

Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pun

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

Key Indicator: 2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning level of each student and then organizes dedicated program for advanced and slow learners.

Response

To get familiar with new environment of College/ Institute we organize induction program for first year and direct second year students. Students are given detailed information about examination structure, grading system, academic calendar and passing criteria.

1. Slow and advanced learner identification is done by each subject teacher by referring to the Policy designed for the same by College.

Learning level of student is studied as student comes from various backgrounds through centralized admission process.

Process for analyzing learning level of student is as follows:

- On basis of HSC marks for first year student and previous years marks for SE, TE and BE and class test-1 marks. Slow and Advanced learners are identified after one month of starting of academics.
- The student more than 75% marks are considered as advanced learner and student below 40% marks is considered as slow learner.

2. The various activities for slow and advanced learners are then conducted by the respective subject teacher.

Activities for slow Learners:

- 1. Remedial Coaching Classes
- 2. Prerequisites Lectures and Extra lecture for Slow Learners
- Provision of Question Paper Solutions, Hand –Written Notes, and Question Bank for all Subjects.
- 4. Personal Attention in Learning Levels through TG.

Activities for Advanced Learners:

1. NPTEL Videos Availability

- 2. Quiz Competition
- 3. Arrangement of Seminar / Workshop / Guest Lectures
- 4. Industry Sponsored Internships.

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7	Provision of Hand-Written Notes for Subject
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	Activities for Advanced Learners
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16	MOU's with Various Reputed Industries/Institutes

For more details click on following link

https://www.rajgad.edu.in/AQAR22-23/Cr2/2.2.1.pdf



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Principal Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engg. Dhangawadi, Pune-412206

1. Induction Program Rajgad Dnyanpeeth's



SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal - Bhor, Dist- Pune (Maharashtra)

Date: 05/11/2022

NOTICE

All staffs of First Year Engineering department are hereby informed that, staff meeting is schedule on 06/11/2022in H.O.D cabin at 1.00 pm to discuss about Induction programme schedule on 10/11/2022 to 18/11/2022.

Meeting Agenda:

- To discuss planning of arrangement of Induction programme conduction.
- Formation of different committee's for smooth conduction of induction function.
- Arrangement in seminar hall.
- About photo shoot.
- Hospitality of guests, students and parents.
- Discussion on annual awareness program on code of conducts.

Prof. A. R. Bobade **Event Co-Coordinator**



r. Kale HOD (FE) Head of Department First Year Ungineering Shri Chh. Shivajiraja College of Engg. Dhangawadi, Pune-412206

Prof. Dr. S. B. Patil Principal (SCSCOE) Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engg.,

Dhangawadi, Pune-412 205





Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

Date: 06/11/2022

NOTICE

All students, teaching and non-teaching staff are hereby informed that, Department of First Year Engineering of RD's SCSCOE organizing Induction Function Programme and annual awareness programme on code of conducts for First Year students from 10/11/2022 to 18/11/2022. All are instructed to participate. Attendance is compulsory to all.

Prof. A. R. Bobade

Event Co-Coordinator

Prof. J. G. J

HOD (FE) Head of Department First Year Engineering Shri Chh. Shivajiraja College of noos Dhangawadi, Pune-412206

Prof. Dr. S. B.

Principal (SCSCOE)

Principal Rajgad Dnyanpeeth's Shrì Chhatrapati Shivajiraje College of Engg., Dhangawadi, Pune-412 205



Rajgad Dnyanpeeth's



SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal - Bhor, Dist-Pune (Maharashtra)

INDUCTION PROGRAM

DEPARTMENT: F.E

CLASS: F.E 2022-23

TITLE/TOPIC: Induction Program and Annual awareness Program on Code of Conducts.

DATE: 10/11/2022 to 18/11/2022

DURATION OF EVENT: 5hrs per day

STUDENT/ STAFF PRESENT: 124/15

DEPARTMENT CO-ORDINATOR: Prof. A. R. Bobadc

OBJECTIVE: To create awareness in the young minds of the students regarding the unity in diversity & to reduce stress on students. Starting with the new academic session, colleges will greet every student with a 1 week-long 'induction programme' before they start on any study of Engineering semester.

The term induction is generally used to describe the whole process whereby the incumbents adjust to or acclimatize to their new roles and environment. In other words, it is a well-planned event to educate the new entrants about the environment in a particular institution, and connect them with the people in it.

The induction program of Department of First Year Engineering for Sem I of Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering, Dhangwadi was held on between 10/11/2022 to 18/11/2022.





On the first day Thursday, 10/11/2022 of Induction Programme, students reported to college. Registration & welcome of students are done.

DAY -1

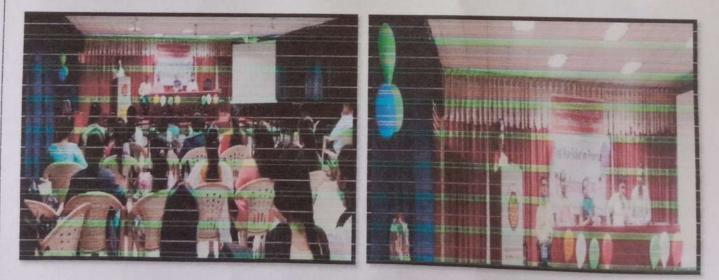
F.E

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The Chief guest for this event is Prof. Udaysheth Gujar ji, also the Principal of RD's SCSCOE Prof. Dr. S.B. Patil & all of the head of departments were present. After this the warm welcome of all the dignitaries was done by the students. In the beginning Saraswati Pujan & Deep Prajwalan is done by Chief Guest, Respected Principal & HOD's of all departments.



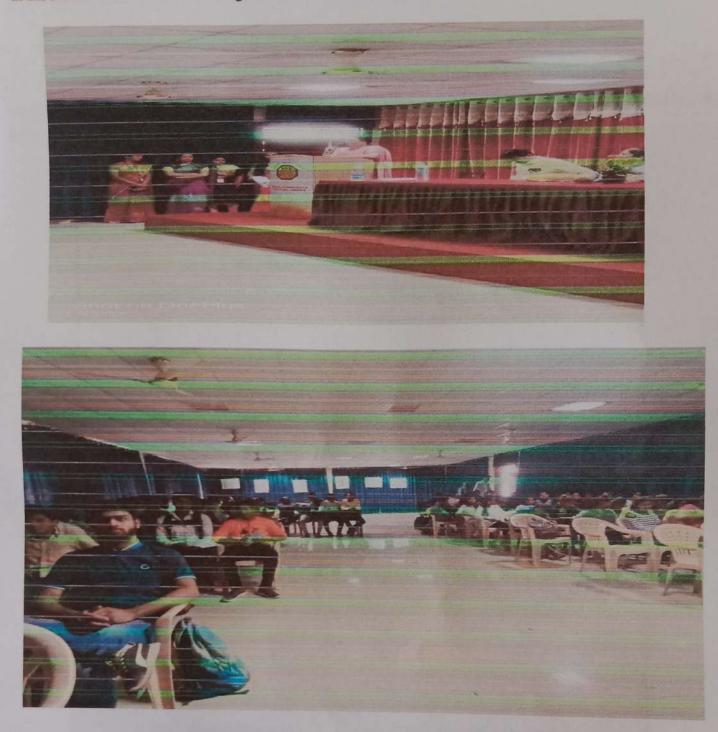
Chief Guest Mr. Udayseth Gujar ji addressed students



Class teachers and TG interacted with newly admitted students



In this session Prof.J.G. Kale discussing the code of conducts and giving brief information about college.



Prof. J.G.Kale(F.E. HOD) Discussing Code of Conduct

At the end of the day, Vote of Thanks is given by Prof. B.P. Tapare from first year department & anounced the end of the programme for the day.



On the Second day Friday, 11/11/2022 of Induction Programme, students reported to college.Students went to visit to local places such as Balaji temple, Kapurhol, & Baneshwar temple, Baneshwar etc. to get familarize the environment nearby college



Visit at Balaji Temple, Kapurhol





DAY 2

Visit at Baneshwar Temple, Baneshwar



DAY 3

F.E Deptt.

ON # BU

On third day Monday, 14/11/2022 of Induction Programme, students reported to college. Guest Lecture by Prof. M. K. Ahirao arranged for the students on the topic of "Tips to improve Mind Power"





In Afternoon session fun fair activities are arranged & all are encouraging students to participate in most of the activities.



Funfair activities



DAV-1

F.E

On Fourth day Tuesday, 15/11/2022 of Induction Programme, students reported to college. Expert Lecture by Prof. S. S. Salunkhe



Guidance by Prof. S. S. Salunkhe

In the afternoon session, Students are introduced to technical activities. This session helped students to enhance their ideas beyond their limit. The name of Session is 'Poster Presentation Competition'. For this topic is already given to students. Once the poster were completed exhibition for posters are arranged. Many staff & students of other departments were visited for exhibition. At the last, presentation of their respective posters was given by students & top three posters were selected.



Poster Presentation Competition



DAY- 5

F.E. Deptt.

S.ON # BU

On Fifth day Wednesday, 16/11/2022 of Induction Programme, students reported to college. Expert lecture about online courses, E- resources, Introduction to paper publication, Project by students (Curiculum & apart from curiculum) by Prof. T. M. Dudhane has been conducted in the morning session for students & in afternoon session of same days the technical activities such as Group discussion, quiz competition &debate competition has been conducted.





Prof. T. M. Dudhane addressing students

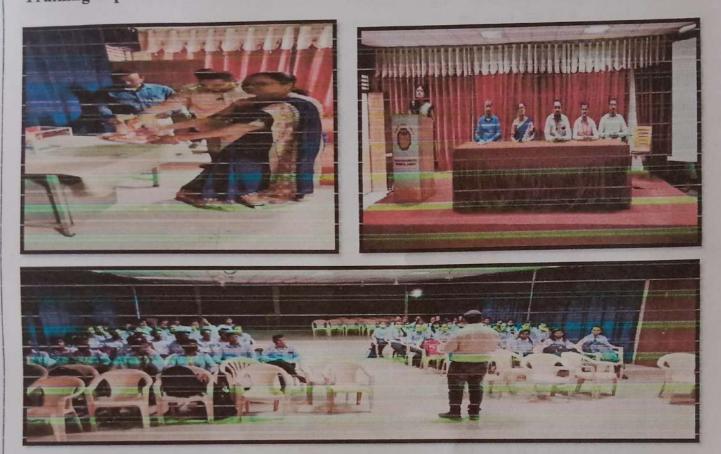


Students participated in Group discussion, quiz competition & debate competition



DAY-6

On Sixth day Thursday, 17/11/2022 of Induction Programme, students reported to college. Expert Lecture by Prof. Dr. S. D. Pasalkar sir arranged for the students on the topic of 'Training & placement in institute'.



Prof. Dr. S. D. Pasalkar sir addressing students



In the afternoon session, Students are engaged in "Swachata Abhiyan" at Adbalnaath Temple, Dhangwadi.

Deptt.

ON * BI



DAY-7

On the Seventh day i.e. on Friday 18/04/2022 the department of First Year Engineering organized the visit to Science Park located at Pimpri Chinchwad for students. The Science Park is a non-formal educational institution to communicate developments in Science & Technology among the masses, and encourage creativity and spirit of enquiry among the students. Apart from providing effective environment for non-formal science education Pimpri Chinchwad Science Park is sure to enthuse and excite the people especially students of the region creating awareness on important topical issues in science, technology and engineering.

The Science park Pimpri Chinchwad (PCMC) consist of 4 galleries -

- 1. Automobile gallery Showing the journey in automobile engineering from the invention of a wheel to the latest developments
- 2. Energy gallery Showing exhibits on energy, such as solar, mechanical, electrical, etc.
- 3. Fun science galleryShowing entertainment, science and computers, to understand the basic principles in physics, mathematics, geography, geology, chemistry, bio-sciences and electrical engineering,
- 4. Climate Change gallery It will also have exhibits of dinosaurs as well as inflatable dome planetarium with a seating capacity of 15 to 20. Basic information about astronomy, stars and planets.







In this way, Rajgad Dnyanpeeth's Shri Chhatrapati College of Engineering organized & conducted the induction function for first year students in the starting of Semester I of A.Y. 2022-23.

Prof. A. R. Bobade

Event Co-Coordinator



Prof. J. G. Kale

HHQD (FE) First Year Engineering Shri Chh. Shivajiraja College of Engg Dhangawadi, Pune-412206

Prof. Dr. S. B. Patil

Principal (SCSCOE)

Principal Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engg., Dhangawadi, Pune-412 205



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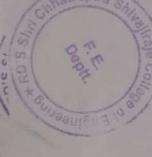
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First Year Engineering Chh. Shivajuraje College of Dhangawadi, Pune-4 12200	epartme

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Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering S.No.237, Dhangwadi, Tal-Bhor, Dist-Pune

DEPARTMENT OF CIVIL ENGINEERING

Academic Year (22-23)

Policy for Advanced and Slow Learners based on Percentage:

- 1) Students who secured more than 75% in previous End semester and Unit test Score is above 20 marks are grouped under the category of Advanced Learners.
- 2) Students in the range 51% to 74% are grouped as Average Learners.
- Students who obtained below 50% in previous End Sem and Unit test score below 12 are grouped under slow learners.

Policy for Advanced and Slow Learners based on SGPA:

- 1) Students whose previous End Semester results are above 7.5 SGPA and Unit Test I score is above 20 marks are classified Advanced Learners.
- 2) Students below 7.4 SGPA are classified as Average Learners.
- Students who have 2 or more backlog in previous End semester results ad Unit Test I score is below 12 marks are grouped as Slow Learners.



	SHRICHHA S No 237, Satara-	TRAPAT Pune NII-	I SHIVAJ 4. Dhanga	SIRI CHIATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING No 237, Satara-Pune, NI14, Dhangawadi, Lal Bhor, Dist Pune-412205 (MS), India	E OF ENG is: Pune 412	NEERING 205 (MS) India			
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Total % Weightage (out of 100)	11	78	83	85	65	84	81	83	63	51	86	74	91	74	52	95	57	26	59	88	83	67	60	99	10	80	65	63	50	11	58	62	57	62	78	11
25% Weightage	13	18	18	23	18	15	81	15	15	13	15	18	23	15	13	23	13	10	13	18	13	15	15	15	10	18	15	15	15	01	18	13	15	15	10	51
Observation 25% (on the Scale of 1- Weightage 10)	5	7	7	6	7	6	7	6	6	5	9	7	6	9	5	6	5	4	5	7	5	9	6	9	4	7	6	9	9	4	7	5	9	6	4	4
25%n Weightage	23	23	22	22	20	23	24	22	0	22	23	22	22	21	22	22	22	0	22	22	22	22	21	21	0	22	22	22	_	21	21	22	5	23	22	11
Overall of Marks in Previous Exam (SGPA)	6	9.04	8.78	8.87	7.96	9.04	9.43	8.7	1 ATKT	8.87	9.04	8.91	8.91	8.52	8.7	8.96	8.96	2 ATKT	8.87	8.87	8.87	8.87	8.39	8.35	ATKT	8.87	8.87	8.87	8.87	8.39	8.35	8.87	8.91	60.6	8.83	8 96
50% Weightage	42	38	44	40	28	46	40	46	48	16	48	34	46	38	81	50	22	AB	24	48	48	30	24	30	0	40	28	26	34	40	20	44	40	24	46	UV
Unit Test I (Out of 25)	21	61	22	20	14	23	20	23	24	∞	24	17	23	19	6	25	П	AB	12	24	24	15	12	15	AB	20	14	13	17	20	10	22	20	12	23	10
Name of Student	BC119E036 LOKHANDE VAIBHAV DILIP	MADGUDE SANKET RAJARAM	MAHANGARE PRATIK SUDAM	MANE AMIT JAGDISH	MANE NAVANATH SOMANNA	MOHITE OMKAR SAMBHAJI	MOHITE SHITAL SHAMARAO	BCI20D043 MORE GOURI PRAVIN	NIGADE ATHARVA VIJAY	PANASARE SHUBHAM NAVANATH	PAWAR SAYALI RAVINDRA	PAWAR VISHAL SANJAY	PAYGUDE SHUBHAM SANJAY	BCI20D049 PHARANDE ATISH ASHOK	PISAL PRATIBHA UMESH	PISAL SNEHAL CHANDRASHEKHAR	POWAR NAMDEV TIMANNA	BCI20D053 RAUT SHUBHAM SANJAY	SHILIMKAR MONIKA UDAY	BCI19F055 SHINDE ADITYA NANDKUMAR	SHINDE SHIVANI ASHOK	SHINDE SONAM SUBHASH	SURYAWANSHI ROHIT RAJENDRA	TANK KARTIK CHANDRAKANT	TARU GANESH KRUSHNAKANT	WADMARE ROHIT ISHVAR	BCI16D062 KARCHUNDE RAMESH SUNDERRAO	BCI16D063 TARU SACHIN ASHOK	BCI20D064 NIGADE SANDESH SURESH	BCI20D065 BARGE ABHIJEET SUNIL	BCI20D066 NAVGHANE SOURABH SOPAN	BC120D067 GIRIGOSAVLJYOTI BALU	BCII7F068 KAVACHAT DATTATRAYA ABHIMAN	RANGOLE PRANIT DNYANESHWAR	RC12010070 KSHIRASAGAR GAJENDRA SAMBHAJI	
Roll No.	BC119F036	BC120D037	-	BC120D039	BC120D040	-	BC120D042	3C120D043	BCI20D044	BCI20D045	BC120D046	BCI19F047	BC120D048	3CI20D049	BCI20D050		BC120D052	3C120D053	BCI19F054	3C119F055	BC120D056	BC120D057	1		BC120D060	BC120D061	SCI16D062	3C116D063	3C120D064	BC120D065	3C120D066	BC120D067	BCI17F068	BC114T069	BCD0D070	

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Civil Engg.

