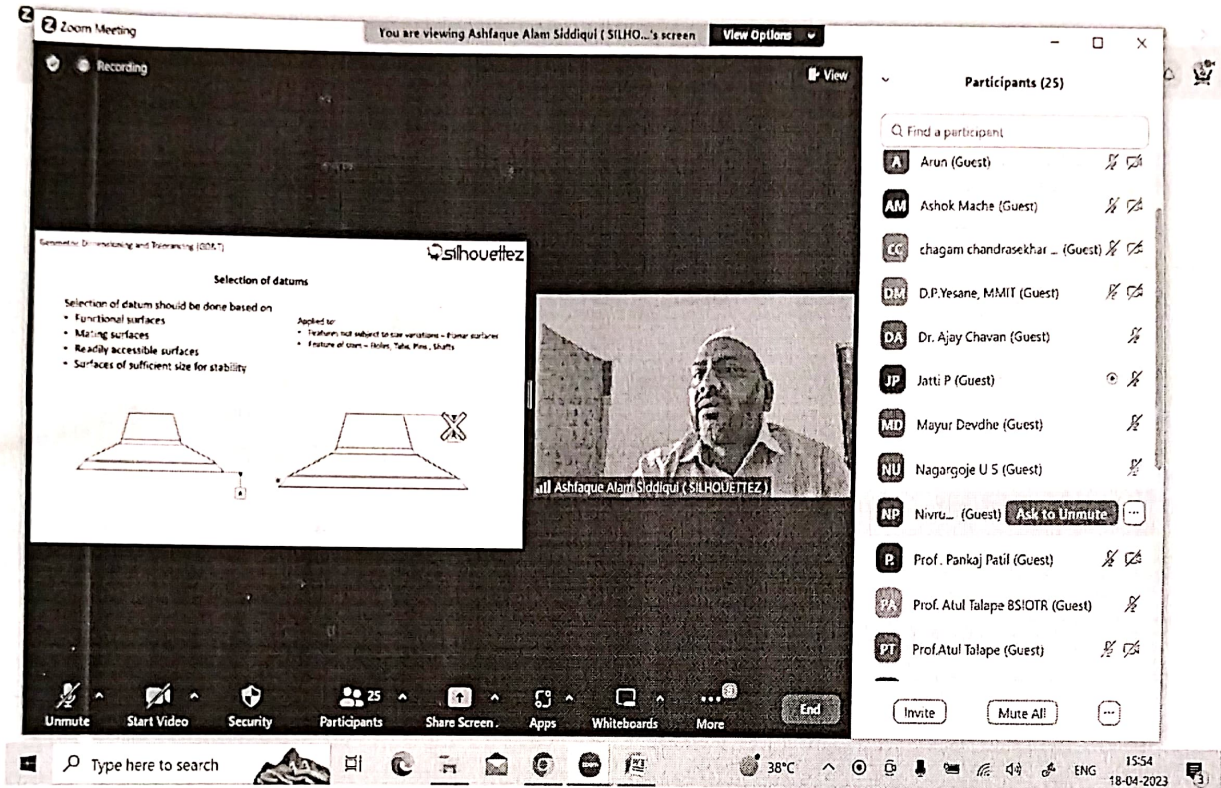


Date	18th April 2023
Session	One
Topic	Orientation controls
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	2:00 PM To 3:15 PM

Mr.Ashfaque Siddique has delivered an interactive lecture on "Orientation controls" along with practice exercise for participants. In this session participants were learned the different Orientation controls like perpendicularity,parallelism,angularity with practice exercise.



Date	18th April 2023
Session	Two
Topic	Datum features and Datum reference frames
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	3:15 PM To 4:15 PM



Mr.Ashfaque Siddique has delivered an interactive lecture on "Datum features and Datum reference frames" along with practice exercise for participants. In this session participants were learned how to use Datum features and Datum reference frames with practice exercise.



Date	18th April 2023
Session	Three
Topic	Profile controls
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	4:15PM To 5.00 PM

Geometric Dimensioning and Tolerancing (GD&T) silhouettez

### What is a feature?

**Feature:** feature is a physical portion of a part, such as a flat surface, pin, hole, tab, or slot.

Anything which is not physical is not a feature Centre line, centre plane

Date	19th April 2023
Session	One
Topic	Tolerance Analysis
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	2.00 PM To 3:15 PM

Geometric Dimensioning and Tolerancing (GD&T) silhouettez

### Dimensions – which locate features, which define size

- which locate features,
- which define orientation
- which define size

**Example 1**

Mr.Ashfaque Siddique has delivered an interactive lecture on “Profile controls” along with practice exercise for participants. In this session participants were learned different Profile controls,profile of a line and profile of a surface with practice exercise.

Date	19th April 2023
Session	Two
Topic	Tolerance Analysis
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	3:15 PM To 4.15 PM

Geometric Dimensioning and Tolerancing (GD&T)

silhouettez

### Concept of tolerance

- The manufacturer cannot make the part with perfect dimensions mentioned in drawing.
- There have to be limits within which the specification varies.
- Those degrees of variations from the design value is called tolerance.
- The variation will be for all characteristics related to the design – size, shape, orientation, location
- Variations in manufacturing process with respect to Machine, Method, Material and Operators can cause variations in the output of the part during manufacturing

The Tolerance is generally decided by keeping in mind

- Functional requirements
- Manufacturing constraints

Tolerance  
20 ± 1

Date	19th April 2023
Session	Three
Topic	Tolerance Analysis Assignment Hands-on practice
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	4.15 PM to 5.00 PM

Geometric Dimensioning and Tolerancing (GD&T)

silhouettez

### Example of Fit Transition fit

Assembly

$60 \pm 0.5$        $60 \pm 0.5$

	Two cases :	
Max size of shaft	60.5	
Min size of shaft	59.5	1) Largest shaft with smallest hole will cause interference 60.5      59.5
Max size of hole	60.5	
Min size of hole	59.5	2) Smallest shaft with Largest hole will cause Clearance gap 59.5      60.5

Can be a clearance or an interference hence its transition fit

Mr.Ashfaque Siddique has delivered an interactive lecture on “Tolerance Analysis” along with practice exercise for participants. In this session participants were learned how and why tolerance analysis is done with practice exercise.



Date	20th April 2023
Session	One
Topic	Runout controls
Resource Person	Mr.Ashfaq Siddique, Technical Director.Silhouettez
Time	2:00 PM To 3:15 PM

**Geometric Dimensioning and Tolerancing (GD&T)**

### Inspecting straightness

Part is oriented parallel to the running axis of the Dial indicator.

- Dial indicator is run along the line element in the direction required for straightness control
- If the Full Dial indicator moment – The maximum movement of the dial exceeds the straightness control tolerance
- The surface does not meet specifications

**Participants (14)**

- Waiting Room (1)
- Joined (14)
- JSPM (Host, me) [Unmute]
- Ashfaq ... (Co-host, guest)
- Mayur Devche (Co-host, guest)
- Annapurna Keli (Guest)
- Anushri (Guest)
- Ashok Mache (Guest)
- chagam chandrasekhar ... (Guest)
- Dattatraya Inamdar (Guest)
- Mayur (Guest)

**Geometric Dimensioning and Tolerancing (GD&T)**

### Deciding tolerance for an application / for a dimension ?

Deciding the tolerance for a dimension is not a one off activity  
It has to be revisited during the design process especially for critical applications

1. First arrive at a tolerance range depending on the manufacturing process and known generic precision of the process.  
Machining , forging, casting or sheet metal forming
2. Apply a generic tolerance from international tolerance grade table ISO 286
3. If it's a dimension related to a mating part then deciding the fit is an important step . Tolerances would be defined based on that fit
4. If there are multiple parts in assembly . Tolerance stackup analysis would be necessary to ascertain if tolerances considered are Ok .
5. Verify decided tolerance with process capability studies during actual production.

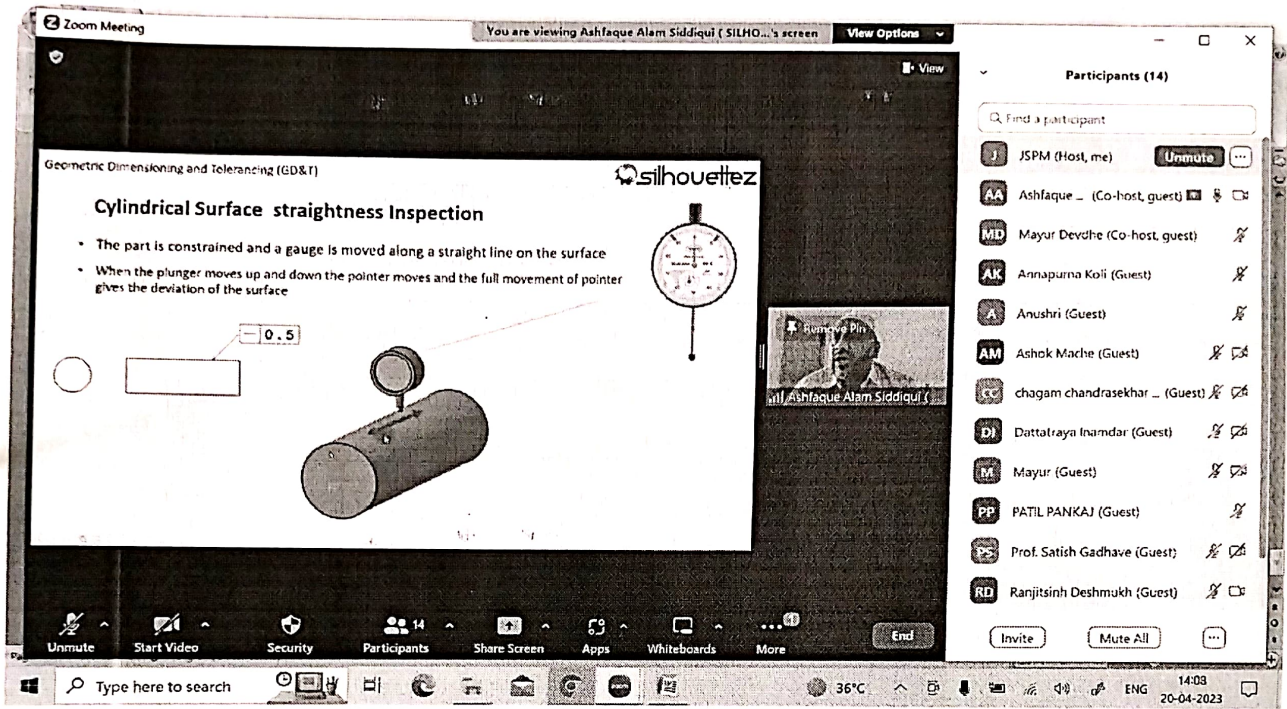
**Participants (27)**

- Dr P S KACHARE
- Dr Ranjitsinh Deshmukh
- Jati P
- Mayur Devche
- Mayuri Mishra
- Prof . Parikaj Patel
- Prof. Ashok Mache
- Prof. Satish Gaothare
- Prof.atal Talape
- sachin malave
- Shelkar Vaghmode
- Sushil Ray
- Vishnu Rajee
- Vishnu Patel C201
- Ajay Pingale
- ANINDITHA REVIVAL
- Annapurna Keli
- Snehal Gosavi

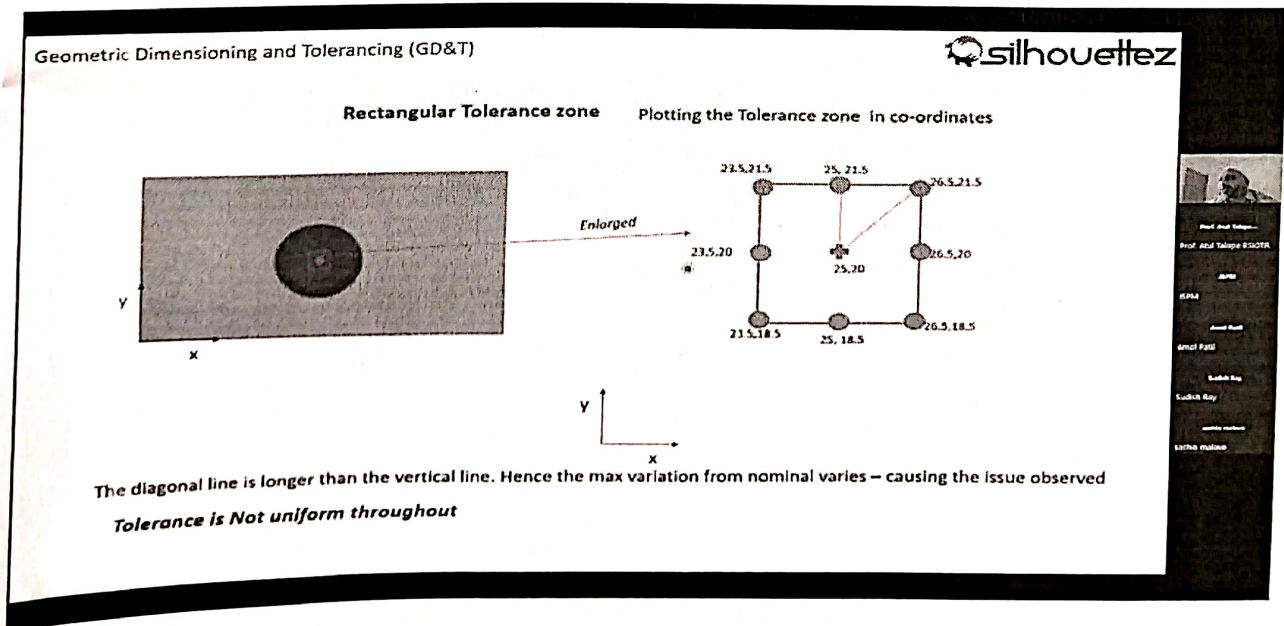
Mr.Ashfaq Siddique has delivered an interactive lecture on “runout controls” along with practice exercise for participants. In this session participants were learned about different runout controls like Total runout and circular runout, concentricity and symmetry with practice exercise.



Date	20th April 2023
Session	Two
Topic	Composite controls
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	3:15 PM To 4.15PM



Date	20th April 2023
Session	Two
Topic	Composite controls and Q & A Session
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	4:15 PM To 5.00PM



Mr.Ashfaque Siddique has delivered an interactive lecture on “composite controls” along with practice exercise for participants. In this session participants were learned about composite controls with practice exercise.