Regeneration in S

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Signature of Faculty (Providence)

3. List of Advanced and Slow Learner



Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune

DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2022-23 Semester : 11

LIST OF SLOW LEARNERS

ass: B.E		Subject:QSCT
Roll No.	Name of the Student	Total % Weightage Based on Parameter (out of 100)
BCI20D013	CHAVAN ROSHAN NAMDEV	21
BC119F018	DHADVE NIKHIL DILIP	35
BCI20D020	GADE ROHAN RAJENDRA	31
BCI20D035	KUKADE MANOJ ARVIND	36
BCI20D053	RAUT SHUBHAM SANJAY	26

Note Total percentage less than or equal to 45% are the Slow learners

Faculty Sign Property.







Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune

DEPARTMENT OF CIVIL ENGINEERING Academic Year : 2022-23

Semester : II

LIST OF ADVANCED LEARNERS

lass: B.E	Subje	ect: QSCT
Roll No.	Name of the Student	Total % Weightage Based on Parameter (out of 100)
BCI20D016	CHOUGULE OMKAR BALASAHEB	88
BC120D029	KARALE PRAVIN SUDHIR	95
BCI20D046	PAWAR SAYALI RAVINDRA	86
BC120D048	PAYGUDE SHUBHAM SANJAY	91
BCI20D051	PISAL SNEHAL CHANDRASHEKHAR	95
BC119F055	SHINDE ADITYA NANDKUMAR	88







4. Extra lecture for Slow Learners

Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune -412205 (MS), India.

DEPARTMENT OF CIVIL ENGINEERING

Academic Year : 2022-23, Semester - II

SCHEDULE OF SLOW LEARNER ACTIVITIES

Class : B.E

Course : Quantity Surveying, Contracts and Tenders

Name of Faculty: Prof.P.G.Gaikwad

Lecture No.	Date	Time	Activity	Topic/Unit Covered
I	25/03/2023	11 Am-1.00 Pm	Extra lecture	Tendres & Tenders Document
2	25/03/2023	11 Am-1.00 Pm	Extra lecture	Contacts
3	15/04/2023	11 Am-1.00 Pm	Extra lecture	Arbritrator
4	15/04/2023	11 Am-1.00 Pm	Extra lecture	Estimation & Its Methods

Praind. Sign of Faculty





Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING S No. 237, Satara-Pune, NH-4, Dhangawadi, Tal Bhor, Dist Pune

DEPARTMENT OF CIVIL ENGINEERING

Academic Year : 2022-23

ATTENDANCE OF SLOW LEARNERS

Semester : II

(lass:	B.E

Roll No.	Name of the Student	25/03/2023	25/03/2023	15/04/2023	15/04/2023
BC120D013	CHAVAN ROSHAN NAMDEV	Р	Р	Α	Р
BC119F018	DHADVE NIKHIL DILIP	р	Р	Р	А
BC120D020	GADE ROHAN RAJENDRA	Р	A	Р	Р
BC120D035	KUKADE MANOJ ARVIND	Р	Р	А	Р
BC120D053	RAUT SHUBHAM SANJAY	р	Р	Р	А

Prain Faculty Sign.



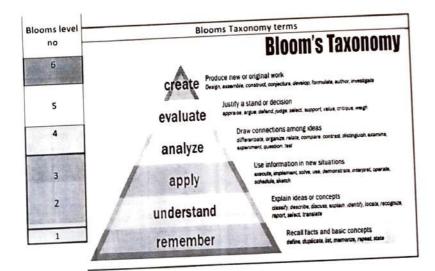




DEPARTMENT OF CIVIL ENGINEERING

Semester - II Academic Year : 2022-23

lass :	ASSIGNMENT TO ADVANCED LEARNE BE Quantity Surveying, Contracts and Tenders	Maximum Marl Name of Faculty	ks: /: Prof.P.G.G	aikwad
ourse :	assessment declaration Date by faculty (on or before):			
Question	Question Statement	CO Mapping	Blooms Level	Marks
No.	Define Estimate.State the purpose of estimation	CO I	1	
1	Define Estimate.state the parpert			
2	Explain in brief A) Supplimentary Estimate B) Revised Estimate	CO 2	1	
3	State the detailed classific fation of Estimate What is the objective of prepring prliminary estimete	CO 3	1	
4	Prepare typical format of measurement sheet & abstract sheet for detailed estimate	CO 4	I	
5	What is mean by contigencies? How much provision is made for contigencies while preparing estimate.	CO 5	1	
6	What are the different data is neccesary for preparing the estimate? What information is available from such data?	CO 6	1	
7	Prepare approximate estimete for proposed commercial complex for shopping mall with the following details- Plinth are 1000sqm/floor, height o each floor 4m ; No of storey G+2, cubical content rate Rs 3000/meter sq. 1) Water supply & Sanitary Connection 10% 2) Electrical Connection at 7% 3) Road & Lawn 5% 4) architectural Finish a 3%.	CO 7	1	
8	Write brief Description as required in the requirement & billing of any item.	CO 8	1	



Note:

- 1. Example demonstrate the method for filling the data
- 2. Blooms Taxonomy is provided for Ready Reference



Sub Incharge sign:

Praind.

Sign of Facult

Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune -412205 (MS), India.

DEPARTMENT OF CIVIL ENGINEERING

Academic Year :2022-2023

Semester : II

PERFORMANCE IMPROVEMENT OF SLOW LEARNERS

Class:	BE	Subject:	: QSCT			
Roll No.	Name of the Student	Total % Weightage Based on Parameter (out of 100)	Marks Obtined in Online/ Insem Exam (out of 30/50)	Marks Obtianed in End Sem Exam (out of 50/70)	Total Marks (out of 100)	Improved / Not Improved
BCI20D013	CHAVAN ROSHAN NAMDEV	21	18	48	66	Improved
BC119F018	DHADVE NIKHIL DILIP	35	20	48	68	Improved
BCI20D020	GADE ROHAN RAJENDRA	31	12	43	55	Improved
BCI20D035	KUKADE MANOJ ARVIND	36	17	33	50	Improved
BC120D053	RAUT SHUBHAM SANJAY	26	19	38	57	Improved



Pairod.



5. Prerequisites Lectures for Subject

Rajgad Duvanpeeth's

SHRECHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

8. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal. Bhor, Dist: Pune -412205 (MS), India.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Academic Year: 2022 -23 , Semester - II

THEORY TEACHING RECORD (TEACHING PLAN)

Course Code : 404190 Class:BE		Name of Faculty: Prof. Bandal J. J.				
Course Name: Fiber Optic Comm	unication	Teaching Scheme:	Th: 3 Hrs/week			

							Remarks of	Moni	tored by
Lr. No.		Topics to be Delivered		CO	Date of Plan	Date of Conduction	Faculty (incase of variance)	AMC	ног
			UNIT	1 : UNIT NA	ME				
ħ	1.1	Prerequisite Fundamentals of Optical Communication EM spectrum - Optical Spectral bands, Shannon channel capacity, power units (watts, dB & dBm). Block diagram of optical fiber communications link, advantages of optical fibers.			23/1/23 to 25/1/23	23/1/23		Þ	m
2	1.2	Optical Fiber Waveguides:Introduction. Total internal reflection, acceptance angle, numerical aperture, fiber types	'EO 404190.1	CO vali aje Co	30/1/23	30/1123		×	Im

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L.r.		Topics to be Delivered					Remarks of	Moni	itored by								
N0.				CO	Date of Plan	Date of Conduction	Faculty (incase of variance)	AMC	пор								
a.	1.3	mode theory for circular waveguides: overview of modes & key modal concepts (V number, number of modes, power in clad), single mode fibers, cutoff wavelength			311123	31/1/23		¥	Ing								
4	1.4	Transmission characteristics of optical fibers: attenuation			112123	1/2/23		B	ang								
5	1.5	Transmission characteristics of optical fibers: attenuationmaterial absorption, scattering losses, fiber bend loss, loss due to fiber misalignment, splices and connectors:			2/2/23	2/2/23		¥.	Ang.								
6	1.6	signal distortion - intermodal delay, intramodal dispersion or chromatic dispersion.			6/2/23	6/2/23		Æ	Inoz								
7	1.7	modal delay, bit rate-distance product, plot of material & waveguide dispersions for standard single mode.	CEO 404190.1	CO 404190.1	712123	712123		386	tra								
8	1.8	dispersion shifted and dispersion flattened fibers: optical fibers for 5G networks, comparison.											8/2/23	8/2/23		5th	and
			UNIT 2	: Optical Sour	ces			-									
9	2.1	Optical Sourcest Introduction, wavelength and material consideration (direct & indirect bandgap semiconductors); requirements from optical sources for telecommunication	Lapali S.	ESTC ESTC ESTC ESTC ESTC ESTC ESTC ESTC	912123 & 1312123	9 2 23 & 3 2 23		X	(AR)								

T							Remarks of	Monit	ored by
Lr. No.		Topics to be Delivered	CEO	CO	Date of Plan	Date of Conduction	Faculty (incase of variance)	АМС	HOD
10		1.1 D: principle of working, quantum efficiency, optical output power characteristics.			1412123 & 1512123	14/2/23 8/ 15/2/23		JES	m
1.1	2.3	spectral width, effect of temperature on characteristics, modulation bandwidth	s1.c) 404190	CO 404190.2	16/2/23	6/2/23		A	Find
12	2,4	analog modulation, digital modulation, LED analog transmitter;		-	20/2/23	20/2/23		F	and
13	25	Semiconductor Laser Diodes: absorption, spontaneous emission, stimulated emission			21/2/23	21/2/23		A	The
14		concept of population inversion and optical feedback, output power characteristics of LASER:			27/2/23	27/2/23		Æ	In
15	2.7	Bias point and amplitude modulation range for analog applications of LEDs & laser diodes, comparison of LEDs & Lasers.			113123 2)3/23	113/23 2/3/23		A	That
		unders, companison of LE175 & Easers.	UNIT 3	3 : Photodetect	ors				
176	3.1	Introduction, requirements from optical detectors, material considerations, types: p-			613123	613123		Æ	and
17	3.2	Avalanche photodiode, photo transistor, principle of working, quantum efficiency			913123	913123		50	Angle
18	3.3	responsivity, long cutoff wavelength.	CEO 101100 3	CO 404190.3	1313123	13 3123		i goo	gros
1]	3.4	detector response time, comparison of photodetectors.	CEO 404190.3	0 404190.5	1413123	1413/23		- Aris	(100)
20	3.5	thermal noise: dark current noise.			1513123	1513123		The	gros
21	3.0	quantum noise and receiver sensitivity, bit error rate			1613123	16)3123		75	Ima
		UNIT 4	: Fiber Optic	Haje 6 Design &	& WDM System	S			
22		Point to point optical link: Choice of components, system design considerations,	Silledy	FRTC P	20/3/23	2013/23		Dad	TID
2 3		optical power budget, rise time budget, bit rate for RZ and NRZ pulse format.	Chhate	gineen	20 3 23 21 3 23	2113123		1-20	
			ins . O	d + auné du d					

4.4	Topics to be Delivered Optical system design and performance analysis using software tools, WDM Concepts & Components: Overview of WDM, WDM components; 2 x 2 fiber coupler, isolator, circulator, basics of fiber grating filters. optical add/drop multiplexer	CEO CO CEO CO 404190,2	Date of Plan 23]3]23 27]3]23 28]3]23	Date of Conduction 23 3 23 27 3 23	Remarks of Faculty (incase of variance)	Monito AMC	HOD
4.4	Optical system design and performance analysis using software tools. WDM Concepts & Components: Overview of WDM, WDM components: 2 x 2 fiber coupler, isolator, circulator, basics of fiber grating filters.		23/3/23 27/3/23	Conduction 23 3 23 27 3 23	(incase of	AMC	HOD
4.4	 analysis using software tools, WDM Concepts & Components: Overview of WDM, WDM components; 2 x 2 fiber coupler, isolator, circulator, basics of fiber grating filters. 	CT-O 404190.2 (*O 404190)2	2713123	2713/23)	
4,4	 WDM Concepts & Components: Overview of WDM, WDM components; 2 x 2 fiber coupler, isolator, circulator, basics of fiber grating filters. 	CT-O 404190.4 C(0.404190,4	2713123	2713/23			
4.5	2 x 2 fiber coupler, isolator, circulator, basics of liber grating lilters.	стю 404190.2 сто 404190,2	2813123				
4.6	optical add/drop multiplana			28/3/23			
			2913123	2913123		6	
4.7	architecture of optical amplifiers (SOA, EDFA & FRA).		10/4/23	10/4123		T	
4.8	Noise figure, OSNR & system impact of ASE.		1214123	12/4/23			
		UNIT 5 : Optical Net	works			1	
5.1	Optical Network concepts: fundamentals, network terminology, desirable properties		1314123	13/4/23			
2	elements of an optical network, optical network topology types, advantages of optical network.		1714123	1714123		A	(A)
5.3	Overview of Optical Networks: FDDI	CEO 404190.5 CO 404190.5	1814123	18/4/23		1 apr	
5,4	SONET/SDH. FTTX, FTTP						
5.5	FTTH, PON, GPON, Long haul,		20/4/23				
.6	Metro, Access, Submarine optical networks	Chivalitaje Collega	2414123	24/4/23			
	role of fiber optic network in the 5G networks, Current technology trends, standards and challenges.	The Store of Engineer	25 4 23	2514123			
	4.8 5.1 5.3 5.4 5.5 6	 EDFA & FRA). Noise figure, OSNR & system impact of ASE. 5.1 Optical Network concepts: fundamentals. network terminology, desirable properties elements of an optical network, optical network topology types, advantages of optical network. 6.3 Overview of Optical Networks: FDDI 5.4 SONET/SDH, FTTX, FTTP 5.5 FTTH, PON, GPON, Long haul, Metro, Access, Submarine optical networks role of fiber optic network in the 5G networks. Current technology trends. 	 EDFA & FRA). Noise figure, OSNR & system impact of ASE. UNIT 5 : Optical Network concepts: fundamentals. network terminology, desirable properties elements of an optical network, optical network topology types, advantages of optical network. Overview of Optical Networks: FDDI SONET/SDH, FTTX, FTTP FTTH, PON, GPON, Long haul, Metro, Access, Submarine optical networks role of fiber optic network in the 5G networks. Current technology trends. 	EDFA & FRA).10/41/234.8Noise figure, OSNR & system impact of ASE.12/4/23UNIT 5 : Optical Networks5.1Optical Network concepts: fundamentals. network terminology, desirable properties13/4/23elements of an optical network, optical network topology types, advantages of optical network.13/4/232optical network.17/4/235.3Overview of Optical Networks; FDDICEO 404190.5 CO 404190.55.4SONET/SDH, FTTX, FTTP19/4/235.5FTTH, PON, GPON, Long haul.29/4/23	EDFA & FRA).1614123161412316141234.8Noise figure, OSNR & system impact of ASE.12141231214123UNIT 5 : Optical Networks5.1Optical Network concepts: fundamentals. network terminology, desirable properties13141231314123elements of an optical network, optical network topology types, advantages of optical network.131412313141232optical Network splical network topology types, advantages of optical network.131412317141235.4SONET/SDH, FTTX, FTTPEEO 404190.5 CO 404190.5181412318141235.5FTTH, PON, GPON, Long haul.291412329141232914123	FDFA & FRA). 1614123 1614123 Noise figure, OSNR & system impact of ASE. 1214123 1214123 VINIT 5 : Optical Networks 1214123 1214123 Optical Network concepts: fundamentals. network terminology, desirable properties 1314123 1314123 elements of an optical network, optical network. 1314123 1314123 1314123 optical network. 1314123 1314123 1314123 1714123 1714123 1714123 1714123 1814123 1814123 1814123 1814123 5.3 Overview of Optical Networks; FDDI CEO 404190.5 CO 404190.5 1814123 1814123 5.4 SONET/SDH, FTTX, FTTP 1914123 1914123 1914123 1914123 5.5 FTTH, PON, GPON, Long haul, 2014123 2014123 2014123 2014123	EDFA & FRA). 10/4/23 10/4/23 10/4/23 4.8 Noise figure, OSNR & system impact of ASE. 12/4/23 12/4/23 12/4/23 UNIT 5 : Optical Networks UNIT 5 : Optical Networks Optical Network concepts: fundamentals. network terminology, desirable properties elements of an optical network, optical network. 13/4/23 13/4/23 13/4/23 2 optical network. 13/4/23 13/4/23 14/4/23 14/4/23 5.3 Overview of Optical Networks: FDDI CEO 404190.5 CO 404190.5 18/4/23 18/4/23 19/4/23 5.4 SONET/SDH, FTTX, FTTP EO 404190.5 CO 404190.5 CO 404190.5 19/4/23 19/4/23 19/4/23 5.5 FTTH, PON, GPON, Long haul, CEO 404190.5 CO 404190.5

Lr.							Remarks of	Monite	red by										
No.		Topics to be Delivered		CEO CO		Date of Conduction	Faculty (incase of variance)	AMC	HOD										
			UNIT 6 : Opt	ical Fiber Mea	surements														
3₩	6.1	Overview of Measurement Standards for fiber optics: Test I quipments for field work: Test support lasers			26/4123	26 41 23		7											
38	6.2	visual fault indicator, optical power meter. Optical Time Domain Reflectometry (OTDR).			27/4/23	27/4/23		-J											
39	6.3	optical spectrum analyzer (OSA). BER test equipment	2 1 () 404190.(c1:0:404190.(C1:() 404190.(C] () 404190.	C]:() 4()4[9().	.1.().40419().	L1:0 404190.(C1.0.404190.0	C1:() 404190.(.1:0 404190.(.1:() 404190.(CO 404190.6	115123	115123			Iva
40	6.4	Measurements: measurement of: optical power, numerical aperture of fiber			215123	315123		2	(10B										
+ t	6.5	fiber attenuation (cutback method, insertion loss method, OTDR), macrobending loss, fiber dispersion			415123 815123	415123 8/5/23		1 A											
+2	6.6	System performance evaluation: Eye Diagram Test, study of OTDR,			1015123 1515123	15/5/23													

Text Books:

1 Gerd Keiser, "Optical Fiber Communications" 4th Edition, Tata McGraw Hill, 2 John M Senior, "Optical Fiber Communications" 2nd Edition, PHI,

Reference Book:

Djafar K Mynbaev and Lowell L Scheiner, "Fiber Optic Communications Technology", 1st Edition, Pearson Education.

2 Uyless Black, "Optical Networks- Third Generation Transport Systems", Pearson Education.
3 Govind P Agrawal, "Fiber Optic Communication Systems", 3rd Edition, Wiley India.
4 Fredrick C Allard, "Fiber Optic Flandbook for Engineers & Scientists", MH International

Start of Semester	Shive ESTC	End of Semester	
Signature Da	ate 🗧 Er-39. 😫	Signature	Date
Course Faculty :	Big 2 2 ment ES Depti.	Course Faculty : Ju	Head & blagarunent
10D (matchine Dept. of E& TC Engin	leering Sean aund	HOD (Maline	Beption 58 TC Bugineering 5 Cht. Shivajiraji olege or Eng
Dhangawadi. Ou a 1			Dhangawadi, Pro- 412 154

6. Question Paper with Solution

Total No. of Questions : 8]

P-607

SEAT No. :

[Total No. of Pages : 3

IMax. Marks: 70

ET-1

[6004]-556

B.E. (E & TC)

Fiber Optic Communication

(2019 Pattern) (Semester - VIII) (404190)

Time : 21/2 Hours]

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

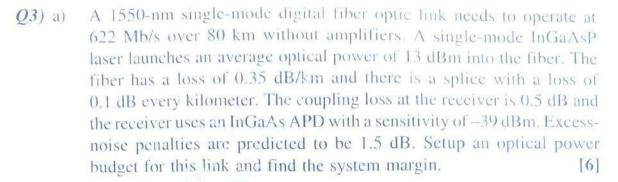
Q1) a) A photodiode has a quantum efficiency of 65% when photons of energy 1.5×10^{-19} J are incident upon it. [6]

- i) at what wavelength is the photodiod? operating?
- ii) Calculate the incident optical power required to obtain a photocurrent of 2.5 μA.
- b) Define the quantum efficiency and the responsivity of a photodetector. Give the mathematical equations for the same. [6]
- c) Compare PIN diode with APD (any 3 points).

OR

- Q2) a) An InGaAs PIN photodiode has the following parameters at a wave length of 1300 nm: $I_D = 4 \text{ nA}$, $\eta = 0.90$, $R_L = 1000\Omega$, and the surface leakage current is negligible. The incident optical power is 300 nW (-35 dBm) and the receiver bandwidth is 20 MHz. Find the following noise terms of the receiver.
 - i) The mean-square dark current
 - ii) The mean-square thermal noise current
 - b) What is a photodetector? Discuss various requirements of a photodetector to be used in optical communication. [6]
 - c) With the help of diagram explain working of p n photodiode. Draw its output characteristics.
 [6]

[6]



ų,

[6]

- b) Draw and explain simplex point to point optical link. [6]
- c) Illustrate the working of optical amplifier. Enlist the semiconductor materials used for active medium in DFAs. [6]

OR

- Q4) a) Sketch and explain implementation of a typical WDM network. Enlist some of the active WDM components. [6]
 - b) A digital optical fiber system uses an RZ pulse format. An optical fiber link is required to operate over a distance of 10 km without repeaters. The fiber available exhibits a rise time due to intramodal dispersion of 0.2 ns/km. in addition the APD detector has a rise time of 1 ns. Estimate the maximum rise time allowable for the system, if the source has a rise time of 4 ns in order for the link to be successfully operated at a transmission rate of 40 Mbps. [6]
 - c) Describe Optical power-loss model. Draw a neat diagram for the same.
- Q5) a) With the help of diagram explain various elements used in optical networks. Explain the modularity and scalability features of an optical network.
 - b) What are the corresponding levels and bit rates for SDH and SONET?Draw and explain STS-1 frame structure. [6]
 - c) i) Calculate how many 64-kb/s voice channels can be carried by an STS-3, STS-48, and STS-192 system.
 - ii) How many 20-Mb/s digitized video channels can be transported over STS-3 systems? [5]

OR

[6004]-556

2

- Draw and explain general structure of a passive optical network (PON). 06) a)
 - Compare EPON, APON and GPON (any 3 points). [6] b)

[5]

[6]

- Explain the following w.r.t. SONET. C)
 - Structure i)
 - Operation ii)
 - Advantages iii)
- Enlist widely used optical system test instruments and explain their (07) a) [6] functions.
 - Draw Schematic experimental setup for determining fiber attenuation b) by the cutback technique. Explain the same. [6]
 - Draw representative trace of backscattered and reflected optical power c) as displayed on an OTDR screen and explain the meanings of various [5] trace features.

ORGV

- Illustrate Operational principle of an OTDR using an optical circulator. **08**) a) Draw the corresponding diagram. [6]
 - b) Explain Eye diagram test. Define fundamental measurement parameter. [6]
 - Consider the case when the power at the photodetector prior to inserting C) the filter is $P_1 = 0.51$ mW and the power level with the optical filter in the link is $P_{2} = 0.43$ mW. What is the insertion loss of the device? [5] Sharpenter and the sharpenter of the sharpenter

Total No. of Questions : 8]

P-10336

[6004]-S-556 B.E. (E & TC) FIBER OPTIC COMMUNICATION (2019 Pattern) (Semester - VIII) (404190)

Marking Scheme

Time : 21/2 Hours]

[Max. Marks : 70

(1) G).
$$\lambda = \frac{hc}{E} - 1m$$
.
 $\lambda = 1.32 \mu m - 1m$
 $R = \frac{hc}{hf} = -1m$
 $R = 0.694 - 1/2 m$
 $R = \frac{10}{10} - 1m$
 $P_0 = 3.60 \mu w = 2m$.
b) Def⁰ $N = formula$
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 $Responsivily Def0 1m$
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 $Correct Answer (if n) = 18nA (2m)
 $Correct Answer (if n) = 100 correct unreal
 $if p$ (m)
 $Formula Poner budget (3m)
 Sm (2m)$$$$$$

b) Simplex Print White Link Diagram 3m Explanation 3m <) Optical Amplifier Diagram 2m explanate 2m materials used in active medium 2m (6. ha) WDM block diagn 2m. Explanation 2m WDM achive components 2M b) Rice have budget formula: 1PM tays = 7 4.58 ns 2m. formulat RZ = 0.35 IM BRZ -tsystman = Q:75 ns 1m condition tays & tuman Im. C) Power loss model Diagram 3m. explanation 2m formula pouver loss model IM. Optical Network - Element dragra 2m Q.501) Explanation 2M. Define . modularity - IM Seculationity - 1m Data rates for SONET SDH .3M. 57 SONET Frame smuching STS-1 - 3m. c) STS-3 - 1M. for sts 3 2m. ST5-48 Video channel, STS - 2M. Qr6)a) PON block diagram 2m explanation 2m b) compare EPON APON & GPON. 3points each X 2M = 6M.

C) SONET shucture 2M diagram Operation 2m. advantages 2M.
Q. 7)a) Optical Measurement instruments &ist-GM functions of each instrument 3M.
b) Attenuation measurement using cutback method. Diagram 3M. Explanatic 3M.
c) OTDR trace. Diagram 2M. Explanation 3M.

- (0-8)a) Diagram of OTDR using an Ophical circulator 3m Explanation 3M.
 - b) Eye diagram test Diagram 3M. Define@parameters - 3M.
 - C) Formula for miertion 1051 2M. Calculation & correct answer 3M

HHH



Total No. of Questions : 8]

P-10336

[Total No. of Pages : 13

[6004]-S-556

B.E. (E & TC)

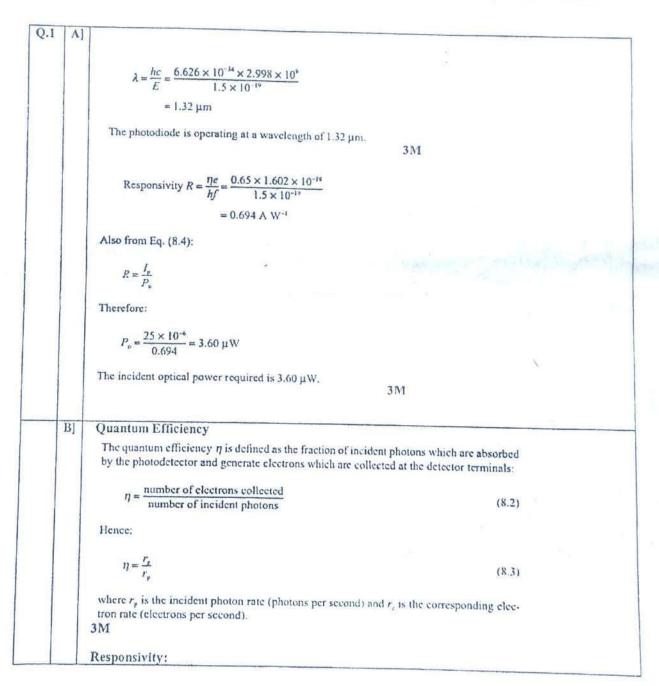
FIBER OPTIC COMMUNICATION

(2019 Pattern) (Semester - VIII) (404190)

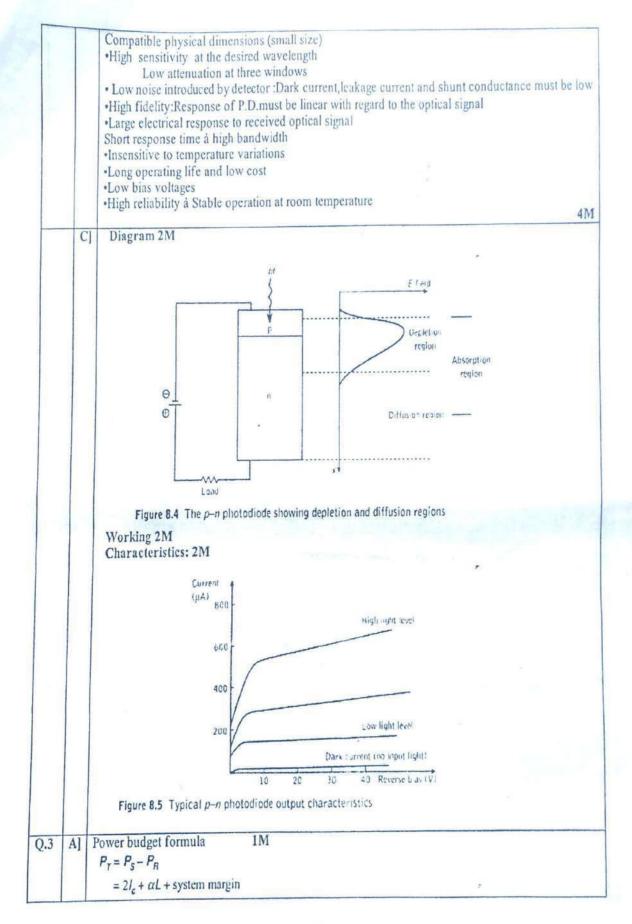
Model Answers & Solution

Time : 21/2 Hours]