Date	21th April 2023
Session	One
Topic	Inspection and Measuremnets
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	2:00 PM To 3:15 PM

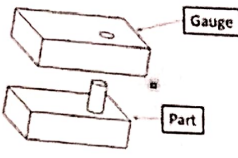
Geometric Dimensioning and Tolerancing (GD&T) silhouettez

### Inspection

Major activity in product quality verification

**Attribute gauges (Functional gauging)**

A gauge which is assembled with part  
Verifies the Dimension of a part is within limits.  
No-assembly state means part is not within specifications

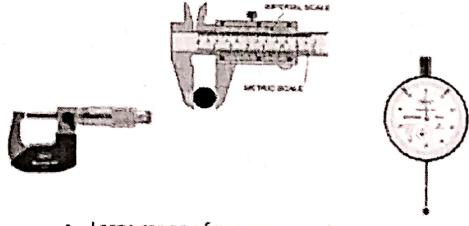


- Within a specific tolerance range
- Fast and simple
- No moving parts
- Low error

Generally used for position , orientation

**Variable gauges**


A gauge which gives the output as a measured value  
That measured value is checked whether it lies within specifications or not



- Large range of measurement
- Precise measurements
- Flexible
- Prone to error

Generally used for size and form.

Zoom Meeting You are viewing Mayur Devdhe's screen View Options


**JSPM's**  
**Bhivarabai Sawant Institute of Technology & Research,**  
 Wagholi, Pune

Department of Mechanical Engineering  
 Cordially Invites you for the  
 5<sup>th</sup> day (21<sup>th</sup> April 2023) of FDP  
 on  
**GEOMETRIC DIMENSIONING & TOLERANCES**  
 From 17 April 2023 to 22 April 2023  
 By  
**ASHFAQUE ALAM SIDDIQUI**  
 Technical Director  
 Silhouettez

Participants (10)

Find a participant

- JSPM (Host, me)
- MD Mayur Devdhe (Co-host, guest)
- AA Ashfaque Alam Siddiqui (Guest)
- P Prof. Pankaj Patil (Guest)
- A Anushri (Guest)
- CC CHAGAM CHANDRASEK... (Guest)
- GS Gururaja Sharma (Guest)
- SR Sudish Ray (Guest)
- SG Swapnil Gosavi (Guest)
- JP Jatti P (Guest)

Unmute Start Video Security Participants 10 Share Screen Apps Whiteboards More End

14:03 21-04-2023

Mr.Ashfaque Siddique has delivered an interactive lecture on “Inspection and measurements and its techniques and tools for measuring and verifying GD&T tools” along with practice exercise for participants. In this session participants were learned about different inspection and measurement techniques and tools used for inspection and measuring and how to verify with practice exercis



Date	21th April 2023
Session	Two
Topic	Review of all GD&T concepts and principles
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	3:15 PM To 4.15 PM

Geometric Dimensioning and Tolerancing (GD&T) silhouettez

### Process of applying GD&T on engineering drawing for a Design engineer

Detailed 3D CAD model (after Detail design phase in product development)

↓

**Making Basic Engineering Drawing**  
 How to make an engineering Drawing?  
 How to Convert 3D CAD model into a 2D drawing with views (1<sup>st</sup> or 3<sup>rd</sup> angle projection) Along with specifications and notes as per drawing standard . Using co ordinate tolerancing

↓

**Apply GD&T scheme on the 2D drawing**

1. Datum scheme
2. Tolerance values
3. Types of geometric controls
4. Feature control frames
5. Modifiers?

→ Final drawing

Date	21th April 2023
Session	Two
Topic	Review of all GD&T concepts and principles,Hands-on practice
Resource Person	Mr.Ashfaque Siddique, Technical Director.Silhouettez
Time	4:15 PM To 5.00PM

Zoom Meeting You are viewing Ashfaque Alam Siddiqui (SILHQ...)'s screen

Geometric Dimensioning and Tolerancing (GD&T) silhouettez

### Runout

Runout is applied on surfaces of rotating parts generally controlling them with respect to a rotational datum axis. Surface can be around the axis or perpendicular to axis.

**Circular Runout**  
 Runout: controls circular elements on the surface with respect to the datum axis.

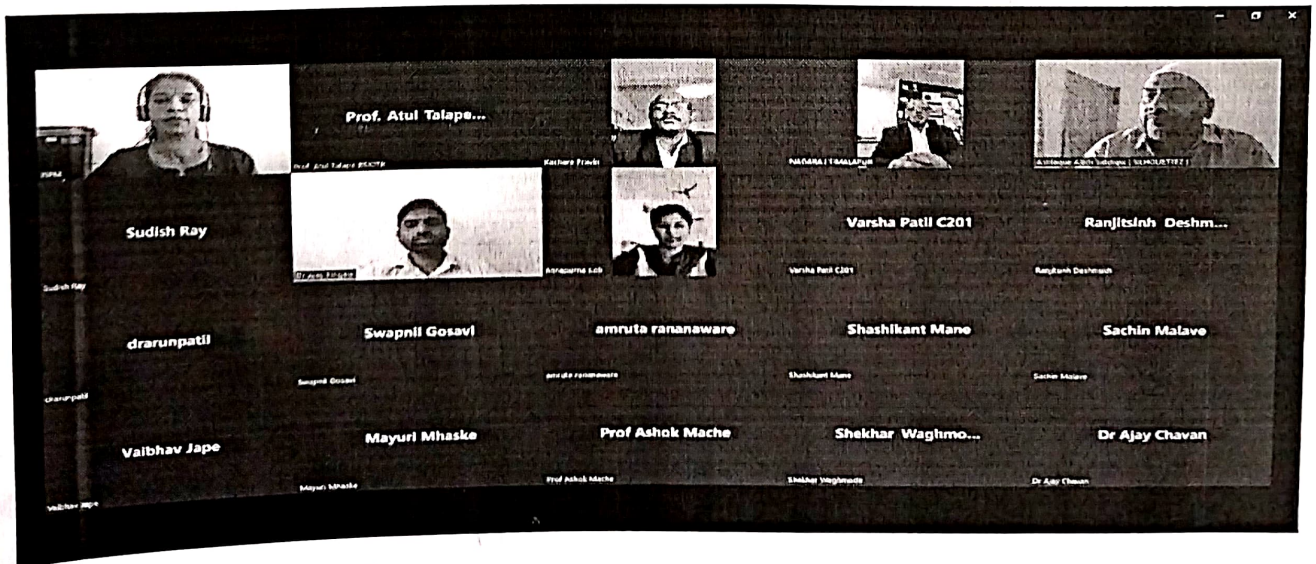


Mr. Ashfaque Siddique has reviewed all GD&T concepts and principles and discuss with participants regarding questions, doubts and clarify concepts in GD&T.

Date	22th April 2023
Session	One
Topic	Hands -on training ,Discussion on Assignments and Q & A Session
Resource Person	Mr. Ashfaque Siddique, Technical Director. Silhouettez
Time	2:00 PM To 4.30PM



Date	22th April 2023
Session	Two
Topic	Valedictory
Time	4:30 PM To 5.00PM





The esteemed personalities present on the Valedictory of the Programme:

Dr. P.S.Kachare	HOD, Mechanical Department, BSIOTR	HOD
Dr. A.G. Patil	Dean, BSIOTR	Host
Mr. Ashfaque Siddique	Technical Director, Silhouettez	Resource Person

All the personalities appreciated the department for organizing the FDP. The program evaluation and feedback session was done by Prof. P.V. Jatti. The FDP ended with a valedictory session done by Prof. Dr. Arun Patil. The program was ended with vote of thanks by Prof. V.A. Patil., Asst. Prof., Mechanical Dept., JSPM'S BSIOTR & Coordinator of the FDP. The FDP received a lot of positive feedback from faculty members, from many universities of India. There were 50 enthusiastic participants in total, who took part in the 6-day online FDP. Each session was of Minimum 60 minutes & Maximum 90 minutes and included open questions, answer session. Join Zoom Meeting <https://us02web.zoom.us/j/88513120108?pwd=aXNIeHR1RFBLem1SME9JVdN2RFIsZz09>; feedback links were shared, MCQ Test was conducted at the end of FDP. The registered participants were engaged in a special WhatsApp group. The recordings are being uploaded on the Google Drive. 50 E-certificates were awarded to all registered participants.

**Sample FDP Certificate:**



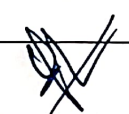

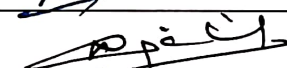
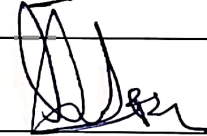
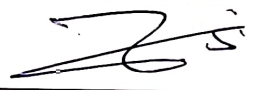
**FDP Outcome:**

All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advance technologies in this domain. This in turn will help in industrial activity.

Sr. No.	FDP Outcome
1	Understand basic concepts of GD&T and principles.
3	Understand Orientation controls and Datum Feature and Datum reference frame.
2	Analyze tolerance and different profile controls.
4	Understand runout controls and composite controls.
5	Study of different techniques and tools for measuring and verifying GD&T tools



Sr. No.	FDP Outcome	PO	PSO
1	Understand basic concepts of GD&T and principles.	PO1	PSO1
2	Understand Orientation controls and Datum Feature and Datum reference frame.	PO1	PSO1
3	Analyze tolerance and different profile controls.	PO2	PSO2
4	Understand runout controls and composite controls.	PO1	PSO1
5	Study of different techniques and tools for measuring and verifying GD&T tools	PO2, PO3, PO4, PO5	POS3

Programme Co-Ordinator	Asst. Prof. A.M.Salve (MECH)	
	Asst. Prof. A.V. Talape (MECH)	
Programme Convenor	Dr. Arun Patil, Dean Acad (BSIOTR)	
Programme Co-Convenor	Dr. P.S. Kachare, HOD Mech (BSIOTR)	
Principal	Dr. T. K. Nagaraj, Principal, (BSIOTR)	



JAYAWANT SHIKSHAN PRASARAK MANDAL'S

# Bhivarabai Sawant Institute of Technology & Research



(Approved by AICTE New Delhi, DTE Mumbai & Affiliated to Savitribai Phule Pune University)

Accredited with B++ Grade by NAAC

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Ph : 020-067335108, 65217050, 67335100

Telefax : 020-67335100

Website : [www.jspm.edu.in](http://www.jspm.edu.in) / [www.bsiotr.org](http://www.bsiotr.org)

EN 6311 / CEGP-013100

**Prof. Dr. T. J. Sawant**  
B.E. (Elec.) PGDM, Ph.D  
Founder Secretary

**Dr. T.K. Nagaraj**  
ME. (Civil Engg), Ph.D (Civil Engg)  
LMISTE, LMIGS, LMIRC  
LMISRTT, LMIE  
Principal

## COMMITTEE MEMBERS FOR FDP 6 Days.FDP on GD&T

Date: 02/07/20

### MARKETING & PUBLICITY

- Dr. Ajay Pingale
- Mr M.S.Devdhe

#### Tasks to be performed

1. Collect email id of all the institutions under AICTE – India
2. Draft a letter of invitation/deputation of faculty for FDP
3. Send the Invitation Letter to all institutes along with brochure
4. Focus more on reaching to all the colleges ( BE & Diploma) in Maharashtra
5. At least 4 registrations from each faculty of Department is expected

### CERTIFICATE & REGISTRATION

- Mr. A.V.Talape
- Mr. P.G.Patil

#### Tasks to be performed


1. Download all the registered candidates and prepare excel sheet with all the details
2. Acknowledge their registration through mail
3. Prepare certificate to be issued to all the participants
4. Issue certificates to all the participants
5. Help for any query for registration/ certificate etc.
6. Attendance record of all the participants for each day of FDP

### INAGURATION AND INTRODUCTION


- Mrs. A.M.Salve
- Mrs. V.A.Chitale

#### Tasks to be performed

1. Arrangement of online platform with all necessary tools
2. Prepare schedule of Inauguration, welcome address and conclusion of session day wise
3. Prepare schedule for valedictory
4. Coordinate with the participants and Guest

  
**Dr.P.S.Kachare**  
HOD-MECH DEPT

  
**Dr. Arun Patil**  
Convenor

  
**Dr.T.K.nagaraj**  
Principal





Satisfy the aspirations of youth force, who want to lead nation towards prosperity through techno-economic development

**MISSION:** To provide, nurture and maintain an environment of high academic excellence, research and entrepreneurship for all aspiring students, which will prepare them to face global challenges maintaining high ethical and moral standards.

**CHIEF PATRON**

**Hon. Dr. T.J.Sawant**

Founder Secretary, JSPM & TSSM Group of Institutes, Pune  
Cabinet Minister (Health & Family Welfare)

Govt. of Maharashtra

**Hon. Mr. Rushiraj Sawant,**

Director, JSPM and TSSM, Pune

**Hon. Mr. Giriraj Sawant,**

Director, JSPM and TSSM, Pune

**PATRONS**

- Dr. S.V.Admane, Director, Wagholi Campus
- Dr. T.K.Nagaraj, Principal, BSIOTR, Pune

**Advisory Committee**

- Dr. R. Rudrapati, Bule Hora University, Ethiopia
- Dr. Pramodkumar, Jiangxi University, China
- Dr. P.Vasu, Fedral Institute, Ethiopia
- Dr. S. Takale, Scientist, BAARC

**Convener**

- Dr. Arun Patil, Dean Acad, BSIOTR

**Co-Convener**

- Dr. P.S.Kachare, HOD Mech, BSIOTR

**Coordinators**

- Prof. A.M.Salve, 98817 61366
- Prof. A.V.Talape, 90288 79278

**Organizing Committee**

- Prof. P.V.Jatti
- Prof. V.R.Mohite
- Prof. P.G.Patil, 98607 31617
- Prof. V.A.Patil, 82375 67041
- Prof. M.S.Devadhe, 88302 37729
- Dr. A.D.Pingale

**Registration Fee**  
For JSPM & TSSM Faculty :- Free  
Faculty & Research Scholars :- Rs. 200/  
Industry Participants : Rs. 250/  
Payment details:  
The registration fee is to be paid in the form of DD/online transfer/QR using the following details:

- Demand Draft: In favor of "JSPM Bhivarabai Sawant Institute of Technology & Research" payable at any bank in Pune.
- Online Transfer Details:

Account Name: JSPM Bhivarabai Sawant Institute of Technology & Research

Account No: 360002010211063

IFSC: UBIN0536008

- QR Code:



**Important dates:**  
Last date for Registration: 15th April, 2023.  
Course dates: 17-21, April 2023.

**For Online Registration:**  
<https://forms.gle/9NrcWYNfaueX6hAda>

**Whatsapp group link:**  
<https://chat.whatsapp.com/liwjmOm6zi7CKr2cy9EADH>

RESOURCE PERSON

**ASHFAQE ALAM SIDDIQUI**

Technical Director

Silhouettez

**Bhivarabai Sawant Institute of Technology & Research**  
NAAC Accredited & NBA Accredited - IT, E&TC & Electrical Departments

Gat No: 720/2, Nagar Road, Wagholi, Pune,  
Maharashtra 412207

020 - 67335100, Fax: 020 - 67335108

Portal: <https://jspmbsiotr.edu.in>



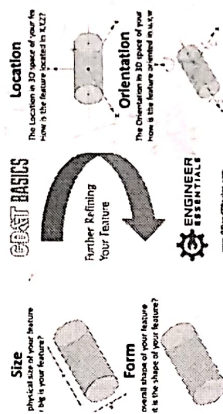
NATIONAL LEVEL

**6 DAYS FDP ON**

**GD & T**

(GEOMETRIC DIMENSIONING & TOLERANCES)

**SLOF: SIZE, LOCATION, ORIENTATION, AND FORM.**



**DURATION 17-22 APRIL 2023**  
IN ASSOCIATION WITH



ORGANIZED BY  
**INSTITUTE OF MECHANICAL ENGINEERING**



## ABOUT FDP

In this world of emerging technology, the product should be very precise and of high quality. To manufacture a quality product, engineering drawings should be accurate and communicate precisely. GD & T, is a symbolic language used in engineering drawings to define the allowable deviation of feature geometry. GD & T consists of dimensions, tolerances, symbols, rules and conventions that are used to communicate precisely the functional requirement of design model. GD & T elicits functionality, cost effectiveness, producibility, ease of inspection and many other factors of manufacturing and inspection. GD & T standards are ASME Y14.5-2009 and ISO 1101:2012. GD & T is inbuilt in present Computer Aided Drafting software that requires the subject matter expert to design the drawings. It is to be noted that, GD & T is helpful to excel in an industry. The inclusion of this topic in the curriculum would benefit the students a lot. In this context, a faculty development program on "GD & T" is designed to fill the gaps and strengthen the participants with required skills. The participants/learners will be provided with exercises and case studies to improve their understanding. It allows the learners to develop accurate drawings that would result in better product design and manufacturing.