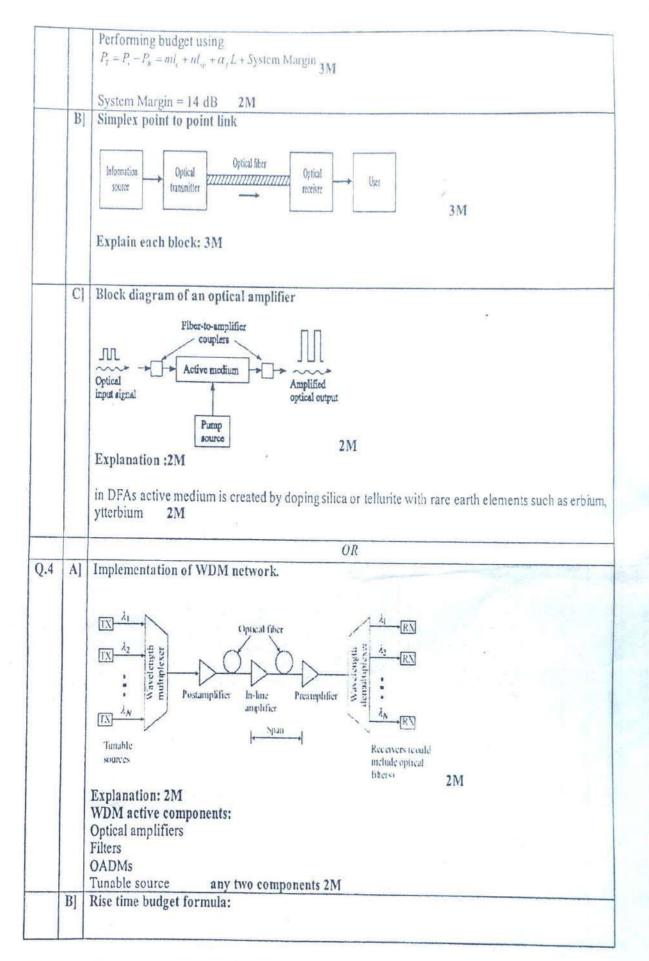
[Max. Marks : 70

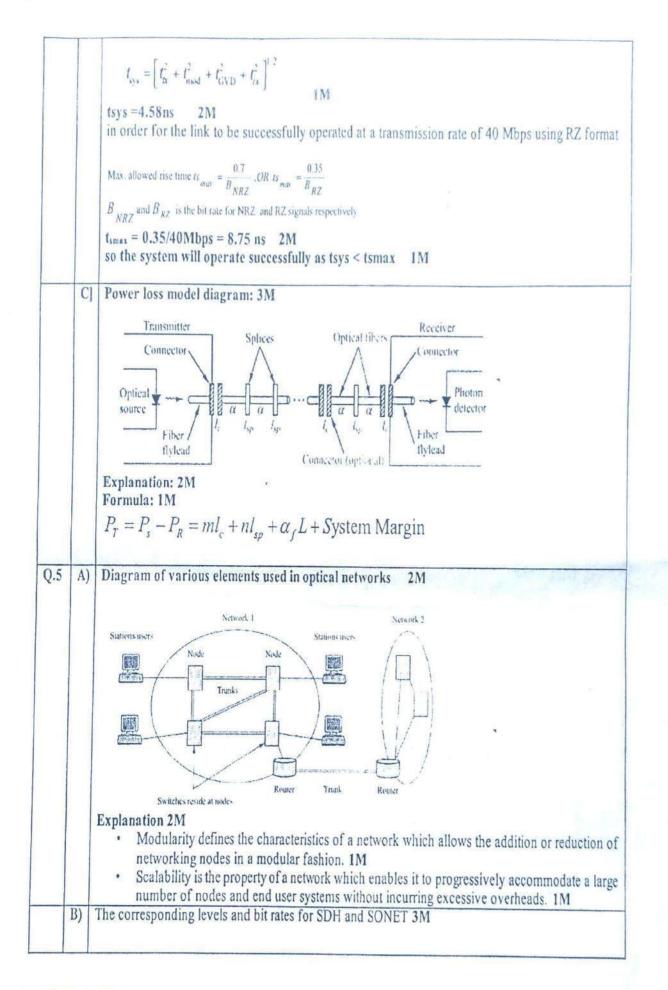


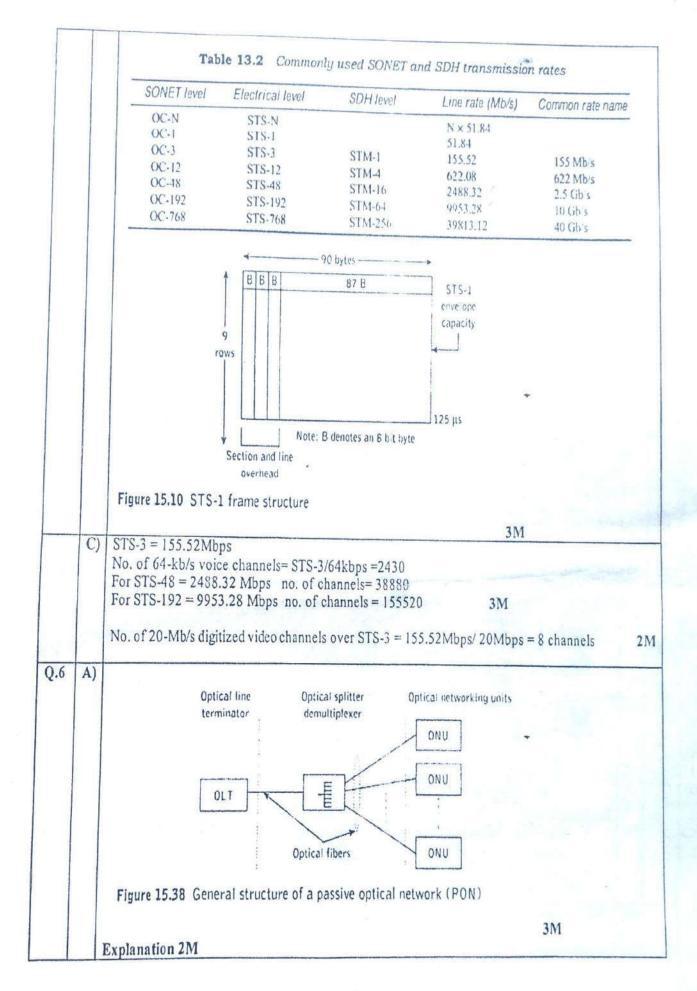
	$R = \frac{I_{e}}{P_{e}} (\Lambda W^{-1})$ where I_{p} is the output photocurrent in amperes and (i.e. output optical power from the fiber). The respo the transfer characteristic of the detector (i.e. photo 3M	onsivity is a useful parameter as it gives
CI		2
	 PIN Lightly doped layer i Without internal Gain Response time less Output current IP small Low reverse bias Low complexity in fabrication low cost Detects comparatively high light levels Temperature stability good 	 APD Multiplicative layer with i layer With internal Gain Response more Output current IP more High reverse bias High reverse bias High complexity in fabrication high cost Detects low light levels Temperature stability poor
Q.2 A	i) The mean-square dark current $\binom{l_{DB}^2}{2B} = 2ql_D B_e$ $= 2(1.6 \times 19^{-19} \text{ C})(4 \times 10^{-9} \text{ A})(20 \times 10^6 \text{ Hz})$ $= 2.56 \times 10^{-20} \text{ A}^2$ or $\binom{l_{DB}^2}{2B}^{1/2} = 0.16 \text{ nA}$	<u>OR</u> 3M
	ii) The mean-square thermal noise c $\langle l_T^2 \rangle = \frac{4k_BT}{R_L} B_r = \frac{4(1.38 \times 10^{-21} J_1 \text{ K})(293 \text{ K})}{1 \text{ k}\Omega} I$ $= 323 \times 10^{-11} \text{ A}^2$ or $\langle l_T^2 \rangle^{1/2} = 18 \text{ nA}$	
	B] Optical receivers convert optical signal (lig) •Photodetector is the fundamental element conditioning circuitry 2M Requirements of photodetector	nt) to electrical signal (current/voltage) of optical receiver, followed by amplifiers and signal

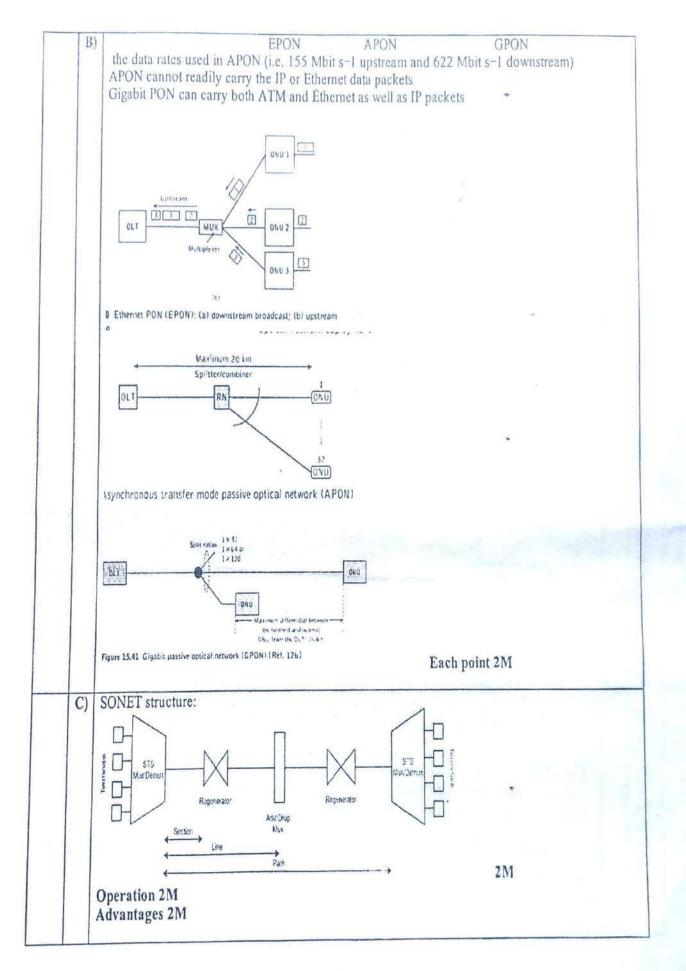


3



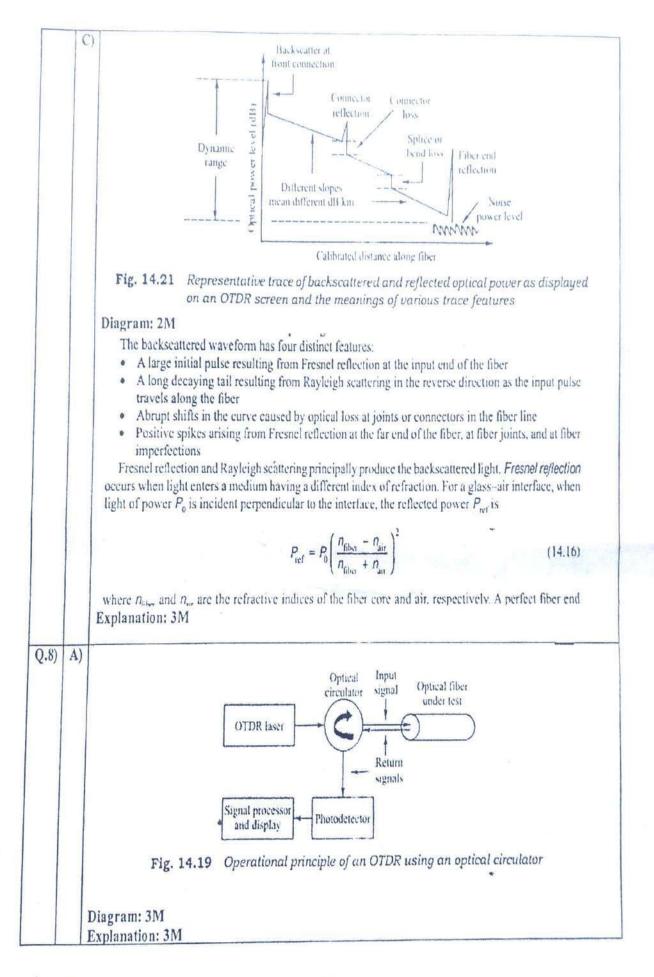






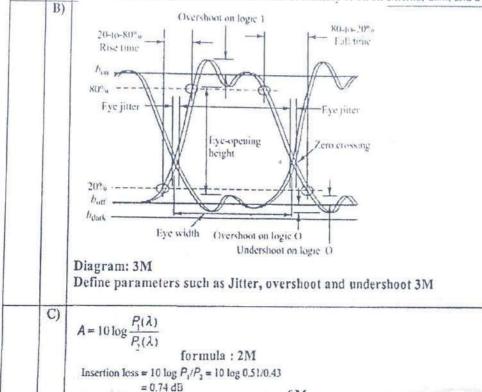
7

	Test instrument	Function	
	Test-support lasers (multiple-wavelength or broadband)	Assist in tests that measure the wavelength-dependent response of an optical component or link	
	Optical spectrum analyzer	Measures optical power as a function of wavelength	
	Multifunction optical test system	Factory or field instruments with exchangeable modules for performing a variety of measurements/	
	Optical power attenuator	Reduces power level to prevent instrument damage or to avoid overload distortion in the measurements	
	Conformance analyzer	Measures optical receiver performance in accordance with standards-based specifications	
	Visual fault indicator	Uses visible light to give a quick indication of a break in an optical liber Measures optical power over a selected wavelength band Uses standard eye-pattern masks to evaluate the data-handling ability of an optical link Measures attenuation, length, connector/splice losses, and reflectance levels; helps locate liber breaks Measures total reverse power in relation to total forward power at a particular point	
	Optical power meter		
	BER test equipment		
	OTDR (field instrument)		
	Optical return loss tester		
	3M	3M	
B)	Optical source Fig. 14.6 Schematic experime technique. The optic	e stripper Near Far end end ntal setup for determining fiber attenuation by the cutback ral power is first measured at the far end, then the fiber is and the power output there is measured	



An optical time-domain reflectometer (OTDR) is a versatile portable instrument that is used widely to evaluate the characteristics of an installed optical fiber link. In addition to identifying and locating faults or anomalies within a link, this instrument measures parameters such as fiber attenuation, length, optical connector and splice losses, and light reflectance levels.^{46,40}

An OTDR is fundamentally an optical radar. As shown in Fig. 14.19, the OTDR operates by periodically launching narrow laser pulses into one end of a fiber under test by using either a directional coupler or a circulator. The properties of the optical fiber link then are determined by analyzing the amplitude and temporal characteristics of the waveform of the reflected and back-scattered light. A typical OTDR consists of a light source and receiver, data-acquisition and processing modules, an information-storage unit for retaining data either in the internal memory or on an external disk, and a display. Figure 14.20



3M

5.6 Provision of Hand-Written Notes for Subject

Unit II Combinational Logic Design

Syllabus Defination of combinational logic, Canonical forms, Standard representations for logic functions, k-map representation of logic functions (Sop and Postforms), minimization of logical functions for minterms and max-terms (upto 4 variables), don't care conditions, Design Examples, Arithmetic Cincuits, BCD to 7-Segment clecoder, Code converter, Introduction to Quine-Mccluskey method, Quine Mccluskey using don't Care terms, Reduced prime implecants Tables.

Defination of combinational logic.

A combinational logic is a type of digital logic which is implemented by Boolean circuits, where the output is a pure function of present input.

Stundard representations for logic functions

Boolean expressions or Boolean function

eg.

TOTA

 $f(A_1B_1c) = (A+B)c$ $f(A_1B_1c,0) = A+Bc+AcD$ Product derms

F(A,B,C,D) = A + BC + ACD

ferm reving missin tibre borali att part Literals Sum terms $F(A_1B_1C_1D) = (B+D) \cdot (A+B+c) \cdot (A+c)$

111 Literals omitting

Two torms. 1) SOP form (Sum of product form) 2) Pos form (Product of Sum form)

Sum of Product form an equation into bracitantian to acitation $I = f(A_1B_1C) = ABC + ABC$ minimization of Conical Americans for ministeriors Product ferms - of 028 stimmer Simulation Sumo Sumo 2. f(P,Q,R,S) = PQ + QR + RS. Meetinger milling Quine Machashey wing the Product - erms Product of Sum form 1. $f(A_1B_1c) = (A+B) \cdot (B+c)$ the set is a our thation of present input Sum Jerms. $f(P,Q,R,S) = (P+Q) \cdot (R+S) \cdot (P+S)$ 2. Bolean extremion for Boolean two Sum ferms Canonical forms (Standard form) Steps to convert sop to canonical sop form step1: Find the missing literal in each product term if any. + 28 + A = (012) steps: AND each product term having missing literalls with terms form by ORing the literal and it's Complement. Steps: Expand the terms by applying distributive law and reorder the literals in the product terms. Step 4: Reduce the expression by omitting repeated product -lerms if any. Because A+A=A. 12 SOP form (Sam of Product form)

17 Convert the given expression in canonical Sop form f(A,B,c) = Ac + AB + Bcween he remat Step I Find the missing literals in each product terms ti bao brafit out point and most used that F(A; B, C) = AC + AB + BC (mono) odination parylage and fresh and Literal A is missing interal c is missing Literal B is missing te given expression in common of Po StepII AND product term with (missing literal + its complement) StepIIL Expand the terms and reorder literals f(A,B,c) = Ac(B+B) + AB(c+c) + Bc(A+A)(14) (18) = ABC + ABC + ABC + ABC + ABC+ ABC (Omit repeated Product terms) = ABC + ABC + ABC + ABCal A lateral A is 10 17 231001 2> Convert the given expression in Cononical Sop form. f(A,B,c) = A + ABcit's Complement F(A,B,C) = A+ABC · (B.A.HOTB) · (3) Hata -> literals B and care (A+C) + (A+A) missing. = $A(B+\overline{B})(c+\overline{c}) + ABc$. 13 : $f(A_1B_1C) = ABC + ABC + ABC + ABC + ABC + ABC$ Hoo obtain the canonical sum of product form of. $i \neq f = \overline{ABC} + \overline{BC} (A+D) ii \neq \overline{F} = A(C+D) + BC$ (iii) f(x,y,z) = (xy+z)(y+xz)iv> (AB+c)(B+CD) v> FI=AB+ED+ABC

steps to convert pos to cononical pos form. step1 : Find the missing literals in each sum term if any. stepz: OR each sum term traving missing literal with terms form by ANDing the literal and its complement. steps: Expand the terms by applying distribution law and reorder the literals in the sum terms. A B bran 17 Convert the given expression in Canonical Postor f(A,B,c) = (A+B)(B+c)(A+c)(fasinglement) Step1: Find the missing literal in each symterm + (3+3) = ASC B+B) + ABCC+E) F(A,B,c) = (A+B) - (B+c) (A+c) Literal B is BC+ ABC (Our missing > Literal A is DBA+ SBA+ JBA+ JBA = missing aisswith & the given expression in concaical missing. Step 2: OR Sum term with (missing literal. it's Complement ACAIBIC) = ATABC $F(A,B,C) = (A+B)+(CC) \cdot (B+C)+(A\cdot\overline{A})$ $(A+c)+(B\cdot\overline{B})$ pril23ira ACR+R)(C+C)+ABC Step 3: Expand the terms and reorder literals Expand Since A+BC = (A+B) (A+C) we have, $f(A_1B_1C) = (A+B+C)(A+B+C)$ $(B+c+A)(B+c+\overline{A})$ +13/19/ (A+c+B) (A+c+B)

f(A,B,c) = (A+B+c)(A+B+c)(A+B+c)(A+B+c)(A+B+c)(A+B+c) (A+B+c) called mintern and each individual form in capacita Stepy Omit repeated Sum terms F(AIBIC) = (A+B+C) (A+B+C) (A+B+C) CA+B+C) ON O OR THE OWNER AT BAC - MO 2) Convert the given expression in canonical form Y= A. (A+B+c) 0 1 1 CT = 24844 HABC = 783 HABEC = M3 Y=A. (A+B+c) 5 5 211-518 Literal B and c is missing aMESTERA ame SEA DIT Y = (A + BB + CC) (A + B + C)Since A+BC = (A+B) (A+C) 53A+DBA+SBA = CONBIAJE + Y = (A+BB+c)(A+BB+c)(A+B+c)= (A+B+C) (A+B+C) (A+B+C)(A+B+C) (A+B+c) y = (A+B+c)(A+B+c)(A+B+c)(A+B+c)convert the given expression in canonical pos form. H.W VY= (A+B) (A+C) (B+C) $27 f(P,Q,R) = (P+\overline{Q}) (P+R)$ 3 $f(A_1B_1C) = (A+B)(B+C)(A+C)$

Minterms) and Maxterms

Each individual term in Cononical SOP form is called minterm and each individual term in canonical pos form is called maxterm.

Voriables Minterms Maxterms A B CARA mi $0 \quad 0 \quad \overline{A} \quad \overline{B} \quad \overline{C} = m_0 \qquad A + B + C = M_0.$ 0 0 1 $\overline{ABC} = m_1$ $A+B+\overline{C} = M_1$ $0 \quad | \quad 0 \quad \overline{ABC} = m_2 \quad A + \overline{B} + C = M_2$ $O | I \overline{ABC} = m_3 \overline{A+B+C} = M_3$ 1 0 0 ABE = m4 A+B+C=M4 $1 \circ 1$ $ABC = m_5$ $A+B+C=M_5$ 1 10 ABC = m_6 . $\overline{A} + \overline{B} + C = M_6$ $| | ABC = m_7 A + B + C = M_7$ (StA) (AtA) - DATA STAR 1. $f(A,B,c) = \overline{ABC} + \overline{ABC} + \overline{ABC} + \overline{ABC}$ 1819 ()+88 = mo + mi + m3 + m6 51811) (= Em (0,1,3,6). 2. $f(A_1B_1c) = (A+B+c)(A+B+c)(A+B+c)$ = M1. M3. M6. 2 TM (1,3,6). HW W V = (A+A) (A+A) (A+C) (A+C) Complements of Canonical Forms $f(A_1B_1c) = mo + m_1 + m_3 + m_4 + m_6 + m_7 = M_2 + M_5$ f(A1B1C) = Zm (0,113,4,6,7) = TTM (215) Express F=A+BC as sum of minterms A+Bc = A(B+B)(c+z) + (A+A)Bc= AB+AB (C+T)+ ABC+ABC = ABC + ABC + ABC + ABC + ABC + ABC = ABC+ ABC+ ABC + ABC + ABC F = Zm(1,4,5,6,7)

Express the Boolean function F=XY + XZ in product of maxterm TERFEXYFXZAR, EABRA A $= XY(Z+\overline{Z}) + \overline{X}Z(Y+\overline{Y})$ = XYZ + XYZ + XYZ + XYZ F=Zm(7,6,3,1) 05 05/84 = TTM (0,2,4,5) - COAA AR = (x+y+z)(x+y+z)(x+y+z)(x+y+z)128/ ABCT ABCD/ ABKA ABKA k-map Representation of Logic Functions A 0 0 0 o me en pro mo mo mo mu ma mu 1 - Variable map 2-variable 3-variable map (2 cells) (4 cells) (8 cells) AB 00 01 11 10 BR 00 01 11 10 00 ocimo mi ma ma 01 Sux 2ux 5ur hue 10 11 11 majaring mis mis (6 mg mg mu mio 10 4-variable 4- Variable -19213 and - Variable mass wi (-2119) -1) mass (P) A B B 548 348 SHE BAE

1, 2, 3, variable map with product terms
of manderm
A B B B B B B B B C B C B C B C B C B C B C B C B C B C B C B C B C B C B C B C B C B C <thc< th=""> C C C C</thc<>
A A ABAB AB ABCABCABCABCABC
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a lite and the there was a set of the set
AB TO TO CO CO AB ABTO ABTO ABTO ABTO ABTO
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AB ABED ABED ABED ABED ABED ABED ABED AB
1,2,3 and 4- variable maps for sop expressions.
0 AD 1 A 00 01 11 10
A O mo o mo mi no mi mo mi mo mo
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
1-Variable map 2-Variable 3-Variable
~cp
AB 00 01 11 10 01 11 10 00 / AA
00 m0 m1 m3 m2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
4- Variable. 1, 2, 3 and 4- Variable maps with sym terms (pos)
A A A A A A A A A A A A A A A A A A A
A A A+B A+B A+B A+B+C A+B+C A+B+C A+B+C
1-variable 2-variable
CHD. CHD CHD CHD.
A+B A+B+C A+B+C+D A+B+C+D A+B+C+D
A+B A+B+A+B+C+D A+B+C+D A+B+C+D
The AtB+ AtB+ CHDA+ B+ C+DA+ B+ C+DA+
A+B C+D A+B+C+D A+B+C+D A+B+C+D A+B+C+D

1,2,3 and 4 - Variable map for pos expression. 1-variable 2-variable 3-variable map J+8+A . M=010 = 3+ Representation of Truth table on Karnaugh map Y A O I A B B. O O I A O I I I O A I O 0 0 1 D I 0 0 Pot Beelenn Franklern Plot Boolean expression Y= ABC+ABC+ABC on the Karnaugh map. The expression Has 3 variables. 1+2+8, + R 23=8 cells ... = 0+2+8+ Plot Boolean expression. Y= ABCO + ABCO + ABCO + ABCO . on the karnough map. The expression hay 4 Variables $2^{4} = 16$ (ells ABTD = 0100 = 4 ABCD = 1010=10 ABCD = 1011=11 ABED = 1101=13

Plot Boolean expression Y = (A + B + c) (A + B + c) (A + B + c) (A + B + c)on the karnaugh map. 3 variables. 2³-2 8 cells. $A+\overline{B}+c = 010 = M_2$, $A+\overline{B}+\overline{c} = 011 = M_3$ A+B+c= 110= M6, A+B+c= M1(001) A 0 00 01 11 10 0 00, 03 02 - 8 1 A 4 5 7 0.6 Plot Boolean expression. Y= (A+B+C+D) (A+B+C+D) (A+B+C+D) $(\overline{A}+\overline{B}+c+\overline{D})(\overline{A}+\overline{B}+c+D)$ 4 - variables 24 = 16 cells A+B+c+D = 0001 = Mi, A+B+c+D=0110= M6 $A+B+\overline{C}+\overline{D} = OOH = M3.$ $\overline{A} + \overline{B} + \overline{c} + \overline{D} = 1101 = M_{13}$ $\overline{A} + \overline{B} + \overline{c} + \overline{D} = 1110 = M_{14}$ 1040517 AB Dooley expression of 11 10 00 BA HI 00 0010302 A+ 008A 1050A -Y 4 5 7 06 01 Karsaunh map 11 12 93 15 014 01 11 10 00 D 101 8 9 11 10 1=16 [6]] 01001010 -

Grouping cell for simplification. + BBC+ ABC+BBC+BBC Grouping two Adjacent ones (cells) (pairs) e.q. Y= ABC+ABC $= \overline{A}(\overline{B}+B)$ = Ac (1) : B+B=1 · . Y= Ac. KANS" By using K-map technique Y= ABC+ABC. $ABC = 001 = m_1 d$ ABC = 011 = m3 TO Be 00 01 11 10 Coli 12 Lansible root paigeore 4576 01. 11 10 00 AA 01 11 10 00' Y=AC 10 BC e.y. Bc 00 01 11/ 11 10 01 01 11 100 AC e.g. 1 Y=ABED+ABED. kmap. $\widehat{ABCD} = 0001 = m_1$ = BED(A+A) ABCD= 1001=mg 08 But (A+A)=1 BD00 01/11 · . Y= BCD 0/1/ 00 4576 01 12 13 15 14 1) Y=BEDIOL 8 [9] 11 10

Y= ABC+ABC+ABC = ABC+ ABC+ ABC+ABC [A+A=A] $= \overline{AC(B+B)} + BC(\overline{A}+A)$ = AC+BC (A+A) ABC 00 Y=AC+BC ABC+ABC e.q. A 00 01 11 10 Pair not required Grouping Four Adjacent Ones (Quad) A0001 AB 00 01 11 10 10 00 01 1 1 11 . 4-9 A 0 10 ABD 00 CD 10 01 11 3. ABOO 00 01 11 10 00 01 11 01 10 11 10 AD ABE 0 BD

Grouping Eight Adjacent Ones (Octet)

AB 00 01

01/11

11/11/1

00

10

Y=B.

Y= $\overline{ABCD} + \overline{ABCD} + \overline{ABCD} + \overline{ABCD}$ + $\overline{ABCD} + \overline{ABCD} + \overline{ABCD} + \overline{ABCD}$ = $\overline{ABC}(\overline{D}+D) + \overline{ABC}(D+\overline{D}) + \overline{ABC}(\overline{D}+D)$ + $\overline{ABC}(D+\overline{D})$ = $\overline{ABC} + \overline{ABC} + \overline{ABC} = \overline{AB(C+C)} + \overline{AB(C+C)}$ Minimization of Logical Functions for Min-Terms B(A+ABC) (Sop Expressions) = \overline{BC}

Procedure to simplify Sop Boolean expressions 1. Plot the k-map and place Is in those cells corresponding to the 1s in the truth tuble or sum of product expression. Place Os in other cells 2. Check the k-map for adjucent 1s and encircle those is which are not adjacent to any other is These are called isolated 1s. 3. check for those is which are adjacent to only one other 1 and encircle such pairs. 4. Check for guads and octets of adjacent 1s even if it contains some is that have already been encircled. While doing this make Sure that there are minimum number of groups. 5. Combine any pairs necessary to include any 1s that have not yet been grouped. 6. Form the simplified expression by Summing product terms of all the groups.

Minimize the expression Y= ABC + ABC + ABC + ABC + ABC 3-variables. ABC=101=ms. 23 - 8 cells ABC= 001=m. ABC = 011 = m3 A = 00 01 11 10 ABC = 100 = mq0 10 18 2 ABC = 000=mo 14/57 6 isessa y=Ac+B sometile side of embrand I Pol In K may you god place is in Reduce the following function to its minimum sop Sum of product expression. Place of imro-Y= ABCD+ABCD+ABCD+ABCD+ABCD+ ABCD + ABCD + ABCD ABED = 0001 = m, ABED = 1101 = m13 $ABCD = 0101 = m_5$ ABCD = 1111 = m15 $\overline{ABCD} = 0111 = m_{\overline{T}} \quad A\overline{B}CD = 1011 = m_{11}$ $\overline{ABCD} = OIIO = m6.$ $AB\overline{C}\overline{D} = 1100 = m_{12}$ $\frac{1}{1+\frac{3}{2}} = \frac{1}{2} = \frac{1}{2$ 00 400 01 1) 13 product terms of all there ere 10

Reduce following function using k-map technique f(A,B,C,D) = Zm(0,1,4,8,9,10). AROO OI! 11 1001000 40 all sinsist Simplify following logical expression using H.W k-map 1> Y=ABC+ABC+ABC+ABC+ABC 2> fi (A1B, C, D) = Em (0,3,5,6,9,10,12,15) 3> $f_3(A_1B_1C_1D) = \Xi m(0,1,2,3,11,12,14,15)$ Don't Care Terms Reduce the following function wing k-map Find the reduced sop form of the following function. $f(A_1B_1C_1D) = \sum m(1, 3_17_11, 15) + \sum d(0, 2_14)$ AB 00 01 11 10 AB 10 00 01 11 10 Y=CO+AB 00 X 1. 1 x 2 2 F 12 5 10 01 X4 5 17 6 41 92 92 92 14 12 13 15 14 11 01 11 10 2010 8 9 11, 10 0



8. Question Bank Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune -412205 (MS), India.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

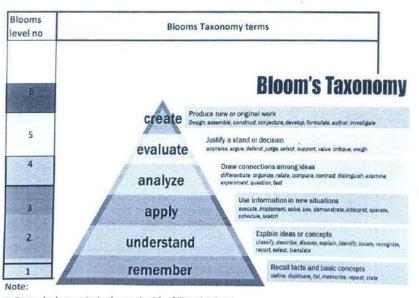
Academic Year: 2022-23 , Semester - II

QUESTION BANK UNIT 1

Unit No. a	BE FIBER OPTIC COMMUNICATION and Name :Unit I Optical Fibers for Telecommunication	Nameof Faculty Batch No.	Prof. J. J. Band
Question No.	Question Statement	CO Mapping	Blooms Level
1	Explain the following sources of attenuation in optical fibers in details and draw neat diagrams to illustrate them: i) Material absorption Loss ii)Scattering Loss iii)Fiber bending loss	CO1	BT_2
2	Explain the following types of dispersions involved in optical fibers: I) Intramodal dispersion ii) Intermodal dispersion iii) overall fiber dispersion Draw dispersion curves to illustrate the same	C01	BT_2
3	Write brief notes on: i) Dispersion in optical fibers ii) Dispersion shifted fibers iii) Non-zero dispersion shifted fibers iv) Dispersion flattened fibers	CO1	BT_2
4	Explain the key elements of optical fiber communication system with a neat diagram and identify the three transmission windows on the fiber attenuation curve	CO1	BT_2
5	Classify and explain the various loss mechanisms (linear & nonlinear scattering, absorption, bending) in optical fibers.	CO1	BT_2
	Answer the following: 1. Draw a neat diagram of optical fiber communication system showing all the key elements. 2. Draw the attenuation curve of optical fibers and mark the various transmission windows on it. 3. Explain TIR in optical fibers with a neat ray diagram	CO1	BT_2
7	Give reasons: Why can only glass and plastic materials be used for drawing fibers for optical communication?	C01	BT_2
	Draw and Explain different types of dispersion mechanisms in optical fibers.	C01	BT_2



9	In a laboratory setup, 0.1 mW of optical power is launched at the input of a 10 km optical fiber and 5 μW of power is measured at the fiber end. i) Calculate the signal attenuation per km. ii) Calculate the overall signal attenuation for a 12 km optical link using the same fiber specifications, with splices at 1 km interval. The splice loss inserts 0.5 dB loss per splice.	CO2	BT_3
10	For a step index fiber with NA = 0.225, core refractive index of 1.495 and length of 10 km, calculate the pulse spread and the pulse spread per unit length. Estimate the maximum bit rate. Suggest two methods to overcome intermodal dispersion	CO2	BT_3
11	A multimode step index fiber has a relative refractive index difference of 1% & a core refractive index of 1.5. The number of modes propagating at a wavelength 1.3 μ m is 1100. Estimate the diameter of the fiber core.	CO2	BT_3
7 ²	A single mode step index fiber has a core diameter of 7 μ m and a core refractive index of 1.49. Estimate the shortest wavelength of light which allows single mode operation when the relative refractive index difference for the fiber is 1%.	CO2	BT_3
13	Determine the cutoff wavelength for a step index fiber to exhibit single mode operation when the core index and radius are 1.46 & 4.5 μ m respectively, with the relative index difference 0.25%	CO2	BT_3
14	Compare dispersion shifted & dispersion flattened fibers	CO3	BT_4
15	Compare MMSI, SMSI, MMGI fibers based on number of modes, RI profile, dimensions, and attenuation & dispersion parameters.	CO3	BT_4
16	Compare MMSI, SMSI, MMGI fibers. Of these which fiber would you select for following case scenarios: Case 1: Inter-lab optical setup for text file transfer. Case 2: Link between two cities for internet access (for implementation of a high data rate, low latency intercity optical link) and why.	CO4	BT_5