### Contents of the course:

- 1. Introduction to GD&T, Terminology, drafting Symbols, Dimensioning Styles, Rules and Concepts of GD&T
- 2. MMC, LMC, RFS and FCF
- 3. Datums ( Planar, Axis and Centre Plane)
- 4. Bonus Tolerance
- 5. Virtual Condition
- 6. Resultant Condition Boundaries
- 7. Form Control, Orientation Control & Location control
- 8. Tolerance of Position
- 9. Runout and Profile Controls
- 10. Fixed and Floating Fastener
- 11. Projected Tolerance Zones & Part Tolerancing
- 12. Tolerance Analysis and Stack-up analysis
- 13. FAI Process Control

## Registration Form

1. Name :
2. Designation :
3. Institution/Industry :
4. Email :
5. Mobile No :
6. DD/Ref No :
- Bank : \_\_\_\_\_ Date: \_\_\_\_\_
- Amount: \_\_\_\_\_
7. Address for Correspondence :
8. Educational Qualification :
9. Experience (in years): \_\_\_\_\_ Date: \_\_\_\_\_
- Place: \_\_\_\_\_

Signature of the Applicant

Declaration The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

JSPM's

Bhivarabai Sawant Institute  
of Technology & Research





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[EN 6311] / [CEGP-013100]



Dr. T.K. Nagaraj

ME. (Civil Engg), Ph.D (Civil Engg)

LMISTE, LMIGS, LMIRC

LMISRM, LMIE

Principal

Prof. Dr. T. J. Sawant  
B.E. (Elec.) PGDM, Ph.D  
Founder Secretary

Date: 10/04/2023

Dear Sir/Madam,  
Greetings.....!

With immense pleasure, we would like to inform you that the Department of Mechanical Engineering, JSPM's Bhivarabai Sawant Institute of Technology and Research, Wagholi, Pune is organizing Faculty Development Program on "Geometric Dimensioning & Tolerances (GD&T)" during 17-22 April 2023 in online mode.

The FDP is aimed at imparting knowledge and training on the fundamental concepts tentatively related to:

- ✓ Introduction to GD&T, Terminology, drafting Symbols, Dimensioning Styles, Rules and Concepts of GD&T
- ✓ MMC, LMC, RFS and FCF
- ✓ Datums ( Planar, Axis and Centre Plane)
- ✓ Bonus Tolerance
- ✓ Virtual Condition
- ✓ Resultant Condition Boundaries
- ✓ Form Control, Orientation Control & Location control
- ✓ Tolerance of Position
- ✓ Runout and Profile Controls
- ✓ Fixed and Floating Fastener
- ✓ Projected Tolerance Zones & Part Tolerancing
- ✓ Tolerance Analysis and Stackup analysis
- ✓ FAI, Paper Gauging and Functional Gauging


We would like to invite you to register and attend expert talks. The guest speaker for the FDP is Mr. Ashfaq Alam Siddiqui (Technical Director, Silhouettez). The details are given in the attached brochure.

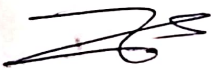
Participants willing to participate should register themselves by using the link below:

Link: <https://forms.gle/9NrcWYNfaueX6hAdA>

After Registration join WhatsApp group with link:

Link: <https://chat.whatsapp.com/liwjnOm6zl7CKr2cY9EADH>

  
Dr. P. S. Kachare  
HOD Mechanical

  
Dr. T. K. Nagaraj  
Principal









### Responsibilities

- Handling a team of 22 which includes Sr. and Jr. Design Engineers, Tool Room Engineer, VMC Operators, Turner, DRO Operator, Fabricator, Fitter, Service Engineer, Electrician, PLC Programming Engineer.
- Overall technical management of every project which includes RFQ preparation, team and resource allocation, devising execution plan, budgeting and delivery.
- Overall stock control and management of the tool room Including development, performance and maintenance of the tool room and stock control to produce smooth and efficient system and delivery solution, maximising performance & profitability against pre-agreed targets and control.
- Contribute to training and development of the team and organisation as a whole.
- Manage and maintain contact with internal and external client/customers.

### Tool Design Head

Silhouettes

03/2005 – 02/2010

Aurangabad, INDIA

(For more details kindly visit [www.silhouettes.com](http://www.silhouettes.com))

### Achievements

- Technical leadership in providing below mentioned services:

### Services

CAD/CAM/CAE/PLM Solution Sales and Implementation for 100+ customers  
CAD/CAM software Training for 10000+ students  
SPM Design of 20+ machines  
Press Tool design for 1000+ tools  
Moulds designs for 50+ moulds  
Forging dies design for 50+ dies  
Jigs & Fixtures design of 100+ nos.

### Responsibilities

- Handling a team of 5 Design Engineers, 2 Sales Engineers, 1 Application Engineer.
- Develop implementation procedures for facility layout and process design.
- Draft up detail and assembly design components, creating bill of materials using standard drafting techniques.
- Support management/program/developer initiatives by developing various Perl to perform automate tasks to support objectives.
- Developing blueprints for new tooling designs as per client or project specifications.
- Developing prototypes and testing new designs.
- Carrying out quality assurance tests on new designs.
- Keeping abreast of developments in the Engineering field by expanding network.
- Leading the implementation of CAD/CAM/CAE solutions at the client sites and help improve their manufacturing process.

### Tool Design Engineer

Manisha Enterprises

03/2004 - 12/2004

Auranaabad, INDIA

(Company website does not exist)

### Responsibilities

- Working in 3D environments creating designs, drafting, giving limits, fits, tolerance Selecting materials, specifying heat treatments, guiding for machining, etc.
- Creating surface models for VMC, Profiles for CNC Wire Cut.

### Achievements

- Designed maximum press tool dies, jigs, fixtures, welding fixtures for Badve Autocomp Pune.

## Technologies

### CATIA V5

(Sketcher, Assembly Design, Part Design, Structure Design Drafting, Sheet Metal, Wire frame and Surface Design, Kinematics.)

### CREO

(Sketcher, Assembly Design, Part Design, Structure Design Drafting, Sheet Metal, Wire frame and Surface Design, Kinematics.)

### NCGCAM

(Design, Mill, Lathe)

### SolidWorks

### AutoCAD

### HMI Programming

### PLC Programming

### Embedded Hardware Development

### Control Panel Development

### Windows OS (All Versions)

### Microsoft Office Suit (All Versions)

### CorelDraw

### Photoshop

## Education

### Bachelors of Engineering (Production)

T.P.C.T. College of Engineering

2003, Osmanabad, INDIA

1<sup>st</sup> Class

### Diploma in Mechanical Engineering

Government Polytechnic

2000, Osmanabad, INDIA

1<sup>st</sup> Class

## Certification

### Master's Program in CADD/CAM/CAE & Mould Design

Engineers CADD Centre

2004, Hyderabad, INDIA

A+

### Course in CNC Programming on VMC-500 (FANUC)

Govt. of India Ministry of Labour D.G.E.&T Advanced Training Institute

2004, Hyderabad, INDIA

A+

## Languages

English

Hindi

Urdu

Marathi



## Interests

Reading | Social Work | EDP Development | Poetry |

## Personal Details

Date of Birth : 01<sup>st</sup> March 1980  
Passport : M9406782 (valid up to 24.05.2025)  
Place : Aurangabad (MS, INDIA)







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LMISRMTT, LMIE  
Principal

## Department of Mechanical Engineering SIX Days FDP on GD & T (17 April 2023 to 22 April 2023) Day wise Schedule

### Day 1 – April 17<sup>th</sup>

2.00 p.m.-2.05 p.m.

Welcome to Director, Principal, HODs, Coordinators, Participants and Resource person by Prof. Salwe A.M.

2.05 p.m.-2.15 p.m.

Welcome address, Formal inauguration by Dr.P.S.Kachare. HOD - Mechanical.

2.15 p.m.-2.20 p.m.

Introduction to the Resource person by Prof. Salwe A. M.

2.20 p.m.-2.25 p.m.

Overview of the program and its objectives by Mr.Ashfaqe Siddique(Resource person)

2.25 p.m.-2.55 p.m.

Introduction to GD&T

2.55 p.m.-3.00 p.m.

A short break

3.00 p.m.-4.00 p.m.

Form controls: Straightness, flatness, roundness, circularity, cylindricity

4.00 p.m.-4.25 p.m.

Practice exercises and discussion

4.25 p.m.-4.30 p.m.

Closing of the day by Salwe A.M.

### Day 2 - April 18<sup>th</sup>

2.00 p.m.-2.05 p.m.

Welcome to the Participants and Resource person by Prof. Talpe A.V.

2.05 p.m.-3.05 p.m.

Orientation controls: Perpendicularity, parallelism, angularity

3.05 p.m.-3.10 p.m.

A short break

3.10 p.m.-3.55 p.m.

Datum features and datum reference frames

3.55 p.m.-4.25 p.m.

Practice exercises and discussion

4.25 p.m.-4.30 p.m.

Closing of the day by Prof. Talpe A.V.

### Day 3 - April 19<sup>th</sup>

2.00 p.m.-2.05 p.m.

Welcome to the Participants and Resource person by Prof. Pingle A.D.

2.05 p.m.-3.05 p.m.

Profile controls: Profile of a line and profile of a surface

3.05 p.m.-3.10 p.m.

A short break

3.10 p.m.-3.55 p.m.

Tolerance analysis

3.55 p.m.-4.25 p.m.

Practice exercises and discussion

4.25 p.m.-4.30 p.m.

Closing of the day by Prof. Pingle A.D.

### Day 4 - April 20<sup>th</sup>

2.00 p.m.-2.05 p.m.

Welcome to the Participants and Resource person by Prof.M.S.Devdhe.

2.05 p.m.-3.05 p.m.

Runout controls: Total runout and circular runout, concentricity, and symmetry

3.05 p.m.-3.10 p.m.

Short break

3.10 p.m.-3.55 p.m.

Composite controls

3.55 p.m.-4.25 p.m.

Practice exercises and discussion

4.25 p.m.-4.30 p.m.

Closing of the day by Prof.M.S.Devdhe.

### Day 5 - April 21<sup>st</sup>

2.00 p.m.-2.05 p.m.

Welcome to the Participants and Resource person by Prof.P.G.Patil

2.05 p.m.-3.05 p.m.

Inspection & measurement: Techniques & tools for measuring and verifying GD&T tol.

3.05 p.m.-3.10 p.m.

Short break

3.10 p.m.-3.55 p.m.

Review of all GD&T concepts and principles

3.55 p.m.-4.25 p.m.

Final practice exercises and Q&A session

4.25 p.m.-4.30 p.m.

Closing of the day by Prof. P.G.Patil

### Day 6 - April 22<sup>nd</sup>

2.00 p.m.-2.05 p.m.

Welcome to the Participants and Resource person by Prof.Chitale V.A.

2.05 p.m.-2.35 p.m.

Valedictory ceremony and closing remarks by Dr. Arun Patil.

2.35 p.m.-3.00 p.m.

Feedback session and program evaluation by Prof.P.V.Jatti.

3.00 p.m.-3.05 p.m.

Vote of Thanks by Prof.Chitale V.A.







# JAYAWANT SHIKSHAN PRASARAK MANDAL'S Bhivarabai Sawant Institute of Technology & Research

(Approved by AICTE New Delhi, DTE Mumbai & Affiliated to Savitribai Phule Pune University)

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EN 6311 / CEGP-013100



**Prof. Dr. T. J. Sawant**  
B.E. (Elec.) PGDM, Ph.D  
Founder Secretary

**Dr. T.K. Nagaraj**  
ME. (Civil Engg), Ph.D (Civil Engg)  
LMISTE, LMIGS, LMIRC  
LMISRTT, LMIE  
Principal

## GLIMPSES - SCREENSHOTS OF SESSION

**JSPM's**  
Bhivarabai Sawant Institute of Technology & Research,  
Wagholi, Pune

Department of Mechanical Engineering  
Cordially Invites you for the  
5<sup>th</sup> day (21<sup>st</sup> April 2023) of FDP  
on  
**GEOMETRIC DIMENSIONING & TOLERANCES**  
From 17 April 2023 to 22 April 2023  
By  
**ASHFAQUE ALAM SIDDIQUI**  
Technical Director  
Silhouettez

Participants (10)

- JSPM (Host, me)
- Mayur Devdhe (Co-host, guest)
- Ashfaqe Alam Siddiqui (Guest)
- Prof. Panikaj Patil (Guest)
- Anushri (Guest)
- CHAGAM CHANDRASEK... (Guest)
- Gururaja Sharma (Guest)
- Sudish Ray (Guest)
- Swapnil Gosavi (Guest)
- Jatti P (Guest)

**Geometric Dimensioning and Tolerancing (GD&T)**

**Cost of Drawing Error**

Drawing error compound the cost of the error as you move further from initial design to production

Drawing errors cost

1. Money
2. Time
3. Customer satisfaction- Sales

Design Prototype Production  
Product development stage

A drawing which conveys the right information for manufacturer and inspector is very important to avoid costly mistakes later one

Participants (23)

- JSPM (Host, me)
- Ashfaq... (Co-host, guest)
- Dr. Ajay Pingale (Co-host, guest)
- Kachare Pravin (Co-host, guest)
- Prof. Atul Tala... (Co-host, guest)
- chagam chandra sekhar... (Guest)
- Dr. Ajay Charan (Guest)
- drarunpabl (Guest)
- Jatti P (Guest)
- Mayur Devdhe (Guest)
- Mayuri Mhaske (Guest)
- Prof. Satish Gadhave (Guest)





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Zoom Meeting

Recording

Geometric Dimensioning and Tolerancing (GD&T)

silhouettez

**Toleranced engineering drawing**

Material : Aluminum 6061  
Note on general tolerances

The manufacturer can then decide how this part is to be made  
Sets up the machine tool to make the part.