1. Example demonstrate the method for filling the data

2. Blooms Taxonomy is provided for Ready Reference

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with neat diagram. Explain the following terms

6. Spontaneous Emission 7. Stimulated Emission

5. Absorption

Rajgad Duyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

8 No. 237, Satara-Pune, NH-4, Dhangawadi, Tal. Bhor, Dist. Pune -412205 (MS), India

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022-23 , Semester - 11

QUESTION BANK UNIT 2 Class : BE Nameof Faculty: Prof. J. J. Bandal Course : FIBER OPTIC COMMUNICATION Unit No. and Name : Unit II Optical Sources Batch No. Question Blooms Level Question Statement **CO** Mapping No. COL BT_2 State and explain the major requirements of good optical sources Distinguish direct and indirect band- gap semiconductor 87 4 2 What are direct band gap and indirect band gap semiconductors with BT 1 3 necessary diagrams? BT 1 4 Why is silicon not used to fabricate LED or Laser diodes? BT 3 5 Calculate the band-gap energy for an LED to emit 850 nm Evaluate the peak emission wavelength of an LED that uses AI 0.11GA0.89 AS as BT_2 6 active region What are the various types of optical sources? Explain with diagrams and CO1 BT_Z 7 characteristics and working of LED. State its specifications, advantages and disadvantages. What do you understand about the term external quantum 6 CO1 efficiency and internal quantum efficiency in the case of LED? BT 2 CO1 Explain external quantum efficiency and the external power 9 BT_2 generated in the LED with necessary equations CO1 Explain the following terms w.r.t. LED 1. Spectral Width 2. Modulation 10 BT_2 Bandwidth 3. Quantum Efficiency 4. I-P characteristics An LED has radiative and non-radiative recombination times of 30 and 100 ns respectively. The drive current is 40mA. Determine CO2 11 BT_3 1. The internal quantum efficiency 2.Bulk recombination time 3. Internal Power level CO1 BT_1 12 Mention the various types of LED structures.

Blooms **Blooms Taxonomy terms** level no **Bloom's Taxonomy** create Produce new or original work Design, essenble, construct, conjecture, develop, for 5 Justify a stand or decision appraise, argue, defend, judge select support, value, critiqu evaluate 4 w connections among ideas mblate, organise, relate, compare, contrast, dist ment, question, test analyze Use information in new situations 3 apply Explain Ideas or concepts 2 understand sify, describe, discuss, exp. vt. select, translate Recall facts and basic concepts remember Note

What are different Analog Drive circuits for LEDs? Explain any one

Differentiate stimulated emission and spontaneous emission.

Differentiate stimulated emission and spontaneous emission

1. Example demonstrate the method for filling the data 2. Blooms Taxonomy is provided for Ready Reference

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CO1

CO1

CO3

CO1

BT 2

BT_2

BT_4

BT 2



Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune -412205 (MS), India.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022-23 , Semester - II

QUESTION BANK UNIT 3

Class : Course :

Course : FIBER OPTIC COMMUNICATION Unit No. and Name :Unit III Photodetectors

BE

Nameof Faculty:Prof. J. J. Bandal Batch No.

Question		and additional	Batch No.		
No.		Question Statement	CO Mapping	Blooms Level	
	a	Explain performance and compatibility requirements for photodectors	CO1	BT_2	
1	b	Explain the following terms I)Quantum efficiency ii) Responsivity iii) Long cut off wavelength	CO1	BT_2	
@ ²	a	Draw structure of p-i-n photodiode and explain its operation in brief. Plot the responsivity curve as a function of wavelength for p-i-n photodiodes constructed of silicon.	C01	BT_2	
	b	Draw the structure of APD and explain its working	CO1	BT_2	
3	а	A given APD has a quantum efficiency of 80% at a wavelength of 900 nm.Suppose 0.5 micro watt of optical power produces a multiplied photocurrent of 11 micro A.Find multiplication factor	CO2	BT_3	
	b	Compare pin diode and APD	CO3	BT 4	
4	a	Write short note on 1.Quantum noise 2.Dark noise 3.Thermal noise	CO1	BT_2	
	b	Explain receiver sensitivity and BER	C01	BT_2	

Blooms level no	Blooms Taxonomy terms			
6		Bloom's Taxonomy		
5	Greate Design, asse	ew or original work mble, construct, conjecture, develop, formulate, author, investigate fy a stand or decision use, argue, defend, judge, select, support, value, critique, weigh		
4	analyze	Draw connections among ideas differentiate, organize, relate, compare, contrast, distinguish, examine, experiment, question, test		
3	apply	Use information in new situations execute, implement solve, use, demonstrate, interpret, operate, schedule, sketch		
2	understand	Explain ideas or concepts classify, describe, discurs, explain, identify, locate, recognize, report, select, translate		
1	remember	Recall facts and basic concepts define, duplicate, list, memorize, repeat, state		

Note

1. Example demonstrate the method for filling the data

2. Blooms Taxonomy is provided for Ready Reference

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lin Sign of Faculty ____

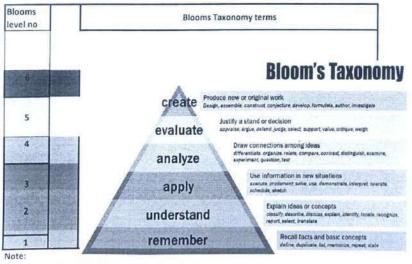


DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022-23 , Semester - 11

QUESTION BANK UNIT 4

Class : Course : Unit No. at	BE FIBER OPTIC COMMUNICATION ad Name :Unit IV Fiber Optic Link Design & WDM Systems	Nameof Faculty:Prof. Batch No.	J. J. Bandal
Question No.	Question Statement	CO Mapping	Blooms Level
I	An optical fiber system uses fiber cable which exhibits a loss of 7 dB/km, average splice losses for the system are 1.5 dB/km and connector losses at the source and detector are 4 dB each. After safety margins have been allowed, the total permitted channel loss is 37 dB. Assuming the link to be attenuation limited, determine the maximum possible transmission distance without a repeater.	CO4	BT_4
	b Explain the gain process in a Raman fiber amplifier and comment upon the flexibility associated with the pumping process in this fiber amplifier type.	CO2	BT_5
	a Draw the block diagram of a point to point optical fiber link and explain the function of blocks needed in it.	CO1	BT_2
2	 Develop the power loss model for the given 86 km long haul optical fiber system with the given parameters. System operates at a wavelength of 1300 nm. Mean power launched from the laser transmitter is – 3 dBm. Cabled fiber loss is 0.4 dB/km, splice loss for the link is 0.1 dB/km, connectors used at transmitter and receiver respectively is 1 dB. Mean power required at the APD receiver when operating at 35 Mbps is -55 dBm. Propose the required system margin. 	CO4,CO5	BT_5
3	 Propose the choice of design components including transmission wavelength for the optical fiber system used for 25 Gbps.km. Discuss the reasons for the selection of a particular component. 	CO4,CO5	BT_6
	b Explain the working principle of Fiber Bragg Grating. With the help of diagram explain how it is useful as an Optical Add Drop Multiplexer.	CO1	ВТ_З
4	 A digital optical fiber system uses an RZ pulse format. An optical fiber link is required to operate over a distance of 10 km without repeaters. The fiber available exhibits a rise time due to intramodal dispersion of 0.2 m/km. in addition the APD detector has a rise time of 1 ns. Estimate the maximum rise time allowable for the source in order for the link to be successfully operated at a transmission rate of 40 Mbps 	CO4,CO5	BT_5
	b detail.	CO1	BT_3



1. Example demonstrate the method for filling the data

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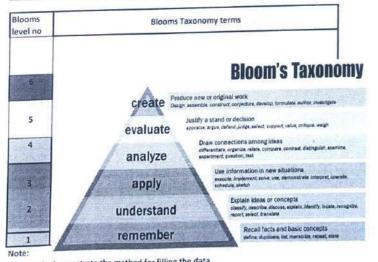


DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year: 2022-23 , Semester - II

QUESTION BANK UNIT 5

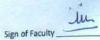
Class : BE Course : FIBER OPTIC COMMUNICATION Unit No. and Name : Unit V Optical Networks		Nameof Faculty:Prof. J. J. Ban Batch No.		
Question No.		CO Mapping	Blooms Level	
1	Define Optical Network. Explain the term optical node & light path with suitable diagram relative to optical network	CO1	вт_2	
2	Define network topology. State and explain types of network topologies with suitable diagram.	CO1	BT_2	
3	State Advantages and desirable properties of optical network	CO1	BT_1	
4	Compare Asynchronous and Synchronous Optical Network Explain SONET with respect to structure, elements, STS 1 frame structure.	CO3	BT_4	
5	Explain SONET with respect to SONET ring, advantages, applications	CO1	BT_2	
-6	Compare active optical network (AON) and passive optical network (PON). Explain concept of PON with suitable diagram.	CO3	BT_4	
7	With suitable diagram explain Gigabit Passive Optical Network (GPON). Using internet resources, compile state of art technology related to GPON	CO6	BT_6	
8	With suitable diagram explain Long Haul, Metropolitan Area Network (MAN) and access network.	CO1	BT_2	
9	With suitable diagram explain Submarine optical networks. Using internet resources, compile state of art technology related to Submarine optical networks.	C06	BT_6	
10	What is Fiber Distributed Data Interface (FDDI). Explain with diagram FDDI with respect to ring structure, Reference Model, frame and topology used.	C01	BT_2	
11 1	What is FTTX. What are the different categories of FTTX.Explain FTTX with respect to architecture, advantages. Compare the rategories	CO3	BT_4	
12 0	With suitable diagram explain concept of FTTH. State advantages of FTTH. Using internet resources, compile state of art technology elated to FTTH.	C06	BT_6	
13 0	With suitable diagram explain concept of FTTP. State advantages of FTTP. Using internet resources, compile state of art technology elated to FTTP.	C06	BT_6	



1. Example demonstrate the method for filling the data

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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022-23 , Semester - II

QUESTION BANK UNIT 6

	and N	FIBER OPTIC COMMUNICATION ame :Unit VI Optical Fiber Measurments	Nameof Faculty:Pr Batch No.	of, J. J. Bandal
Question No.		Question Statement	CO Mapping	Blooms Level
	a	Describe with necessary experimental arrangement for the measurement of the signal attenuation in an optical fiber by cutback technique	CO6	BT_2
Ĩ	b	A multimode fiber of length 1.8 km is connected to an apparatus for the measurement of attenuation coefficient by cutback technique. The output voltage from the photodetector using 1.8 km fiber length is found to be 2.5 V at an wavelength of 0.9 μ m. Without disturbing the system the fiber is then cutback to a length of 2 meters, and the measured output voltage from the photodetector is found to be 11.5 volts. Estimate the value attenuation per km in d8.	CO6	BT_3
Ţ,	a	Describe and explain the experimental set up used in OTDR technique. How is the attenuation measured by this technique? Give the representative results obtained from OTDR expt. Explain a typical curve obtained on the scope giving representative results of the expt. What is limitation of this technique.	CO6	BT_3
2				
0	b	Describe the arrangement for the experimental set up for the time domain fiber dispersion measurement . Find the relationship between the pulse broadening and the widths of input and output pulses wilt hassumption that the shape of pulses are Gaussian. Pulse broadening measurement expt. Is done on a 2 Km length of a multimode step index fiber. The 3 dB width of the input and output pulses are found to be 300 ps and 12.6 ns respectively . Estimate a> a 3 dB pulse broadening for the fiber in ns/km, and b> bandwidth length product of the fiber. Assume that the input and output pulses are Gaussian in shape.	соб	BT_3
	a	Describe with the experimental arrangement for the frequency domain dispersion measurement.	CO6	BT_2
3	b	How can you measure the numerical aperture of a fiber by a> scanning photodetector and rotating stage method and b> b> trigonometric method	CO6	BT_2
	a	Compare and contrast two simple techniques used for the measurement of the numerical aperture of optical fibers. Numerical aperture measurements are performed on an optical fiber. The angular limit of the far-field pattern is found to be 26.1° when the fiber is rotated from a center zero point. The far-field pattern is then displayed on a screen where its size is measured as 16.7 cm. Determine the numerical aperture for the fiber and the distance of the fiber output end face from the screen.	CO6	BT_3

4 b	(a) Multimode liber (b) Single mode fiber	Input pulse width (3 dH) 400 ps 200 ps	Output pulse walth (3 dB) (1 20 ns 425 ps	Eiber length (km) 1-13 2-15	CO1	87_3
	Pulse dispersion measurement multimode and a single-mode recorded are. Calculate the optical bandwin assuming Gaussian pulse sha	e step index fiber dth over 1 kilome	The results	a		

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Blooms level no	Blooms Taxond	omy terms
6		Bloom's Taxonomy
A CONTRACTOR		or original work e. construct, consecture, develop, farmulate, author, investigate
5		ā stand or decision argue delend judge select, support, value, orbique, weigh
4	analuza di	aw connections armong lideas evencate, organize, milate compare, contrast distinguish, examine, ersment, question, test
з	apply	Use information in now situations execute, implement, solve, use, demonstrate, interpret, operate, schedule, skelch
	understand	Explain ideas or concepts classify describe, discuss, explain, identify, locate, recognize, report, select, translate
	remember	Recall facts and basic concepts define, duplicate flat memorize repeat, state

1. Example demonstrate the method for filling the data

2. Blooms Taxonomy is provided for Ready Reference

9. Teacher Guardian

Batch
SI

Kajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING S. No. 237, Dhangwadi, Tal, Bhor, Dist Pune.
GUARDIAN TEACHER SCHEME ACADEMIC YEAR 20 -20 SEMESTER I
Name of Staff: Prof. J. J. Bundal
Department : EUTC Mob No. : 9657498032 Class: SE Batch : SI
Name of Staff:Picf. I T. Bandal
Department : E Ø Tc Mob No. : 9£57498032 Class: SE Batch : SI

Sr. No.	Particulars			
1	List of Student (Mentee)			
2	Student Information (Mentee)			
	Semester - I			
3	Time Table : Semester I			
4	Postal Record : Semester I			
5	Phone Call Record : Semester I			
6	Student Councelling Record : Semester I			
7	Meeting Attendance Record : Semester I			
8	Student Councelling Record : Semester I			
9	Improvement Status Record : Stemester I			
10	Subject-Wise Theory Attendance after Four Weeks With Test Marks			
11	Subject - Wise Practical Attendance after Four Weeks			
12	Subject-Wise Theory Attendance after Eight Weeks With Test Marks			
13	Subject-Wise Practical Attendance after Twelve Weeks			
14	Subject-Wise Final Theory Attendance			
15	Subject-Wise Final Practical Attendance			
16	Prelim Results			
17	University Results			
	Semester - II			
18	Time Table : Semester II			
19	Postal Record : Semester II			
20	Phone Call Record : Semester II			
21	Student Meeting Record : Semester II			
22	Meeting Attendance Record : Semester II			
23	Student Councelling Record : Semester II			
24	Improvement Status Record : Semester II			
25	Subject - Wise Theory Attendance after Four Weeks With Test Marks			
26	Subject-Wise Practical Attendance after Four Weeks			
27	Subject-Wise Theory Attendance after Eight Weeks			
28	Subject - Wise Pactical Attendance after Eight Weeks			
29	Subject- Wise Final Theory Attendance			
30	Subject- Wise Final Practical Attendance			
31	Prelim Results			
32	University Results			

Contended of the second of the

List of Students (Mentee)