The traditional way of giving specifications and tolerances to parts

**Co-ordinate tolerancing**

Participants (29)

Find a participant

- JSPM (Host, me)
- Ashfaqe \_ (Co-host, guest)
- Dr Ajay Pingale (Co-host, guest)
- Kachare Pravin (Co-host, guest)
- Prof. Atul Tala \_ (Co-host, guest)
- Amol Patil (Guest)
- ANINDITHA BISWAS (Guest)
- Arun (Guest)
- chagam chandra sekhar \_ (Guest)
- DR P S KACHARE (Guest)
- Dr Ranjitsinh Deshmukh (Guest)
- Jatti P (Guest)

37°C

15:11  
17-04-2023

Zoom Meeting

Recording

Geometric Dimensioning and Tolerancing (GD&T)

silhouettez

**Considering the positional deviation tolerances**

11.5mm is the diametrical gap between pin and Hole in x and y directions  
Considering x and y as 1.5. For any condition the pin will assemble

Your network bandwidth is low

Participants (19)

Find a participant

- JSPM (Host, me)
- Ashfaqe \_ (Co-host, guest)
- Dr Ajay Pingale (Co-host, guest)
- Prof. Atul Talape BSIOTR (Co-host, guest)
- chagam chandrasekhar \_ (Guest)
- D.P. Yesane, MMIT (Guest)
- Dipak Patil (Guest)
- Dr. Ajay Chavan (Guest)
- Jatti P (Guest)
- Nagaraj U S (Guest)
- Prof. Pankaj Patil (Guest)
- SHRIK \_ (Guest) Ask to Unmute

39°C

14:12  
18-04-2023





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Zoom Meeting

Recording

Geometric Dimensioning and Tolerancing (GD&T)

silhouettez

**Feature location control**

Drawing of Stepped shaft

Drawing does not mention any relation between segment 1 and 2

Participants (22)

Find a participant

- JSPM (Host, me)
- Ashfaqe \_ (Co-host, guest)
- Dr. Ajay Pingale (Co-host, guest)
- Arun (Guest)
- Ashok Machhe (Guest)
- chagam chandrasekhar \_ (Guest)
- D.P. Yesane, MMIT (Guest)
- Dattatraya Inamdar (Guest)
- Dipak... (Guest) **Ask to Unmute**
- Dr. Ajay Chavan (Guest)
- Jatti P (Guest)
- Nagargoje U S (Guest)

Type here to search

39°C

14:20  
18-04-2023

Zoom Meeting

Recording

Geometric Dimensioning and Tolerancing (GD&T)

silhouettez

**Origins of GD&T**

- The first realization that the traditional method of tolerancing was inefficient came during the time of World War 2
- An engineer found that parts which were actually functional were being rejected.
- He came up with the idea of True position which is the most important geometric tolerance today for mating parts

Concepts developed gradually and then they were all accumulated and made into a standard ASME Y14.5M Dimensioning and Tolerancing

The Y14.5 standard is considered the authoritative guideline for the design language of geometric dimensioning and tolerancing

Latest - 2009 revision

Participants (24)

Find a participant

- JSPM (Host, me)
- Ashfaqe \_ (Co-host, guest)
- Dr. Ajay Pingale (Co-host, guest)
- Arun (Guest)
- Ashok Machhe (Guest)
- chagam chandrasekhar \_ (Guest)
- D.P. Yesane, MMIT (Guest)
- Dattatraya Inamdar (Guest)
- Dipak Patil (Guest)
- Dr. Aj... (Guest) **Ask to Unmute**
- Jatti P (Guest)
- Mayur Devdhe (Guest)

Type here to search

36°C

14:42  
18-04-2023





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Principal

Participants (13)

Find a participant

- JSPM (Host, me)
- Ashfaqe Alam Siddiqui (SILHOUETTEZ) (Co-host, guest) [Ummute]
- Mayur Devdhe (Co-host, guest)
- Anushri (Guest)
- Ashok Mache (Guest)
- chagam chandrasekhar reddy (Guest)
- Dattatraya Inamdai (Guest)
- Mayur (Guest)
- PATIL PANKAJ (Guest)
- Prof Satish Gadhave (Guest)
- Sudish Ray (Guest) [Ask to Unmute]
- Tushar Bora (Guest)
- Jatti P (Guest)

Invite Mute All

Zoom Meeting

You are viewing Ashfaqe Alam Siddiqui (SILHOUETTEZ) screen

Recording

View Options

Participants (25)

Find a participant

- Arun (Guest)
- Ashok Mache (Guest)
- chagam chandrasekhar... (Guest)
- D.P. Yesane, MMIT (Guest)
- Dr. Ajay Chavan (Guest)
- Jatti P (Guest)
- Mayur Devdhe (Guest)
- Nagargoje U S (Guest)
- Nivru... (Guest) [Ask to Unmute]
- Prof Pankaj Patil (Guest)
- Prof. Atul Talape BSIOTR (Guest)
- Prof. Atul Talape (Guest)

Selection of datums

Selection of datum should be done based on

- Functional surfaces
- Mating surfaces
- Readily accessible surfaces
- Surfaces of sufficient size for stability

Applied to

- Features not subject to size variations - Minor surfaces
- Features of size - Holes, Slots, Pins, Shafts

Unmute Start Video Security Participants Share Screen Apps Whiteboards More

Type here to search 38°C 15:54 18-04-2023





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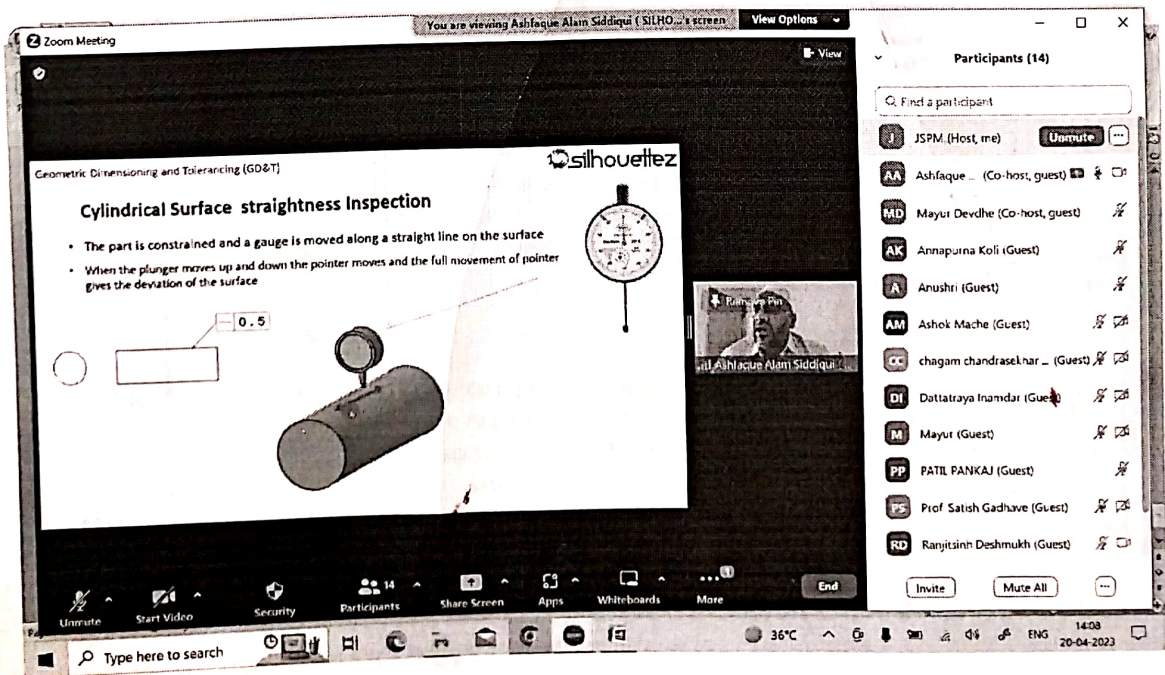
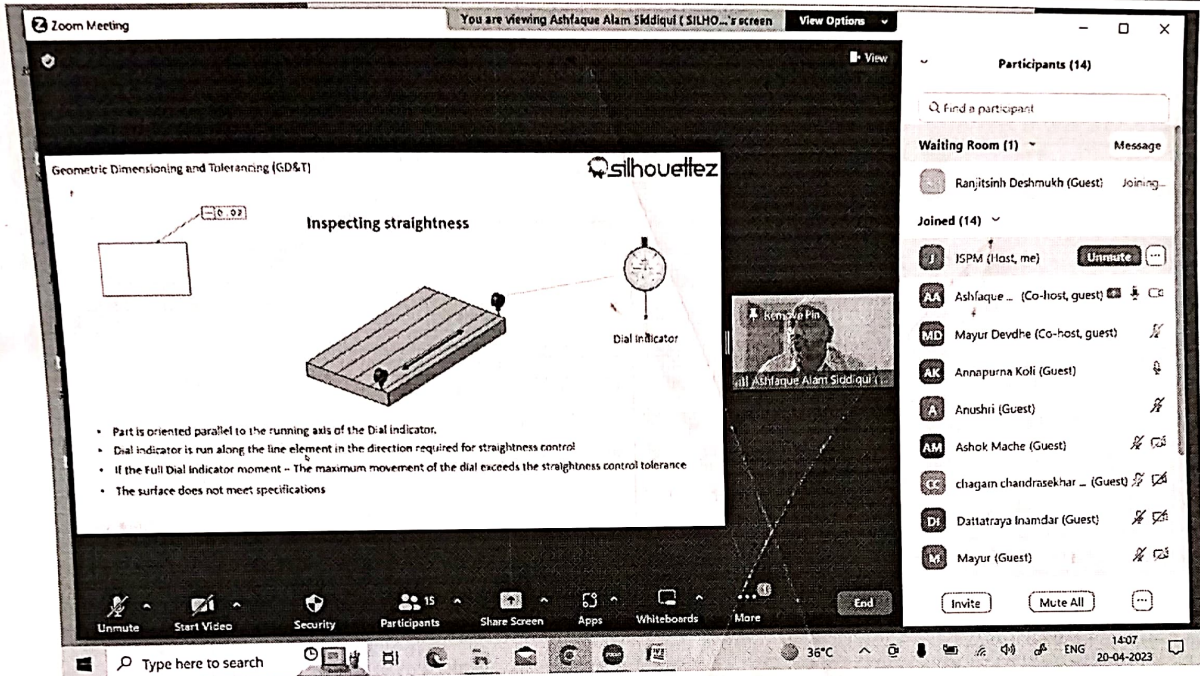
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The screenshot shows a Zoom meeting interface. The main content is a presentation slide titled "Geometric Dimensioning and Tolerancing (GD&T)" with the sub-heading "Runout". The slide text states: "Runout is applied on surfaces of rotating parts generally controlling them with respect to a rotational datum axis. Surface can be around the axis or perpendicular to axis." It also defines "Circular Runout" as "Runout controls circular elements on the surface with respect to the datum axis." A diagram of a shaft with a circular runout feature is shown, with labels for "Local Tolerance zone", "6.1", "A", and "Elements controlled for runout". The Zoom interface includes a "Participants (9)" list on the right with names like JSPM (Host, me), Ashfaqe AL., Mayur Devdhe, Anushri, CHAGAM CHANDRASEK., Prof. Pankaj Patil, Sudish Ray, Swapnil Gosavi, and Jatti P. The bottom of the screen shows the Windows taskbar with the search bar, system tray, and date/time (14:05, 21-04-2023).



	Email Address	Name of Participant (As per required on Certificate)	Full Name of Organization/Institute	Total year's of Experience	Mobile Number	JSPM/TSSM Faculty HOD recommended Letter	QR Code for Payment & Bank Details for Bank : Union Bank of India Branch : Navi peth, Pune A/C Name : JSPM, Bhivarabai Sawant Institute of Technology & Research A/C No : 360002010211063 IFSC : UBIN0536008	Bank Details for Payment Bank : Union Bank of India Branch : Navi peth, Pune A/C Name : JSPM, Bhivarabai Sawant Institute of Technology & Research A/C No : 360002010211063 IFSC : UBIN0536008	Payment Screenshot for participants (JPEG below 1 MB) OR I Card for JSPM TSSM Faculty	Amount Paid
4-5-2023 22:28:53	mdhagate@rediffmail.com	Dhagate Mohan Dnyandeve	HSPVT's GOI Faculty of Engineering, Kashti	35	9422726334		Payment failed	Payment failed.	<a href="https://drive.google.com/open?id=17Xln-TYNPxpNzWgHc18aMfkqZFEgDI">https://drive.google.com/open?id=17Xln-TYNPxpNzWgHc18aMfkqZFEgDI</a>	200
4-6-2023 10:35:40	dipakpatil_mechanical@gmail.com	Dipak Sudam Patil	Loknete Gopinathji Munde Institute of Engineering	14	7030486001	NO	Rs 200	Online by phone pe	<a href="https://drive.google.com/open?id=1BmmnVrIkXQ9GzCzCqAQW DquaspMDHBr">https://drive.google.com/open?id=1BmmnVrIkXQ9GzCzCqAQW DquaspMDHBr</a>	200
4-6-2023 20:11:41	skmalave.sc05@gmail.com	Sachin Krishna Malave	Shrimati Kashibai Navale College of Engineering, Pune	14	+919657357994	NO	Rs 200	UPI transaction Id-309660059580	<a href="https://drive.google.com/open?id=1JXVlndTwilLmRm8EBZQgmaApZczBYD">https://drive.google.com/open?id=1JXVlndTwilLmRm8EBZQgmaApZczBYD</a>	200
4-10-2023 10:58:59	agpatil_mech@jspmbsior.edu.in	Dr. Arun Patil	JSPM, BSIOTR	24	9689922636		Payment Done		<a href="https://drive.google.com/open?id=1zBmWzNj1lc7lwj_G5V-S2JJKSZ7TrMW9">https://drive.google.com/open?id=1zBmWzNj1lc7lwj_G5V-S2JJKSZ7TrMW9</a>	0
4-10-2023 11:16:50	ajay9028@gmail.com	Dr Ajay Pingale	JSPM's BSIOTR	4	9970598292		Done		<a href="https://drive.google.com/open?id=1vuYLos85u1fn47qwWcA30AOb7nDn_Y">https://drive.google.com/open?id=1vuYLos85u1fn47qwWcA30AOb7nDn_Y</a>	0
4-10-2023 11:36:23	anushrisalve@gmail.com	Salve A.M.	JSPM's BSIOTR, Wagholi, Pune	10	09881761366		JSPM Faculty		<a href="https://drive.google.com/open?id=1Rfa-R7qzCnaITqisOW6Scem17IGI_b">https://drive.google.com/open?id=1Rfa-R7qzCnaITqisOW6Scem17IGI_b</a>	0
4-10-2023 11:43:46	mayurdevdhe@gmail.com	Mayur S Devdhe	JSPM's Bhivarabai Sawant Institute of Technology & Research Wagholi Pune	4	9503170311		JSPM Faculty		<a href="https://drive.google.com/open?id=19r1LeqOUhDTOf_xj2DX0RUB4PC7XrIL">https://drive.google.com/open?id=19r1LeqOUhDTOf_xj2DX0RUB4PC7XrIL</a>	0
4-10-2023 11:47:38	annapumakoli123@gmail.com	Annapurna Koli	M's Bhivarabai Sawant Institute of Technology & Research Wagholi	2	9665844789		JSPM Faculty		<a href="https://drive.google.com/open?id=1vBrsMa5AZ-3YYZdMILHB3xsTYh24DqYb">https://drive.google.com/open?id=1vBrsMa5AZ-3YYZdMILHB3xsTYh24DqYb</a>	0



4-10-2023 16:30:17	waghshek@gmail.com	SHEKHAR SUKHDEV WAGHMODE	Bhivarabai Sawant Polytechnic Wagholi Pune	8	9889617635				0	<a href="https://drive.google.com/open?id=1XYAnn4C_bCuy8cYE0Wym7IQzc_0JGOe">https://drive.google.com/open?id=1XYAnn4C_bCuy8cYE0Wym7IQzc_0JGOe</a>	0
4-10-2023 17:10:37	dayanand.yesane@mit.edu.in	Dayanand Pandurang Yesane	Marathwada Mitra Mandal's Institute of Technology, Lohagaon, Pune	14	8380067235				200	<a href="https://drive.google.com/open?id=1_bZavL_AsAx0R4g6GMMNFdy_nYfAWQj">https://drive.google.com/open?id=1_bZavL_AsAx0R4g6GMMNFdy_nYfAWQj</a>	
4-10-2023 17:21:58	prof.sushant@gmail.com	HIREMATH SUSHANT SHIVKUMAR	JSPM NTC, NARHE	10	8329336732		NA		0	<a href="https://drive.google.com/open?id=1_ZxswUjUM_fi6cSxKlpJNE9wT3ffJCCr">https://drive.google.com/open?id=1_ZxswUjUM_fi6cSxKlpJNE9wT3ffJCCr</a>	
4-10-2023 17:56:56	durgesh.borse@sandi.puniversity.edu.in	MR. DURGESH YASHWANT BORSE	School of Engineering and Technology, Sandip University Nashik	1	8605115016			3.4665E+11	250	<a href="https://drive.google.com/open?id=1V3EUK67a4qTsm6h6CDizmoalIzdG3GG">https://drive.google.com/open?id=1V3EUK67a4qTsm6h6CDizmoalIzdG3GG</a>	
4-10-2023 20:07:29	gbagalave@witsolapur.org	Ganesh B. Agalave	Waichand Institute of Technology	20	9420476011			200	200	<a href="https://drive.google.com/open?id=1WvNkcy9iCO1MvX8x10ZM1A46xNozcVIZ">https://drive.google.com/open?id=1WvNkcy9iCO1MvX8x10ZM1A46xNozcVIZ</a>	
4-11-2023 10:49:44	pgcmeech007@gmail.com	Patil Pankaj Ganpatrao	JSPM's Bhivarabai Sawant Institute Of Technology & Research, Wagholi	20 yrs.	9860731617			JSPM'S FACULTY	0	<a href="https://drive.google.com/open?id=1KemoZTIGd9MFCINWIKOIBIR9YU5oz_39X">https://drive.google.com/open?id=1KemoZTIGd9MFCINWIKOIBIR9YU5oz_39X</a>	
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4-11-2023 14:37:24	ashok.mache@vilit.ac.in	Dr. Ashok R. Mache	VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY PUNE	18	9011541277			IMPS00227234333	200	<a href="https://drive.google.com/open?id=1nfxDR5L4fMDITZWdZH5cdKGCfXmTA6">https://drive.google.com/open?id=1nfxDR5L4fMDITZWdZH5cdKGCfXmTA6</a>	
4-11-2023 20:44:35	chandra.chagam@gmail.com	C.CHANDRASEKHAR REDDY	JNTUA COLLEGE OF ENGINEERING PULIVENDULA	09	6302636664			T2304112042397221601162	200	<a href="https://drive.google.com/open?id=1B57nUfKcuhEImoaplo2G7ThLaYTYr4hH">https://drive.google.com/open?id=1B57nUfKcuhEImoaplo2G7ThLaYTYr4hH</a>	



4-12-2023 6:10:39	ankush.khansole01@gmail.com	Ankush Balajirao Khansole	PVPIT, Bavdhan Pune	8	9096888329	NA		<a href="https://drive.google.com/open?id=14JGDmIE3mkHRRnGcaQRbW1TRID08QnZ">https://drive.google.com/open?id=14JGDmIE3mkHRRnGcaQRbW1TRID08QnZ</a>	0
4-12-2023 8:20:51	boratushar6@gmail.com	Prof Tushar Ashok Bora	TSSM PVPIT COLLEGE OF ENGINEERING PUNE	9	9561983639	00		<a href="https://drive.google.com/open?id=1q2ZDwdllQhTwhRBIbHh8IDZY0Z1IU1q">https://drive.google.com/open?id=1q2ZDwdllQhTwhRBIbHh8IDZY0Z1IU1q</a>	0
4-12-2023 9:08:01	kamal.ukey@raisoni.net	Kamal Ukey	G.H.Raisoni College of Engineering & Research, Wagholi, Pune	16	80559 83554	Done		<a href="https://drive.google.com/open?id=1Pnol7zrkzResGzJqHy4ma5paeNQ-T17A">https://drive.google.com/open?id=1Pnol7zrkzResGzJqHy4ma5paeNQ-T17A</a>	200
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# CERTIFICATE

## OF PARTICIPATION

PROUDLY PRESENTED TO

*Dhagate Mehan Dnyandeo*

for participating and attending Six days **FACULTY DEVELOPMENT PROGRAMME** on the theme  
**GEOMETRIC DIMENSIONING & TOLERANCES** held from 17 April 2023 to 22 April 2023

Dr. P.S.K. Patil  
HOD-I

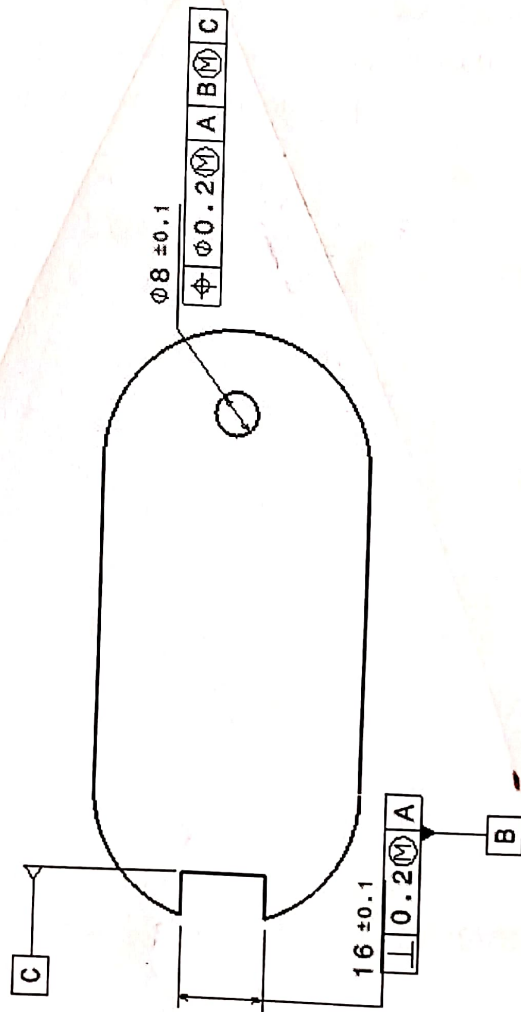
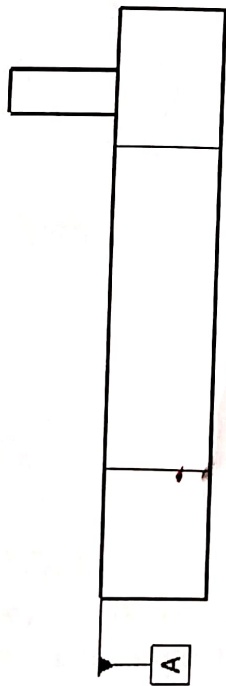
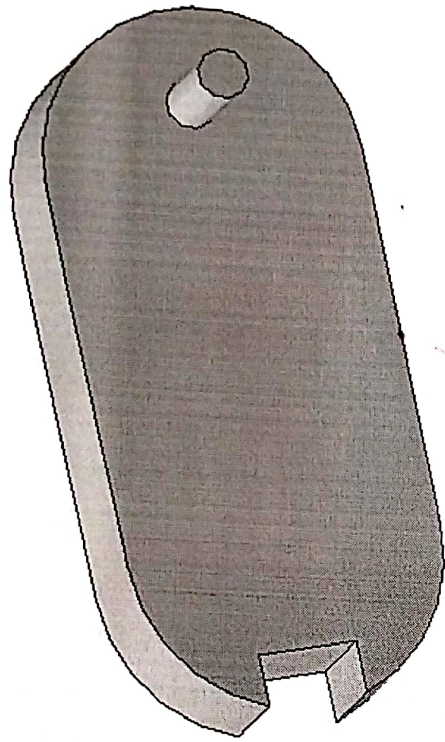
Dr. ARUN PATIL  
CONVENOR

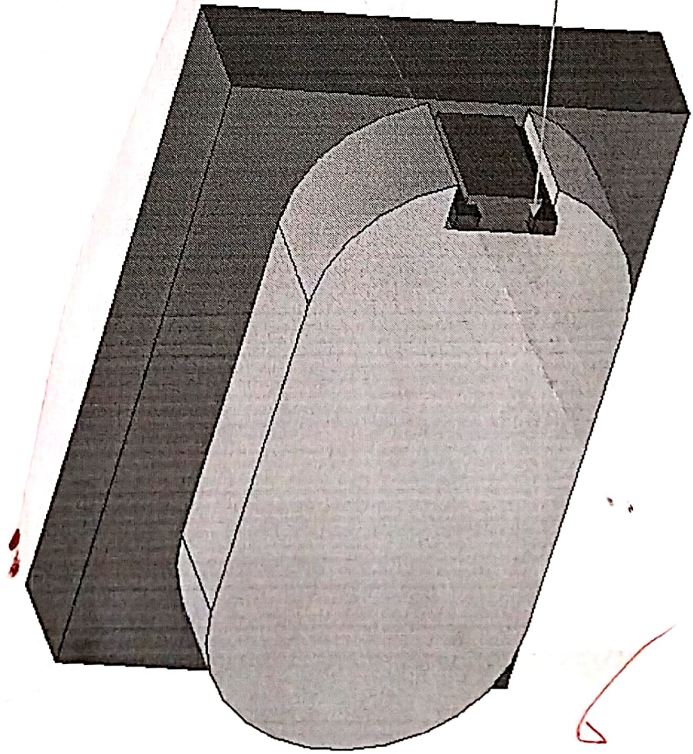
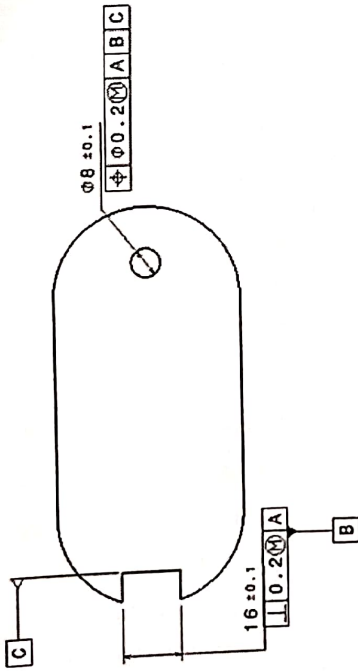
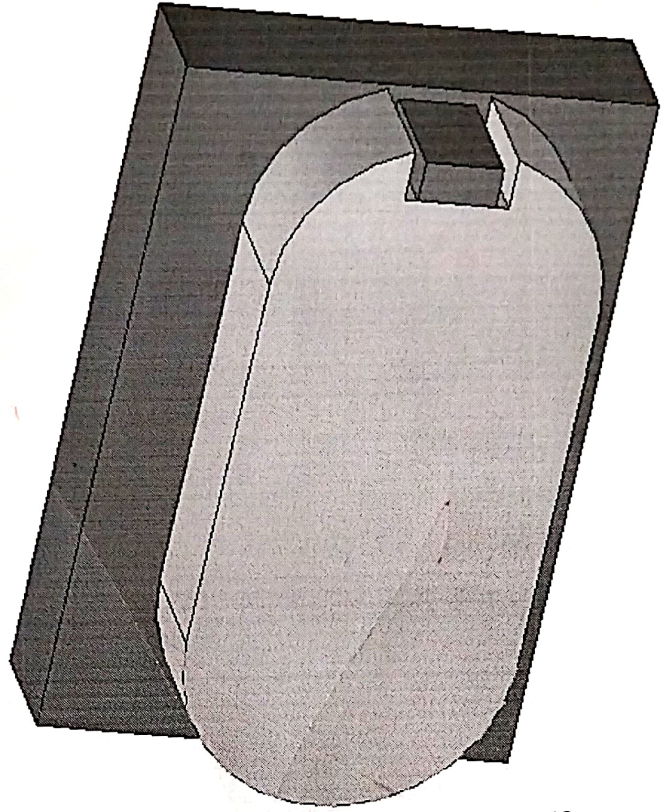
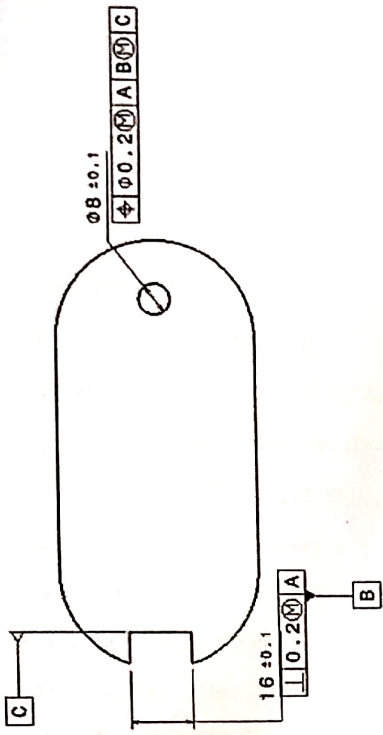
Dr. T.K.NAGARAJ  
PRINCIPAL