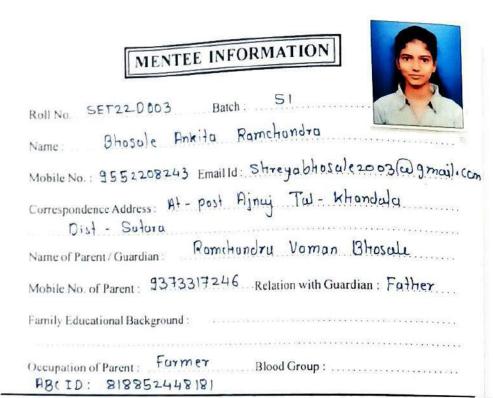
Roll No.	Name of Students	Remarks
SETZIFOOI	Ambike Atul Vilas	
SET2IF002		
SET 21 000 3	Bhosale Ankita Romehandra	
SET 21F004	Borkar Someer Bhanudas	
SETZ2D005	Chavan Tejos Deepak	
SET 21 FOD 6	Deshmukly Adest Hemant	
SET220007	Devkar Pooja Dhanaji	8
SET21 FOO 8	Dhaigude Aditya Ganpat.	
SET22D009		
SET21F010	Dhumal Shivanjoli Santosh	
SETZIFOII	Dydhane Devang Dattatray	
SET220012	Gudre Pooju Stivaji	
SETZIF 013	Gaikwad Sakshi Bhimaji	
SET 220014	Ghore Kishor Ramchandra	
SET 22 DO15	Gita Datta Tupkar	
SETZIFOIG	Gole Pradnya Laxman	
SET2IF017	Gole Struti Sunil	
SET 22 0018	Hingane Ganest Pravin	
SET 21FO19	Hoval Vijay Vikas	
SETZ2D020	Jadhav Ankita Aba	
SETZ2D021	Jodhav Gayatri Romday	
SET2IF022	Jugtop Adityo Sonjay	(in)
SET2IF023	Jagtap Saurav Pramod	
SET220024	n.l. Dim	
SET220025		
	Sryangeetra	
	TE 6504	





Roll No. SET 21F001 Batch: SI
Name: Ambike Atul Vilus
Mobile No.: 7499634241 Email Id: 07Wombike1214 @ gmail.com
Correspondence Address: At. Gundewadi, Post - Dhawadi Tal - Wai , Dist - Satara.
Name of Parent/Guardian: Ambike Vilas Serjerao
Mobile No. of Parent : 7350 949383 Relation with Guardian : Futher.
Family Educational Background :
Occupation of Parent: Former Blood Group: B ⁺ ABCID: 300854343988

Roll No. SET 21 FOO 2. Batch: S1
Name: Andhalikar Akshada Yashwant
Mobile No. 9960683285 Email Id: akshadaandhulikar 27 @ gmail. com.
Correspondence Address: Sanghavi Residency, Flut No.21 Bajarong Ali, Bhor Name of Parent/Guardian: Sulbha Yashwant Andhalikar
Mobile No. of Parent : 7058683285 Relation with Guardian : Mother
Family Educational Background :
Occupation of Parent : Teucher Blood Group : A +
AB(10: 134200169063



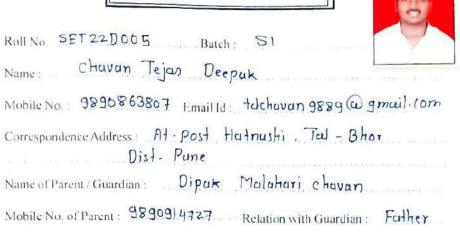


Roll No. SET2) FO04 Batch: SI
Name: Borkar Samaer Bhanuday
Mobile No. 9067671977 Email Id: borkursameer of @ gmail. Com
Correspondence Address: Al - Post Norayanpur, Tal - Purundur. Dist - Pune
Name of Parent / Guardian Borker, Bhunudes Baban
Mobile No. of Parent: 8468909053 Relation with Guardian: Father
Family Educational Background :

Blood Group : ... AS

Occupation of Parent : Former ABCID : 158 172401874

MENTEE INFORMATION



MENTEE INFORMATION

Occupation of Parent Former Blood Group

Family Educational Background :

ABCID: 140457155662

Roll No. SET 22 DO07 Batch: S1
Name: Devkar Pooja Dhonaji
Mobile No. 7219561168 Email Id Devkarpooja (gmai) com
Correspondence Address: AT - Post Strindewadi Tul - Khundula Dist- Sutara
Name of Parent/Guardian: Devkar Dhanaji Shankar
Mobile No. of Parent: 9850383603 Relation with Guardian : Father
Family Educational Background :
Occupation of Parent : Messon Blood Group :

SI Batch SET 21 FO08 Roll No. Dhauqude Aditya Gunpat Name Mobile No. : 9858950707 Email Id. adityadhayagude 1137 @ gmail.com Correspondence Address At - Suched , Tal - Khandala Dist - Sutura Name of Parent Guardian: Dhuigude Gunpat Vishnu Mobile No. of Parent : 7709)92877 "" Relation with Guardian : Father ... Family Educational Background

Furmer Occupation of Parent Blood Group : AB(1D: 623024895240

MENTEE INFORMATION

lame :	Dhan Dik				
10bile No	9096640114	EmailId	dikshadham	12 @ gr	nail.com
orresponde Sp	ine roud,	A 11, 304, Chikhali,	Morya Socie Pune	ly, Gb	apkal,
ame of Par	ent / Guardian :	Vinod.	B. Dham.		
2			Relation with Gu	ardian :	Father
and Educa	itional Backgrour	nd .		-	1.

MENTEE INFORMATION



Roll No SET 2) FOOD Batch: S1 Dhumal Shivanjali Santosh Name

Mobile No. 7397945767 Email Id. Shivanjalidhumal 0707 @ gmail 10m Correspondence Address: At- Post kuranj khop, Tul- Koreguon Dist - Satara Name of Parent Guardian: Dhumay Suutosh Bubanraa Mobile No. of Parent : 7219827273. Relation with Guardian : Faller.

Family Educational Background :

Occupation of Parent : Social worker Blood Group : ABC JD: 462 529294754

MENTEE INFORMATION



ROHNO SET21FOIL Batch: SI Name: Dudhane Devang Dattatray Mobile No: 7447209145 Email 1d: devangdudhane@gmail.com Correspondence Address: AT Nand Post shind Tal Bhop Dist Pune 412206 Name of Parent/Guardian: Dudhane Dattatray Krushna Mobile No. of Parent: 7517920285 Relation with Guardian : Father Family Educational Background : SPPU 407 Occupation of Parent : Farmer A+ Blood Group

ABC ID: 165591967886





Name Gadre Pooja Shivaji Mobile No: 7744846442 Email Id: poojoga dre g2@ gmail.com Correspondence Address AT post - khaled, Tal - Purandhar Dist - Pune , Pin - 412301 Name of Parent / Guardian : Godre Shivaji Kaluram Mobile No. of Parent: 97 67686239 Relation with Guardian : Father Family Educational Background : Occupation of Parent : Peon Blood Group :

MENTEE INFORMATION

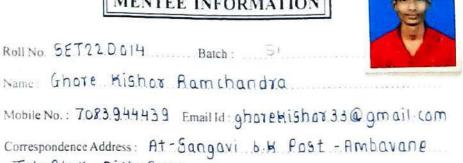
ABCID: 849394804716

AB(ID - 902361258362



Roll No. SET21 FD13 Batch : SI Name Gaikwad Sakshi Bhimaji Mobile No. : 87 67 96.0.689. Email 1d: Sakshigaikwad 12 347.@gmail.com Correspondence Address: 706, Bhelakewadi, Bhar. Tal-Bhor..... dist Pune 412206 Name of Parent / Guardian: Graikwad Bhimaji Sarjeraa..... and Aphile No. of Parent : 992282828 Relation with Guardian : . fathex. Educational Background :

MENTEE INFORMATION



ANALY ANALYSIS
Name: Ghore Kishor Ramchandra
Mobile No.: 7.083.9.44439 Email Id: gharekishar 33@gmail.com
Correspondence Address : At-Sangavi b.K. Post - Ambavane Tal-BhaxDist-Pune
Name of Parent / Guardian: Ramchandra Sopan Ghore
Mobile No. of Parent : 75075029 26 Relation with Guardian : Eather.
Family Educational Background :

Occupation of Parent : Former Blood Group : AB(ID: 119 121 412 603

MENTEE INFORMATION

Roll No. SET 22 DD15 Batch: SI
Name: TapHar Gista Datta
Mobile No.: 9503464980 Email Id: tupkorgerta 2000@gmail.com
Correspondence Address: Al-post Mandani, Tal- Ahemdpur Dist - Latur 413514
Name of Parent / Guardian : Mr. Datta Bapurar Tupkar
Mobile No. of Parent : 9145678230 Relation with Guardian : Father
Family Educational Background :

Occupation of Parent : tar mex Blood Group : B



Roll No. SET21E016 Batch:
Name Gole Prodnya Laxman
Mobile No. 8806245665 Email Id: golepradnyu 24@ gmail. Com
Correspondence Address AT - post Suscience
Name of Parent Guardian: Laxmon Ohoromaji Gole
Mobile No. of Parent : 98 60434505 Relation with Guardian : Father
Family Educational Background

Occupation of Parent Teacher Blood Group: A.+ AB(ID: 372675567513

MENTEE INFORMATION



Roll No. SET21F017 Name: Gole Shouti Sunil Mobile No : 9156009109 EmailId: Shoutigole 1027 @.gmail.com Correspondence Address: 886, choupati Bhav Tal - Bhox, Dist - Pune Name of Parent / Guardian : Gole Sunil Vasant Name of Parent : 9881209668 Relation with Guardian : Father Educational Background : Parent Cupation of Parent : Business Blood Group : A AB(ID:= 619602342235

MENTEE INFORMATION



Roll No. SET21F019
Name: Hoval Vijay Vikas
Mobile No.: 8766820842 EmailId: Vijayhaval4@gmail.com
Correspondence Address: At. post Andori. Tal-Khandala Dist-Satara Pin-415521
Name of Parent / Guardian : HOVQ1. VIKQ5. Baban
Mobile No. of Parent : 99.7532821.4. Relation with Guardian : Father.
Family Educational Background : Occupation of Parent : FarmerBlood Group : B ⁺
(G) SPPU Dinang
Occupation of Parent : Farmer. Blood Group : B ⁺
AB(ID:-698803191700





Rell No. SET 11DO QO Batch:
Name Jadhay Ankita Aba
Mobile No. : 9699051530 Email Id: ankitajadhav614@gmail.
Correspondence Address : Alp - Kenjal Tal Bhan, Digt - Pune Name of Parent Guardian : Agba Sakharam Jadhav
Mobile No. of Parent : 9890569427 Relation with Guardian : father.
Family Educational Background
Occupation of Parent former Blood Group:

MENTEE INFORMATION



	Roll No. SET 22.D 0 2.1 Batch :
	Name: Jadhav Goyatii Ramdas
	Mobile No. 8956670846 Email 1d: gayatrijadhav 0.8.46 @ gmail-
	Correspondence Address: At post Shixasgaon Kata. Tal-Shixux Dist-pune 412210
	Name of Parent / Guardian: Ramdas. Prakash. Jadhav
Dryago	Mobile No. of Parent: 9405854821 Relation with Guardian: fother.
TE-6324 PU-407 Angewal	
Mart	Scupation of Parent : faim ex Blood Group :
	AB(ID - 326 714 289 113

MENTEE INFORMATION



Roll No. SET21.FO.22 Name: Jagtap Aditya Sanjay Mobile No.: 9373751128 Email Id: (ontactadijggtap@gmail: com Correspondence Address: At: Wadwadi, tal-Khandala, dist - Satara, maharashtra 412801 Name of Parent/Guardian: Sanjay EKnath Jagtap Mobile No. of Parent: 9067644258 Relation with Guardian: father Family Educational Background:

Roll No. SET21F023 Batch :
Name Jagtap Sourav Pramad
Mobile No.: 8888343670 Email Id: prover aproved and com
Correspondence Address: At/POAS- Dhon puel: 1 Tals- Khodan. Dial i- Satara
Name of Parent / Guardian: Premad Gulab Jagtap
Mobile No. of Parent : 365793750/ Relation with Guardian : Faller
Family Educational Background :
Occupation of Parent : for mer. Blood Group : B ⁺

Batch



Roll No. 251120014 Name Jangam Rishwarya Bajrang Monter No. 9359014250 Email 18 Objangam 2203@gmail-com Correspondence Address Chickan Ambethan Chiculk FULLE Name of Parent, Guardian Eujiang Shamiaa Jangam. Mobile No. of Parent 9623140712 Relation with Guardian: father

Family Educational Background

Occupation of Parent 101ME1 P8(10 917)19339764

Blood Group

MENTEE INFORMATION



MENTEE INFORMATION

Roll No. STILCCOG Batch

Name Distinct to Adesta Hemant

Mobile No. \$\$30396755. Email 1d adeshinarath is legmant ion

Correspondence Address Starree Sai Heritage Flatine 116 infloor. Navale budge , Sadashiv nagar Ambegaon Pune Name of Parent Guardian Hemant Vishwanath Deshmukh

Mobile No. of Parent : 9550473860 Relation with Guardian : fatters

Family Educational Background :



Occupation of Parent : Contractor Blood Group : ____A * ABCJD: 518746060750

Roll No. Batch :
Name
Mobile No. : Email Id :
Correspondence Address :
The second dependence of the second
Name of Parent / Guardian :
Mobile No. of Parent : Relation with Guardian :
Family Educational Background
Occupation of Parent :



PHONE CALL RECORD SEMESTER- I

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Sr. No.	Roll No.	Name of the Mentee	Date	Time	Call Received By	Phone No.	Points Discussed	Remark
1	SET 21 FOO)	Ambike Atul Vilas	23/11/23	1:30	Not Received	7350949383	177	
2	SET21DOO3	Bhosale Ankita R.	-11-	1:45	Father	9373317246	Regarding	Job - 1-mon Ccommence
3.	SET212008	Dhaigude Aditya G.	-11-	1:55	Brother	7709192877	Mad addamation .	at from
4.	ETHFOIO	Dhumal shivanjali s.	<u>—n</u> —	2:00	Father	7219827273		Monday he will Cusion Experire Monday report
5.	SET21FOI	Dudhone Devang D.	<u>-n-</u>	2:10	Not Received	12		
G.	SE 1722 Do 14	Ghore Kishor R.						
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		100 Bayer						
		1.1.7	· .		CB 3 Dryambees			
				1	EPPU:4071 Driancawadi			
				1	EPPU:4071 Driancawadi			
-					Star Shore Col			

SI No	Rot No	Name of the Mentee	Date	Time	Call Received By	Phone No	Points Discussed	Remark
1	SEDIFOR	Ambike Atu	1.0.22	3:000	n Monther	735094938	3 Regarding	
2	02	AKShada				996068328	5 Allendara	
3	07	Derkar Pooja	7-	3:15		721956116		
-	11	Dudhase Dorang	7	5:20	Father	the state of the s		
5	09	Dhas Diksha		3:25	Not Received	9096640110		
5	15	Tapkar Greeta		3:30	Not Received	9503464950		
+								
1				1	DTE 6324			
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+					Small B			_
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PHONE CALL RECORD SEMESTER- I

PHONE CALL RECORD SEMESTER- I

Sr No	Roll No	Name of the Mentee	Date	Time	Call Received By	Phone No.	Points Discussed	Remark
	06	Deshmuth Adesh	1-11-22	12:00	Father	965047386	o class Attanda	
	25	Jangam Mayur	7	12:05	Father	And the second se	· Attendance	
	24	Jangam Aishway	7-	12:10	Brotho	962324071	2	
	23	Jagtap Saumr	7-	12:15	Uncle.	779698303	8 7-	
	22	Jugtap Delitya	-1	12:20	nother	9067644258	-1	
		Ū						
					1			
	1							
					COTE 6324			
				Í	Conangewise			
_					Pure A			
					San Streamore			

ised Remark	7	1 Attendare	Pre	l										
Points Discussed	22 7 75	5	39 iste	828 -	5									
Phone No.	9405854822	9890569427	9767686239	9922822828										
Call Received By	Mother	Mother	Father	Mottor	- 1			TOBAL	Safe 6324 4	Sopularity 100	and a set	E STORE		
Time	2-11:0	11:00	11:00	11:00					1	tex e				
Date	12-10.22 11:0	L-	L	l F										
Name of the Mentee	Jadhav Gayahi	Jadhav Ankita	Gadre Pooja	Gevikwad sakshi										
Roll No.	21	20	12	ы М										
Sr. No.					-		-	_						