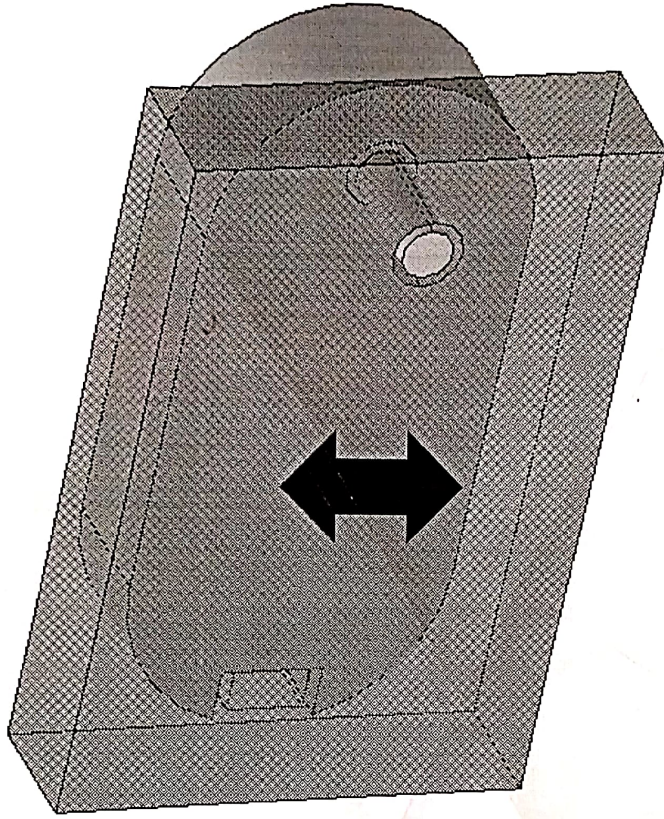
# Datum shift : Example 3



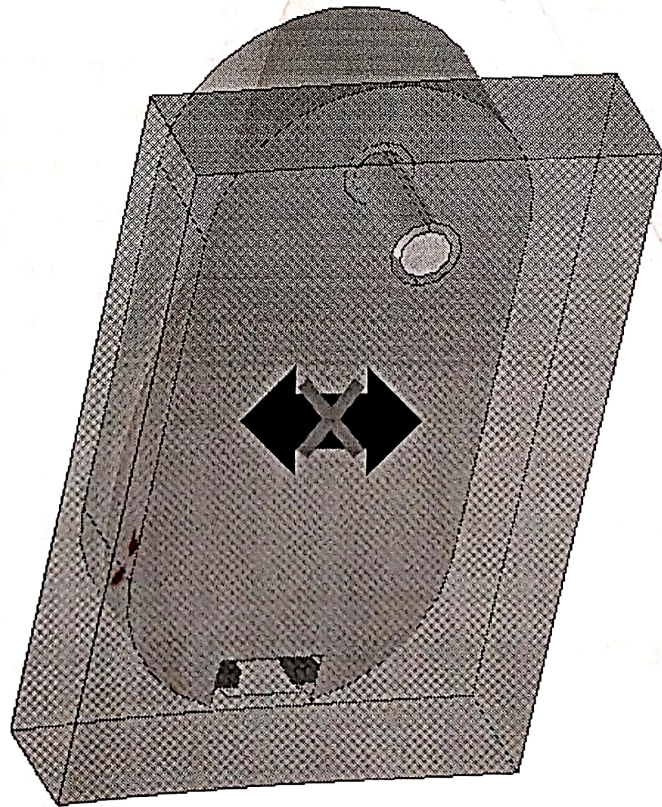


Moving Jaws



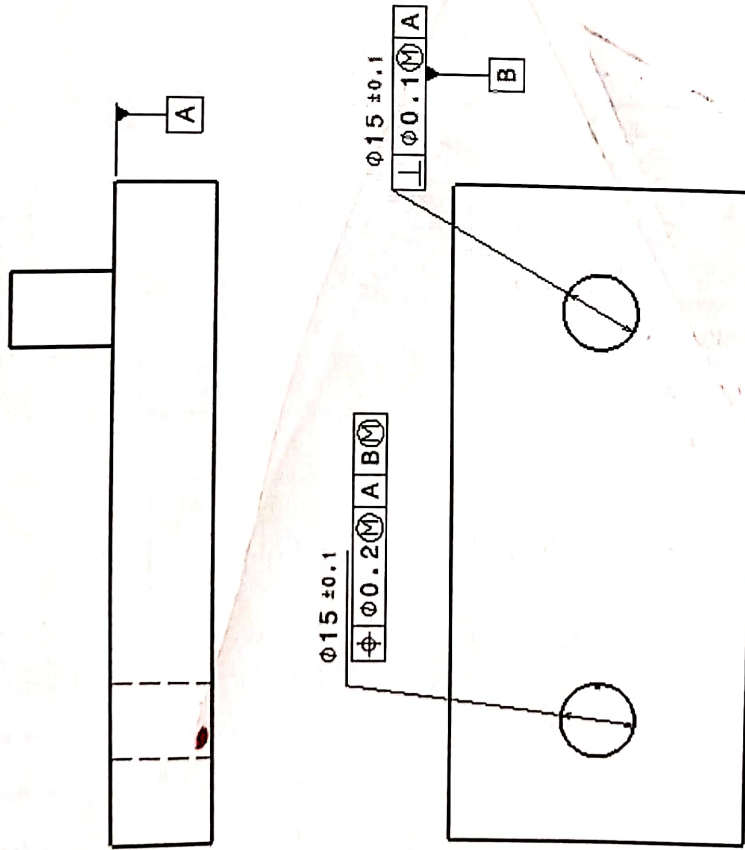
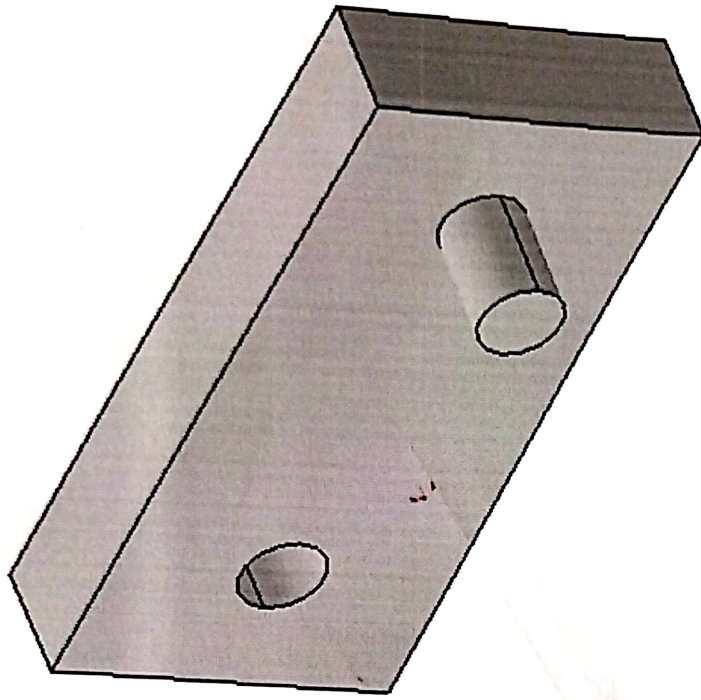


Will not be fixed and can move up and down –datum shift



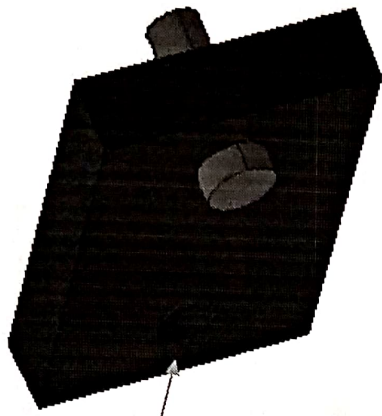
Will become fixed and not move around

# Datum shift : Example 4 – Gauge design



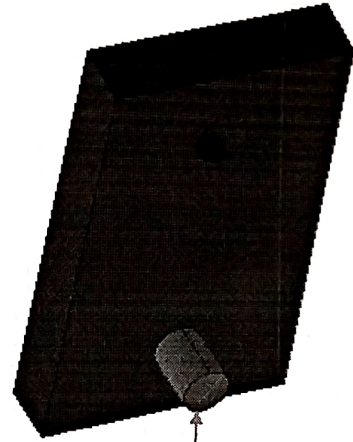


## Gauge for the part



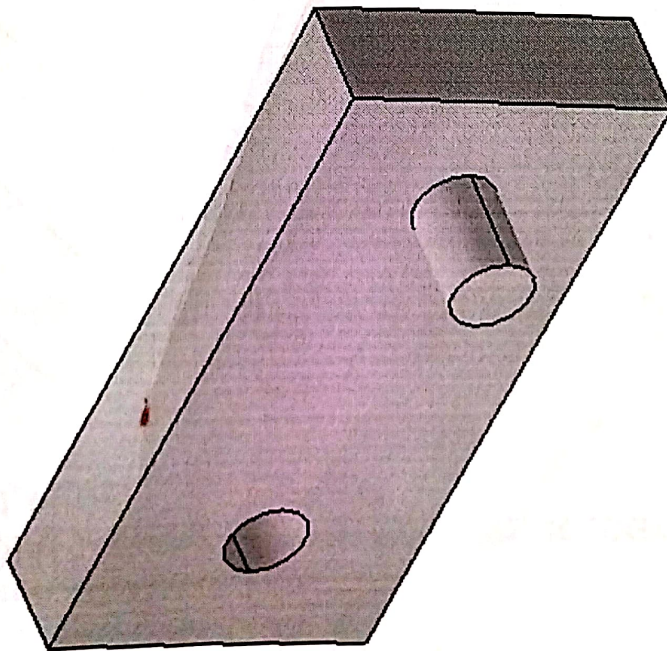
Hole at VC of Part pin

$$15.1 + 0.1 = 15.2$$

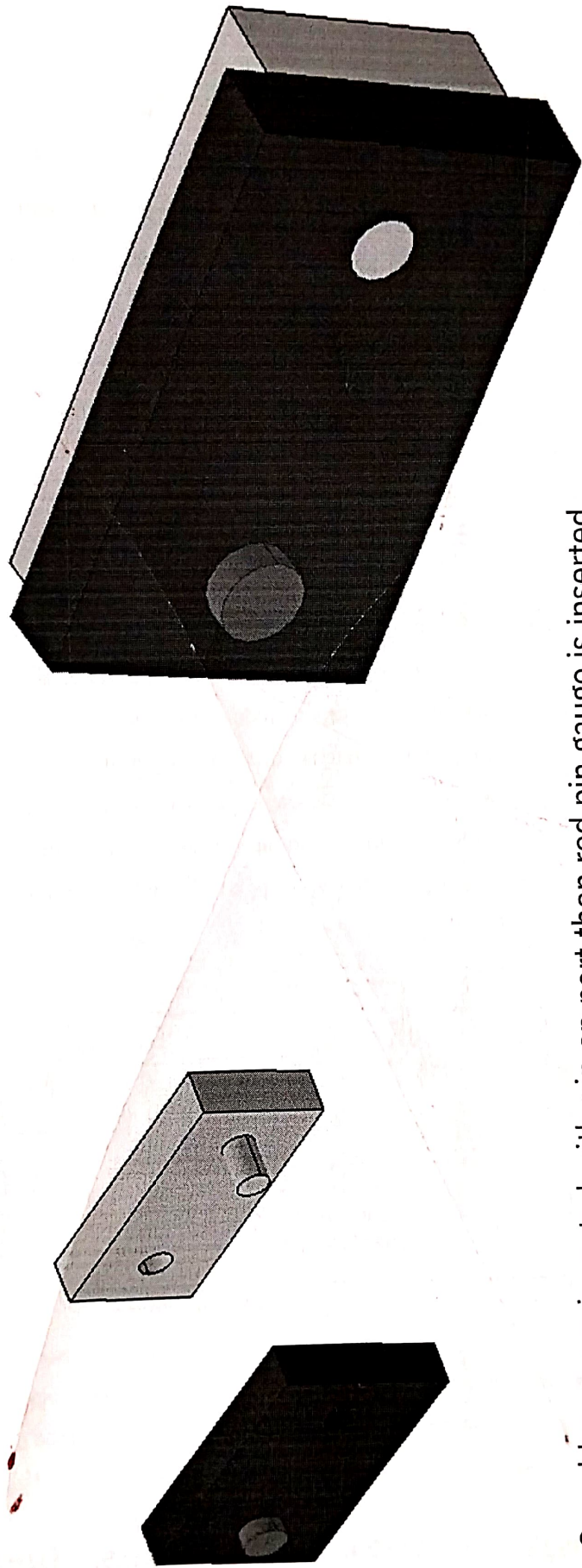


Pin at VC of Part hole

$$14.9 - 0.2 = 14.7$$



## Inspection Procedure: Mating of the gauge and part



Once blue gauge is mated with pin on part then red pin gauge is inserted  
After this insertion the Part will move around –that is datum shift



## Calculations

Maximum datum shift happens when the datum feature of size is at LMC

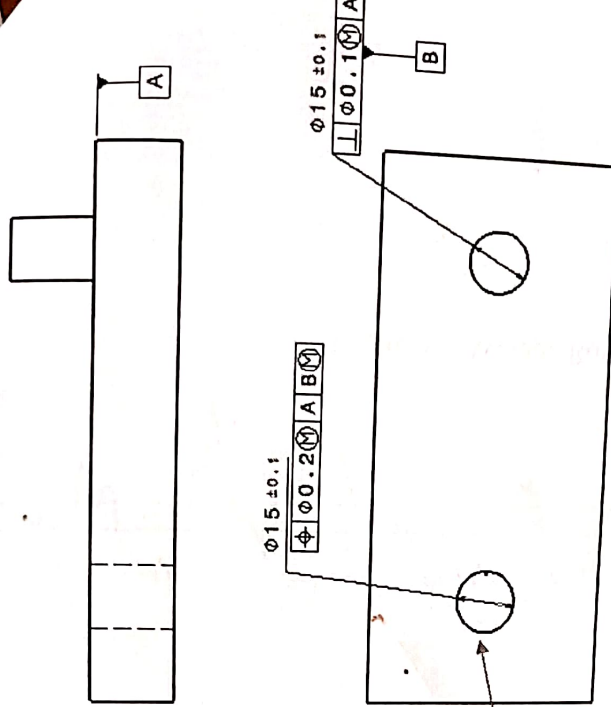
LMC of pin  $-14.9$

Amount of Datum shift is the deviation from MMC i.e.  $15.1 - 14.9 = 0.2$

When the Hole is LMC  $-15.1$  the positional tolerance applicable is  $0.2 + \text{Bonus tolerance } (0.2)$   
Total being  $0.4$

So in worst case when the pin for inspecting hole is inserted, the gauge can shift totally by  
Positional tolerance + datum shift  
i.e.  $0.2 + 0.4 = 0.6$

**Total positional deviation on gauge = Positional tolerance at LMC + Datum shift**



Timestamp	Score	Your Name	Organization's Name	Fill in the blanks : No part can be manufactured in a perfect ideal shape, size and dimensions. There is always a _____ associated with each specification or dimension.	Height gauge : It is an instrument used to measure heights of a part which is resting on a surface plate . Which type of Gauge is it?	If we are doing inspection measurements which need to be very precise , which type of gauges would be preferred ?	A Fastener assembled in a through (non threaded ) hole on a plate for fastening . What is the fit between the shank of bolt and the hole ?	When is the cost of Drawing error most pronounced?	Whether this statement is true or false? A. Centre plane of two parallel opposite faces is a feature.	Fill in the blanks : If tolerances are not mentioned along with the dimensions then a _____ table is mandatory along with a note	The Tolerance value for a part is defined keeping in mind which type of requirements during the design process.	Hinges , clevis pin joints and any rotating pin joints use _____ fit for functional purpose	Which type of fit would be suitable for fastening a bearing directly on a shaft
4-18-2023 6:07:16	8 / 10	Ashfaqe	Silhouettes	Tolerance	Variable gauge	Variable gauges	Clearance fit	In the hands of the customer or user	FALSE	General shape	Only product Functional Requirements	Clearance	B and C
4-18-2023 14:01:26	1 / 10	Mr. Swapnil Vijaygir Gosavi	PES's Modern College of Engineering,Pune	Tolerance	Functional gauge	Functional Attribute gauges	Interference fit	In the prototype stage	TRUE	General Dimension	Only Manufacturing Requirements	Interference	C. Interference
4-18-2023 14:01:27	3 / 10	Dipak sudam patil	LOGMIEER	Tolerance	Functional gauge	Functional Attribute gauges	Transition fit	In the Design stage	TRUE	General Tolerance	Both Product Functional requirements and Manufacturing Requirements	Transition	A and B
4-18-2023 14:05:34	4 / 10	Dattatray Mahadeo Inamdar	SVR'S COLLEGE OF ENGINEERING POLY. PANDHARPUR	Allowance	Variable gauge	Variable gauges	Interference fit	In the prototype stage	TRUE	General Tolerance	Both Product Functional requirements and Manufacturing Requirements	Transition	A and B
4-18-2023 14:06:09	2 / 10	Fshitsj	Hajisji	Allowance	Functional gauge	Variable gauges	Clearance fit	In the prototype stage	TRUE	General Dimension	Only Product Functional Requirements	Interference	B. Transition
4-18-2023 14:09:20	10 / 10	RAHUL AJTADE	Fabtech engineering college, Sangola	Tolerance	Variable gauge	Variable gauges	Clearance fit	In the hands of the customer or user	FALSE	General Tolerance	Both Product Functional requirements and Manufacturing Requirements	Clearance	B and C
4-18-2023 14:09:21	10 / 10	Shashikant Ganpat Mane	Fabtech Technical campus College of engineering and Research Sangola	Tolerance	Variable gauge	Variable gauges	Clearance fit	In the hands of the customer or user	FALSE	General Tolerance	Both Product Functional requirements and Manufacturing Requirements	Clearance	B and C
4-18-2023 14:09:38	3 / 10	Durgesh Yashwant Borse	Sandip University Nashik	Tolerance	Functional gauge	Functional Attribute gauges	Interference fit	In the Design stage	TRUE	General Dimension	Both Product Functional requirements and Manufacturing Requirements	Clearance	A and B
4-18-2023 14:15:56	6 / 10	Dr. Ajay Chauhan	Dhole Patil College of Engineering, Kharadi, Pune	Tolerance	Variable gauge	Functional Attribute gauges	Clearance fit	In the hands of the customer or user	TRUE	General Tolerance	Both Product Functional requirements and Manufacturing Requirements	Interference	C. Interference
4-18-2023 14:17:58	6 / 10	Vikram Avhad	Dhole Patil College of Engineering	Tolerance	Variable gauge	Functional Attribute gauges	Clearance fit	In the hands of the customer or user	TRUE	General Tolerance	Both Product Functional requirements and Manufacturing Requirements	Interference	C. Interference
4-18-2023 14:18:13	6 / 10	Mayur Sanjay Mhaske	Dhole Patil College of Engineering Pune	Tolerance	Variable gauge	Functional Attribute gauges	Clearance fit	In the hands of the customer or user	TRUE	General Tolerance	Both Product Functional requirements and Manufacturing Requirements	Interference	C. Interference
4-18-2023 14:20:05	10 / 10	Mayur Sanjay Mhaske	Dhole Patil College of Engineering Pune	Tolerance	Variable gauge	Variable gauges	Clearance fit	In the hands of the customer or user	FALSE	General Tolerance	Both Product Functional requirements and Manufacturing Requirements	Clearance	B and C
4-18-2023 14:20:17	5 / 10	saivalbhavgi@gmail.com	LOGMIEER, Nashik	Allowance	Functional gauge	Functional Attribute gauges	Clearance fit	In the hands of the customer or user	FALSE	General Tolerance	Both Product Functional requirements and Manufacturing Requirements	Transition	A and B
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Date	Time	Name	Institution	Allowance	Variable gauge	Variable gauges	Interference fit	In the Design stage	TRUE	General Dimension	Only Product Functional requirements Both Product Functional requirements and Manufacturing Requirements	Clearance	C. Interference
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4-18-2023	14:50:15	9 / 10 Prof Ashok Mache	VIT	Tolerance	Variable gauge	Variable gauges	Interference fit	In the prototype stage	FALSE	General Tolerance	Clearance	Clearance	B. Transition
4-18-2023	15:38:42	6 / 10 DATTATRAY MAHADEO INAMDAR	SVERIS COLLEGE OF ENGINEERING (COE), PANDHARPUR	Tolerance	Variable gauge	Functional Attribute gauges	Clearance fit	In the Design stage	TRUE	General Tolerance	Clearance	Clearance	B and C
4-18-2023	15:52:47	8 / 10 CHANDRASEKHAR REDDY	JNTUA COLLEGE OF ENGINEERING PULIVENDULA	Tolerance	Variable gauge	Variable gauges	Clearance fit	In the Design stage	TRUE	General Tolerance	Clearance	Clearance	B and C
4-18-2023	16:36:51	5 / 10 Sachin Krishna Malave	Shri Sai Kashi Bai Navale College of Engineering Pune	Tolerance	Functional gauge	Functional / Attribute gauges	Transition fit	In the prototype stage	FALSE	General Dimension	Clearance	Clearance	B. Transition
4-18-2023	16:59:37	5 / 10 Dr Ranjitsinh Ashok Deshmukh	Shivaji Polytechnic college sangola	Tolerance	Functional gauge	Functional / Attribute gauges	Clearance fit	In the prototype stage	FALSE	General Dimension	Clearance	Clearance	B. Transition
4-18-2023	17:10:43	5 / 10 Shekhar Subhdev Waghmode	Smt Kashi Bai Navale College of Engineering Pune	Tolerance	Functional gauge	Functional / Attribute gauges	Clearance fit	In the prototype stage	FALSE	General Tolerance	Interference	Interference	A. Clearance
4-18-2023	18:36:58	6 / 10 Gangaram Staram Bhosale	Shivaji Polytechnic college sangola	Tolerance	Variable gauge	Functional / Attribute gauges	Clearance fit	In the prototype stage	FALSE	General Dimension	Transition	Transition	B and C
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4-19-2023	13:09:12	7 / 10 Sanjay Ashok Pawar	Faltech Technical Campus COER Sangola	Tolerance	Variable gauge	Variable gauges	Interference fit	In the Design stage	FALSE	General Tolerance	Clearance	Clearance	C. Interference
4-20-2023	11:38:22	6 / 10 Kanchan V Rajput	DYPIEMR	Tolerance	Variable gauge	Variable gauges	Transition fit	In the Design stage	FALSE	General Tolerance	Transition	Transition	B and C
4-21-2023	13:12:03	5 / 10 Dayanand Pandurang Yesane	MAHARAJA Mitra Mandar's Institute of Technology, Lohagadon, Pune	Tolerance	Variable gauge	Variable gauges	Interference fit	In the Design stage	TRUE	General Tolerance	Interference	Interference	B and C

Timestamp	Score	Your Name	Organization's Name	Fill in the blanks : Co-ordinate tolerancing doesn't control _____ relationships	What is the reason for Ambiguity in drawings using Co ordinate tolerancing ? Select the most suitable option	Fill in the blanks : The main purpose of using GD&T is conveying _____
4-18-2023 14:10:27	1 / 3	Gshshj	Hshshh	Surface	C. No reference of measurements	Designers Intent
4-18-2023 14:10:53	3 / 3	Shashikant Ganpat Mane	Fabtech College of engineering and Research Sangola	Geometric relationships	C And D	Designers Intent
4-18-2023 14:13:34	3 / 3	Rahul Autade	Fabtech engineering college,Sangola	Geometric relationships	C And D	Designers Intent
4-18-2023 14:22:49	1 / 3	Jape Vaibhav Gangadhar	LOGMIEER, Nashik	Size	C And D	Manufacturing instructions
4-18-2023 14:31:11	0 / 3	Mayuri Sanjay Mhaske	Dhole Patil College of Engineering Pune	Surface	D. No communication on position , location and form relationships of features	Manufacturing instructions
4-18-2023 14:32:59	3 / 3	Mayuri Sanjay Mhaske	Dhole Patil College of Engineering Pune	Geometric relationships	C And D	Designers Intent
4-18-2023 14:33:16	3 / 3	Vikram Avhad	Dhole Patil College of Engineering	Geometric relationships	C And D	Designers Intent
4-18-2023 14:34:30	3 / 3	Dr. Ajay Chavan	Dhole Patil College of Engineering Kharadi Pune	Geometric relationships	C And D	Designers Intent
4-18-2023 14:51:37	2 / 3	Prof Ashok Mache	VIIT PUNE	Geometric relationships	C And D	Manufacturing instructions
4-18-2023 14:53:40	2 / 3	CHAGAM CHANDRASEKHAR REDDY	JNUA COLLEGE OF ENGINEERING PULIVENDULA	Geometric relationships	C And D	The functional requirements of the parts
4-18-2023 14:54:49	3 / 3	CHAGAM CHANDRASEKHAR REDDY	JNTUA COLLEGE OF ENGINEERING PULIVENDULA	Geometric relationships	C And D	Designers Intent
4-18-2023 15:52:40	1 / 3	Dattatray Mahadeo Inamdar	SVRI's College of Engineering Poly., Pandharpur	Size	C And D	Manufacturing instructions



4-18-2023 15:54:53	2 / 3	Dattatray Mahadeo inamdar	SVERI's College of Engineering Poly., Pandharpur	Geometric relationships	C And D	Manufacturing instructions
4-18-2023 16:32:14	2 / 3	Dipak Sudam Patil	LOGMIEER Nashik	Geometric relationships	C And D	The functional requirements of the parts
4-18-2023 16:48:29	1 / 3	Sachin Krishna Malave	Shrimati Kashibai Navale College of Engineering Pune	Surface	C And D	The functional requirements of the parts
4-18-2023 17:19:30	2 / 3	Shekhar Sukhdev Waghmode	Smt Kashibai Navale College of Engineering Pune	Geometric relationships	C And D	The functional requirements of the parts
4-18-2023 18:53:57	0 / 3	Gangaram Sitaram Bhosale	Shivaji Polytechnic college sangola	Surface	C. No reference of measurements	The functional requirements of the parts
4-18-2023 18:55:25	2 / 3	Gangaram Sitaram Bhosale	Shivaji Polytechnic college sangola	Surface	C And D	Designers Intent
4-19-2023 8:47:54	2 / 3	SUDISH RAY	ALAMURI RATNAMALA INSTITUTE OF ENGINEERING AND TECHNOLOGY	Size	C And D	Designers Intent
4-19-2023 13:19:09	1 / 3	Dipali Jugadar	Fabtech Technical Campus COER Sangola	Geometric relationships	B. No tolerances	The functional requirements of the parts
4-19-2023 13:20:18	3 / 3	Sanjay Ashok Pawar	Fabtech Technical Campus COER Sangola	Geometric relationships	C And D	Designers Intent
4-19-2023 13:55:24	1 / 3	Prof. Satish N. Gadhave	Amrutvahini College of Engineering, Sangamner	Surface	C And D	Manufacturing instructions
4-19-2023 14:11:50	2 / 3	Hhhh	Ggg	Geometric relationships	C And D	The functional requirements of the parts
4-19-2023 14:15:13	3 / 3	Swapnil Vijaygir Gosavi	PES MCOE, Pune	Geometric relationships	C And D	Designers Intent
4-20-2023 11:41:08	3 / 3	Kanchan V Rajput	DYPIEMR	Geometric relationships	C And D	Designers Intent

4-21-2023 13:30:37	1 / 3	Dayanand Pandurang Yesane	Marathwada Mitra Mandal's Institute of Technology, Lohagaon, Pune	Geometric relationships	D. No communication on position , location and form relationships of features	Manufacturing instructions
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Timestamp	Score	Your Name	Organization's Name	The _____ is the closeness to true shape of the feature.	What are the three types Geometric controls of any feature in GD&T	A diameter symbol can be used in Feature control frame when a plane surface is being annotated	Statement : A Bend Radius of a Sheet metal Part is a Feature of size	Rule 1 only applies at	Size Tolerance are not applicable to Basic size Dimensions denoted in a box	The largest shaft and the smallest Hole denote a condition called as _____?	When Features control frame is attached to Size dimension on a drawing, it means the FCF is applied to _____.	The head of a Hexagonal bolt is a Feature of Size ?	In a drawing, a Shaft is annotated with the size dimension and tolerance alone. Does it mean that the form of the shaft is being controlled?
4-18-2023 14:11:32	6 / 11	Gajisj	Cesuj	Form	Form, Orientation and Location	TRUE	TRUE	MMC only	TRUE	Virtual condition	Axis of feature	TRUE	No
4-18-2023 14:12:23	11 / 11	RAHUL AUTADE	Fabtech engineering college, Sangola	Form	Form, Orientation and Location	FALSE	FALSE	MMC only	TRUE	Maximum material condition	Feature of Size	TRUE	Yes
4-18-2023 14:12:24	11 / 11	Shashikant Ganpat Mare	Fabtech College of engineering and Research, Sangola	Form	Form, Orientation and Location	FALSE	FALSE	MMC only	TRUE	Maximum material condition	Feature of Size	TRUE	Yes
4-18-2023 14:26:09	4 / 11	Jape Vaibhav Gangadhar	LOGMIER	Orientation	Size, Form, Location	FALSE	TRUE	LMC only	TRUE	Least Material condition	Feature of Size	TRUE	No
4-18-2023 14:40:31	4 / 11	Mayun Sanjay Mhaske	Dhole Patil College of Engineering Pune	Size	Size, Form, Location	TRUE	TRUE	Both LMC and MMC	TRUE	Maximum material condition	Feature of Size	TRUE	No
4-18-2023 14:44:07	10 / 11	Vikram Avhad	Dhole Patil College of Engineering Pune	Form	Form, Orientation and Location	FALSE	FALSE	MMC only	TRUE	Maximum material condition	Feature of Size	FALSE	Yes
4-18-2023 14:44:08	11 / 11	Dr. Ajay Chavan	Dhole Patil College of Engineering Pune	Form	Form, Orientation and Location	FALSE	FALSE	MMC only	TRUE	Maximum material condition	Feature of Size	TRUE	Yes
4-18-2023 14:44:17	11 / 11	Mayun Sanjay Mhaske	Dhole Patil College of Engineering Pune	Form	Form, Orientation and Location	FALSE	FALSE	MMC only	TRUE	Maximum material condition	Feature of Size	TRUE	Yes
4-18-2023 14:47:55	5 / 11	CHANDRASEKHAR REDDY	JNTUA COLLEGE OF ENGINEERING PULVENJULA	Location	Form, Orientation and Location	TRUE	TRUE	Both LMC and MMC	FALSE	Maximum material condition	Feature of Size	TRUE	No
4-18-2023 14:50:23	8 / 11	CHAGAM CHANDRASEKHAR REDDY	JNTUA COLLEGE OF ENGINEERING PULVENJULA	Form	Form, Orientation and Location	FALSE	FALSE	MMC only	FALSE	Maximum material condition	Feature of Size	FALSE	No
4-18-2023 14:52:05	9 / 11	CHAGAM CHANDRASEKHAR REDDY	JNTUA COLLEGE OF ENGINEERING PULVENJULA	Form	Form, Orientation and Location	TRUE	TRUE	MMC only	TRUE	Maximum material condition	Feature of Size	TRUE	Yes
4-18-2023 15:49:09	4 / 11	Deatray Mahadeo Hamdar	SVERIS COLLEGE OF ENGINEERING POLY. PANDHARPUR	Size	Size, Location and Orientation	TRUE	TRUE	Both LMC and MMC	FALSE	Maximum material condition	Axis of feature	TRUE	Yes
4-18-2023 16:36:01	3 / 11	Dipak sudam patil	LOGMIER Nashik	Size	Size, Form, Location	TRUE	TRUE	Both LMC and MMC	TRUE	Least Material condition	Axis of feature	TRUE	No
4-18-2023 16:52:57	3 / 11	Sachin Krishna Malave	Shimati Kashiba Navale College of Engineering Pune	Size	Size, Form, Location	TRUE	TRUE	Both LMC and MMC	FALSE	Maximum material condition	Feature of Size	FALSE	Yes
4-18-2023 17:01:37	6 / 11	Dr Ranjansh Ashok Deshmukh	Shivaji Polytechnic college sangola	Form	Form, Orientation and Location	TRUE	FALSE	MMC only	TRUE	Least Material condition	Axis of feature	FALSE	No
4-18-2023 17:17:14	5 / 11	Shekhar Sukhdev Wagmode	Smt Kashiba Navale College of Engineering Pune	Size	Size, Location and Orientation	FALSE	FALSE	LMC only	TRUE	Maximum material condition	Axis of feature	TRUE	No
4-18-2023 18:49:55	7 / 11	Gangaram Sitaram Bhosale	Shivaji Polytechnic college sangola	Form	Shape, size and mass	TRUE	TRUE	LMC only	TRUE	Maximum material condition	Feature of Size	TRUE	Yes
4-19-2023 10:49:07	7 / 11	SUDISH RAY	ALAMURI RATNAMALA INSTITUTE OF ENGINEERING AND TECHNOLOGY	Size	Form, Orientation and Location	TRUE	TRUE	Both LMC and MMC	TRUE	Maximum material condition	Feature of Size	TRUE	Yes
4-19-2023 12:44:58	7 / 11	Prof. Salig N Gadhave	Amrutvahini College of Engineering, Sangamner	Form	Form, Orientation and Location	TRUE	TRUE	MMC only	TRUE	Maximum material condition	Feature of Size	TRUE	No
4-19-2023 13:12:03	4 / 11	Dipali Jugadar	Fabtech Technical Campus COER Sangola	Orientation	Size, Form, Location	TRUE	FALSE	MMC only	FALSE	Maximum material condition	Axis of feature	FALSE	Yes
4-19-2023 13:16:29	11 / 11	Sanjay Ashok Pawar	Fabtech Technical Campus COER Sangola	Form	Form, Orientation and Location	FALSE	FALSE	MMC only	TRUE	Maximum material condition	Feature of Size	TRUE	Yes
4-19-2023 14:18:09	6 / 11	Bhh	Hhh	Form	Size, Form, Location	TRUE	FALSE	LMC only	FALSE	Maximum material condition	Axis of feature	TRUE	Yes
4-19-2023 14:18:57	11 / 11	Mr. Swapnil Vijaygir Gosavi	PES MCOE,Pune	Form	Form, Orientation and Location	FALSE	FALSE	MMC only	TRUE	Maximum material condition	Feature of Size	TRUE	Yes
4-20-2023 11:40:12	3 / 11	Kanchan V Rajput	DYPIEMR	Size	Size, Location and Orientation	TRUE	FALSE	LMC only	FALSE	Least Material condition	Axis of feature	TRUE	Yes
4-21-2023 13:22:42	9 / 11	Dayanand Pandurang Yesane	MArathwada Mitra Mandali's Institute of Technology, Lohgaon, Pune	Form	Form, Orientation and Location	FALSE	TRUE	MMC only	TRUE	Maximum material condition	Feature of Size	TRUE	No



Timestamp	Score	Your Name	Organization's Name	During inspection a part is rested on a surface plate for inspection. In this inspection what is the Datum feature simulator?	Surfaces which are in their shape should not be selected as primary datums.	While selecting a primary datum feature for a part, which factor out of following has to be taken into account as top most priority.	A Cylindrical Feature of size can be used as Primary datum.	Statement : The Tolerance zone properties varies with the Geometric control applied.	When Tertiary Datum feature is a cylindrical feature of size, what function does the datum do in locking the datum reference frame ?	A datum reference frame can be developed by applying all 3 datums (primary secondary and tertiary) to cylindrical features of sizes which all have axes parallel to each other. Is this statement correct or wrong?	A fixed datum reference frame is formed when all are constrained.
4-19-2023 13:43:29	4 / 8	Gwggw	Wyyw	The top surface of the Surface plate on which the part is rested	Large and Flat	The feature which has large area and would provide stability	Yes it can be used .	TRUE	Locks in movement axial to axis of FOS	Correct	Features
4-19-2023 13:44:48	8 / 8	Shashikant Ganpat Mane	Fabtech College of engineering and Research Sangola	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has large area and would provide stability	Yes it can be used .	TRUE	Locks in rotation	Wrong	Degrees of Freedom
4-19-2023 14:19:52	4 / 8	FI	Gg	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has the most number of edges	Yes it can be used .	FALSE	Locks in movement axial to axis of FOS	Wrong	Features
4-19-2023 14:20:58	7 / 8	Mr.Swapnil Vijaygir Gosavi	PES MCOE,Pune	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which is most functional but not necessarily the most stable	Yes it can be used .	TRUE	Locks in rotation	Wrong	Degrees of Freedom
4-19-2023 14:21:04	4 / 8	Prof Ashok Mache	VIT PUNE	The top surface of the Surface plate on which the part is rested	Large and Flat	The feature which has large area and would provide stability	Yes it can be used .	FALSE	Locks in movement axial to axis of FOS	Correct	Degrees of Freedom
4-19-2023 14:22:16	8 / 8	Prof Ashok Mache	VIT Pune	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has large area and would provide stability	Yes it can be used .	TRUE	Locks in rotation	Wrong	Degrees of Freedom
4-19-2023 15:52:21	5 / 8	Prof. Saisih N. Gadhave	Amrutvahini College of Engineering, Sangamner	The side surface of the part	Irregular and curved	The feature which has the most number of edges	Yes it can be used .	TRUE	Locks in movement perpendicular to axis of FOS	Wrong	Degrees of Freedom
4-19-2023 15:53:10	5 / 8	SHEKHAR SUKHDEV WAGHMUDE	Shrimati Kashibai Navale College of Engineering Pune	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which is most functional but not necessarily the most stable	Yes it can be used .	TRUE	Locks in movement axial to axis of FOS	Wrong	Dimensions
4-19-2023 15:55:14	4 / 8	Vikram Avhad	Dhole Patil College of Engineering	The top surface of the Surface plate on which the part is rested	Large and Flat	The feature which has large area and would provide stability	No it cant be used only flat surfaces can be used	TRUE	Locks in movement axial to axis of FOS	Correct	Degrees of Freedom
4-19-2023 15:59:40	7 / 8	Mayur Sanjay Mhaske	Dhole Patil College of Engineering Pune	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has large area and would provide stability	Yes it can be used .	TRUE	Locks in movement perpendicular to axis of FOS	Wrong	Degrees of Freedom
4-19-2023 16:04:56	3 / 8	CHAGAM CHANDRASEKHAR REDDY	JNTUA COLLEGE OF ENGINEERING PULIVENDULA	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which is most functional but not necessarily the most stable	Yes it can be used .	FALSE	Locks in movement perpendicular to axis of FOS	Correct	Features
4-19-2023 16:06:44	6 / 8	CHAGAM CHANDRASEKHAR REDDY	JNTUA COLLEGE OF ENGINEERING PULIVENDULA	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has large area and would provide stability	Yes it can be used .	FALSE	Locks in movement axial to axis of FOS	Wrong	Degrees of Freedom
4-19-2023 16:30:05	2 / 8	Dipak Sudam Patil	LoGMIEER, Nashik	The bottom surface of the part being rested	Large and Flat	The feature which is most functional but not necessarily the most stable	Yes it can be used .	TRUE	Locks in movement axial to axis of FOS	Correct	Dimensions





4-19-2023 16:39:40	5 / 8	Sachin Krishna Malave	Shrihari Kashibai Navale College of Engineering Pune	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which is having the least tolerance	Yes it can be used .	TRUE	Locks in rotation	Correct	Features
4-19-2023 18:39:34	3 / 8	Gangaram Sitaram Bhossale	Shivaji Polytechnic college sangola	The bottom surface of the part being rested	Irregular and curved	The feature which is most functional but not necessarily the most stable	Yes it can be used .	TRUE	Locks in movement axial to axis of FOS	Correct	Features
4-19-2023 18:43:25	8 / 8	Gangaram Sitaram Bhossale	Shivaji Polytechnic college sangola	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has large area and would provide stability	Yes it can be used .	TRUE	Locks in rotation	Wrong	Degrees of Freedom
4-19-2023 19:05:45	4 / 8	Dr. Ranjitsin Deshmukh	Shivaji Polytechnic college sangola	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has the most number of edges	Yes it can be used .	TRUE	Locks in movement axial to axis of FOS	Correct	Dimensions
4-20-2023 8:35:11	3 / 8	DATTATRAY MAHADEO INAMDAR	SVERI'S COLLEGE OF ENGINEERING POLY., PANDHARPUR	The bottom surface of the part being rested	Irregular and curved	The feature which is most functional but not necessarily the most stable	No it cant be used only flat surfaces can be used	TRUE	Locks in movement axial to axis of FOS	Correct	Degrees of Freedom
4-20-2023 8:37:10	8 / 8	DATTATRAY MAHADEO INAMDAR	SVERI'S COLLEGE OF ENGINEERING POLY., PANDHARPUR	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has large area and would provide stability	Yes it can be used .	TRUE	Locks in rotation	Wrong	Degrees of Freedom
4-20-2023 8:39:06	8 / 8	SUDISH RAY	ALAMURI RATNAMALA INSTITUTE OF ENGINEERING AND TECHNOLOGY	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has large area and would provide stability	Yes it can be used .	TRUE	Locks in rotation	Wrong	Degrees of Freedom
4-20-2023 11:49:56	5 / 8	Kanchan V Rajput	DYPIEMR	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has the most number of edges	Yes it can be used .	TRUE	Locks in movement axial to axis of FOS	Correct	Degrees of Freedom
4-20-2023 13:55:03	8 / 8	Dr. Ajay Chavan	Dhole Patil College of Engineering Kharadi, Pune	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has large area and would provide stability	Yes it can be used .	TRUE	Locks in rotation	Wrong	Degrees of Freedom
4-21-2023 13:03:05	7 / 8	Dayanand Pandurang Yesane	Marathwada Mitra Mandat's institute of Technology, Lohagaon, Pune	The top surface of the Surface plate on which the part is rested	Irregular and curved	The feature which has large area and would provide stability	Yes it can be used .	TRUE	Locks in movement perpendicular to axis of FOS	Wrong	Degrees of Freedom
4-21-2023 14:20:01	2 / 8	Sanjay Ashok Pawar	Fabtech Technical Campus COER Sangola	The bottom surface of the part being rested	Irregular and curved	The feature which has the most number of edges	No it cant be used only flat surfaces can be used	TRUE	Locks in movement perpendicular to axis of FOS	Correct	Features