DECODO CEMESTED LINC HUNCHO

MENTOR - MENTEE MEETING RECORD

Meeting		Contraction of the second seco	
No.	Session Date & Time	No. of Students Present	Points Discussed
01	Morning 1.08.22 11:30 An	1.08.22	 P Discuss Menter Mentee obj. 1. Building Mi-M Relationship 2. discuss how to progress in sem-I 3. Compulsory Attendance
Meeting No.	Session Date & Time	No. of Students present	Points Discussed
82	AFternon 05.09.22 2:00 pm	- 15	Isten issues faced by student is canpus fiel ag 1. Water purifier 2. library Bookissue 3. O.S. Admin Work
Meeting No.	Session Date & Time	No. of Students present	Points Discussed
03.	Moining 1.11.22 11:15 AM	22 Shart poorent	points discuss about academic poepsess, Attendance, Tu-sem markers, upcoming possible cal exam & SPPU theory exam Fear how to come over theat
Meeting	Session Date & Time	No. of Students present	Points Discussed
No.			AD864

MENTOR- MENTEE MEETING ATTENDANCE RECORD

Roll No.	Name of the Student	Session No.	1	2	3	4	5	6	7	8	9	10	Total
1		Date	1-8	66.	1.0								
1	Ambilca	Atul	p	•9	P								
2	Adhalika	r Akshada		P	0								
3	Bhosale	Ankita			p								
4	Borkar S	Sameer	ρ	P	P		-				9.00		
5	chavao "	Tejag		-	P								
6	Deshmuk	5 Aden	ρ	P	ρ		\square						
7	Devicar 1	Dooja		-	P	-		-					
8	Ohaiquel	e Aditya	ρ	p	P	-	-						
9	Dham s	Diff	ρ	p	P		-						
10	Dhymad	shivanjili	P	P	P		-		\vdash				
11	Dudhase	Devana	Ρ	-	r				-				ter an
12	Gadre (Dooja	-	p	P	-	\vdash		-				
13		1 Sakehi	p	P	p	-		-					
14	Ghose &				P	-	-				-		
15	Gita Do	ut ta		P	P				-				
16	Gole Pm	dhya		p	P								
17	Gole st		┢	İ	P								
18			p	P			\square		\square				
19	Hingane Hoval	vijay	ρ		P								
20	Jaehav	Ankita	P	P									
21	Jadhar	Ankiter Goyahi	P	P	P								
22	Jagtap				P								
23	Jagterp				P								
24	Jangam	Airhway	-	٩	9								
25	Jangam	Mayur			P								
	1	Signature of Faculty	-		h								
	Signature of Acad	demic Co- Ordinator	5	Sta		9							
	Signature of	Head of Department	+	m	-								



STUDENT COUNSELLING RECORD

Sr.	:	N. Alta Mantaa	Date	Time	Issue	Suggestion	Remark
No.	Roll No.	Name of the Mentee	Date			elend all	
l	07	perkar Pooja Dhanaji	1.8.22	11:00 An TO 11:20 An		ce attend all Regular classes	
२ .	19	Horal Vijay Vikag.	1-8.22	.10	Conmunication Situ teacher.	speak regularly with all teachers	glone
Na	06	Deshmukh Adesh Hemant.	1.8.22	2:00pm t0 2:30pm	poor marks.	focus on study & Regular classeg	. <u> </u>
							-
	r., .		-54	AN SHALL	6324 1,4071 1,4071		

IMPROVEMENT STATUS OF MENTEES

Name of the Student	Active Participation in Mentor Program (Yes / No)	Areas of Improvements Seen in Student	Remark
bike Atul Vitas	Yes	Attendan (C	
halikaz Akshada	Yes	overail academic improvement	
sall Ankita	Yes	Communication scill	
kar Sameer	Yes	Attendance	
ivan Tejas	Yes	In sem mall	
rmuth Adesh	Yes	Communication Still	
kar Pooja	Yes	ommunication skill	7
aigude Adityu	Yes	Hendare	-
m Diksha	Yes	Attendace	
m	Diktha Diktha Borrano Sputat Sputat Dietota Are Are	Dikiha Yes	Dikiha Yes Atterdaree

IMPROVEMENT STATUS OF MENTEES

Roll No.	Name of the Student	Active Participation in Mentor Program (Yes/No)	Areas of Improvements Seen in Student	Remark
10	Ohumal Shivanjali	Yes	Communication SZ-11	
11	Oudhane Devang	Yes	Communication Steill	
12	Geedre Pooja	Yeg	Attendance	
13	Gerikwad Sakshi	Yeg	Attendence	
14-	Ghore Kishor	Yes	Campilatia skill	
15	Gita Oatta	yes	Jusen mark	
16	Gole Prachyer	Yes	lomme. SLill	
17	Gole Struti	yes	practical perform- imporre	-
18	Hingune Ganesh		Compunitation skill	

IMPROVEMENT STATUS OF MENTEES Areas of Active Improvements Remark Roll Participation in Seen in Student No. Mentor Program Name of the Student (Yes / No) Affendance Yes Horal Vijay 19 Attendance Julhav Ankiter Tes 20 Communicalf Jaelhar Gayata 21 Yes scill Accademic Jægter Adityer perforance 22 Yes mpore lommuni Jagtap Saucar 23 Yes skill Academic Jalgam Ashwazyer 24 Yes Perfere In provenjeit 25 Jangam Mayuz. Yeg Afendance Dec

Shw

50 Maga	Plant Neo	Norre of the Machine	Chatton	Teme	Call Received By	Physical Net	Provide Desconant	Flageriarb
1	8.9.7 A.	Amble Find N. Port	28/2/28	150	Net Restand	113509445A1		
2	W TERROR	GLevale Area R		1.4.5	Faller	ASTANTON &	Negander 4	Table range
3	21 per 1	Dhargade Adda a		1.1.1	B+ / Hota	120 919 28 22		and From Mediation
		Ohemal Chicagolis		2 00	Father	721982 5579		Handing - per
5	805 TO 1070071	Dudhara Devar 9D		2.10	Not Received	1519920121		
6	LA TO ADDA	Ghore Kishor R		$(2) \to (2)$	Faller	2501501916	Prot assending	Tobat and Tob Barn Prenawy
7	MEY: Del	Hoval Vijay Vika,		2 0.0	Not Record	497125:14	A STATE OF AN	anentarianteri
6	EF122 Jas	Judhar Gayati 12	-11	8.2.5	Not Rectional	3405854602		
9	St. TV/ Pour	Jagtap Samar P		230	Mather	7196983638	Regarding enter	Hartel (Di presory with
10	AFTE: Day	Jongan Muyur V	-11-	3.32	Father	1422.304 340	and the second	Today ? regulate
	(\uparrow_2, q_2)	Ambiae plud v las	2 /2/23	1 10	tion for an end	1:500.00		
	ETHERN	Berkey Somer 13	1	11:35	Eather	946995 1554	Car interest of	Contract reports
	Ettille	Pharquele Bally 6		11 44 2	Breday	1109191811	1	
	ET DECTO	Dhumal Sherongal	-1-	11 - 8	Faller	15 62 144	3	·
	ET1) FC (1	Dulhan Derang	-11-	11 53	Fallen	151792-28	10000	
-	Erano	Tongam Mayur		11 55	- Hum	94 22 506 34	66	Met Tillingen

PHONE CALL RECORD SEMESTER- II

PHONE CALL RECORD SEMESTER- II

Sr	Rail No	Name of the Mentee	Date	Time	Call Received By	Phone No	Points Discussed	Remark
3	Foi: 1	Forbike Alud Vilas	633323	1 30	Father	7351949353	wet allend	Semi work
5	T2 1500 6	Deshmukh Adesh H	-11-	1:35	Father	9850473860	- 11	Not leading with
41	ETTIFIC 8	Dhaigude Aditya	-11-	1:45	Father	7409192847		Problem
-	SET: IF OF	Dudhane Devang D.		1:50	Father	7517920285		c - language cl
-	SETLI FOIS	Hoved Vijay Vikas	-11-	1:5	Father	9975328214	- 11	
	1922	Jadhar Gayatri		2.00	Futher	940585421		Mon decided
3	F === (02)	Tangam Muyury.		2.05	Father	9422504340		Not felling well
	ET LE FOC	Dhaigude Aditya	313 123	2,100	Brothur	77 09/92877		EBC problem
5	672 Fezg	Jaglup Saurav P		4'10	pro their			6 - day Farmi
	E	Dashore Devorg	20/3/23	4.00	Father	7517920285	Attendance	South in para which
-		D'hangude fdity	-11-	4 0	Father	410919181A	Not Percived	
	5 - 2005	Cennin Acer =	243 33	2.50	Fainer	9350413860	C an Emmolance	Com tomorto al Recalco como o
_		James a against	1	3 2000	Not Revenues	4409191328	mar for erroral	
-		en an in free R y		3 2.04	Brotter	75015024-0	Principa	no de reall
_		Taura State 6		3 0104	Mothers	2236983438	22.00	States and all
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MENTOR - MENTEE MEETING RECORD

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feeting	Session Date	No. of Students	Points Discussed
o.	& Time	Present	
1	13/2/23 3: 3 5 Pm	13	Discuss Objective of a mentor - menter meeting. >> Building a relationship >> Setting goals >> Caudenee & Supports +> Sharing knowledge s> Evaluating process.
Meeting	Session Date	No. of Students	Points Discussed
No.	& Time	present	
2	20/2/23 3:35°pm) 1	Assignment given to all student 1. Write 1-2 Payes on a person for know who has in fluenced your lot. You should have Sufficiently interacts with that person. It maybe Core family momber/extended family member leacher / neighbour (Two persons)
Meeting	Session Date	No. of Students	Points Discussed
No.	& Time	present	
J.	15/3/23	08	Assignment given to all student Building relationship evaluation process.
Meeting	Session Date	No. of Students	Points Discussed
No.	& Time	present	
4	27/8/23	1	discuss about future goals. 4 foundation about that same gos Pessonality Development relatate Hygenic awareness about health

MENTOR- MENTEE MEETING ATTENDANCE RECORD

Roll	Name of the	Session No.	1	2	3	4	5	6	7	8	9	10	Total
No.	Student	Date	13]	2 20	2 15	3 27	13						
1	Ambike N	ul Vilas	De	alle a	and a	400	\$F						
2		ar Akshude	X	1	1	T							
3	Bhosali An		T	T	Anil	N	it.						
4	Borkar :		COLLY	6 (Q2)							_	_	
5	Chavan	Teias	1				Τ					_	
6		ch Adesh	N	nhe	quel	AV							
7	Devkar 1		T	Γ									
8	Dhaiau	de Aditya			T								
9	Dhum D	iksha	subs	2		2.15	214	a					
10		Shivanjal	_		×								
11	Dhudhan.	e Devang		İ									
12	Gudre P	poin J			ali	de							
13	Gaikwa	J Sakshi	Er.	Ør.	Γ								
1.4	Ghore H	ishor	aut.		1								
15	Gila Tu					ero.	ater			1			
16	Gole Proc	Inua	Balo	Bak	GAR	de							
i7 -	Gole Prac Gole Shr	uli		barti		enco	trust		1				
18	Higane (sunesh					-			+		+	
19	-Hoval Vi	Jay	Mps	the	-					+	-	-	
20	Jadhuv E	Inkila	1.7		Ab	12	Ex			+	+	+	
21	Jadhav G	iayatri			Pr	11	-	1	+	+	+	+	
22	Jagtap			1		4		+	+		+	+	
23	Jaytap &	Sayrav	Q	2	Q	0		+	+		-	+	
24		Aishwaryg		-	-		-	+	+	+			
25	Jangum	Mayur					+	+	+	+	+		
		gnature of Faculty	tin.	in	In	in	tu	+	+	+	+		
	Signature of Acaden		-	The			1						
	Signature of He	ad of Department		- 9	2						_		



Class	:	STU	DENT	COUN	SELLING R	ECORD	-T 0 - 1 4
Sr. No.	Roll No.	Name of the Mentee	Date	Time	Issue	Suggestion	Remark
1	04	Barkar sameer	13/2/2	11:30 An to 11:45	Poor Attendance	D'Atten Regular classes f Pr Make good friend	Juprovement Seen
ຊ.	15	Gita tepkoz	13/2/23		Poor 6 mmunication	P inhance english	

In proxement

d Regular es of all	
ar classes f pr.	
	ar classes f pr.

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IMPROVEMENT STATUS OF MENTEES

Roll No.	Name of the Student	Active Participation in Mentor Program (Yes / No)	Areas of	Remark
	Ambike Atul	Yes	Communication Skill	
2	Adhalikar Akshada	Yes	Lab Prachical Pelformance	
3	Bhosale Ankite	Yes	Alterdance	
4	Borkar Sameer	Yes	Communication	
5	chavan Tejag	Yes	Communication	
6	Deshmuth Adesh	Yes	Attendance	÷
L	Devkar Pooja	Yes	SPPUTH exam paper Writting	1¢
P	Phaigude Aditya	Yes	Attendance	
	Dham Dikgler SJryanDes	Yes	Communicati	

IMPROVEMENT STATUS OF MENTEES

Roll No.	Name of the Student	Active Participation in Mentor Program (Yes/No)	Areas of Improvements Seen in Student	Remark
10	Dhumal Shiranjali	Yes	Communication	
11	Duelhane Devangy	les	Attendan co_	
12.	Cruise Pooja	Yes	lab Prachial Performance,	
13	Gentricad Batishi	les	Communication	
14	Ghove Rooj Kimor	Yes	Attaclance	
15	Gita Datle	Yes	TH exam peparahan	
16	Gole Poudnyee	Yes	Communication	-
7	Grate struti	Yes	Attendance	
18	Mingare Ganesh	Yes	17H exom peparation	

IMPROVEMENT STATUS OF MENTEES

Roll No.	Name of the Student	Active Participation in Mentor Program (Yes/No)	Areas of Improvements Seen in Stadent	Remark
19	Hurde Vijay	·les	Crevall Aradomic GSCWH,	
70	Jadhar Ankita	Yes	Commune	
21	Judhav Gayati	Yes	Commune"	
22	Jugtap Aditya	Yeg	Alteridan ce	
23	Jaytap Sourar	Ye	Commune 9	
24	Jangam Aishwary	Yq	Attadace	
25	Jangern Mayroz	Yes.	Tab practical performance	
		The second second		
	20 DE			

10. APTEL Video

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune -412205 (MS), India.

DEPARTMENT OFELECTRONICS AND TELECOMMUNICATION ENGINEERING

Academic Year : 2022 -23 , SEM - II

 Class: BE
 Course: Fiber Optic Communication

 Course Code: 404190
 Faculty Name: Prof. Bandal J. J.

Faculty Name. 1101. Danuar,

DIGITAL CONTENTS

Lecture No	Topics to	be covered	References (With Page No)
		UNIT I	
C. DIGIT	AL CONTENTS		
Sr.No.	Name of Topic	NPTL Video	Link (Web Address)
W1	Fundamentals of Optical Communication: EM spectrum	https://www.youtube.com/w	vatch?v=jZOg39v73c4&embeds_eu c.in%2F&feature=emb_rel_pause
W2	Shannon channel capacity		ourses/video/108104098/L35.html
W3	Optical Fiber Waveguides	4	el/courses/video/115107095/L19.ht <u>ml</u>
	AL CONTENTS		
Sr.No.	Name of Topic	Other Video	Links / PPT / PDF
W1	Optical fibers for 5G	nity. g/5-t tical-	s://commu fs.com/blo ypes-of-op -fibers-for- etworks.ht ml
W2	Fiber types	https://youtu	u.be/C8tNsfnCC6M
W3	Optical Fiber Waveguides Mode theory for circular		u.be/4S5aP-LD1jg
W4	waveguides	https://youtu	u.be/ZMoFd21QTyl
W5	Signal distortion		be/BGUhTDWkwx8
W6	intermodal delay, intramodal dispersion or chromatic dispersion		1.be/G4OpQnJFUiE
	AL CONTENTS		
Sr.No.	Name of Topic	e	-Book
1	Fiber Optic Communication System	https://drive.google.com KMX_rC3O2Gmwa	/file/examiser Calescie AP9A0- d/ Care asp=drive rep E&TC E E&TC E Deptt.

Ga + aund



. DIGIT	AL CONTENTS	
Sr.No.	Name of Topic	NPTL Video Link (Web Address)
	Optical Sources:	
W1	Introduction	https://youtu.be/olurmHsRFSc
W2	Optical Sources	https://youtu.be/ougKUUM3hJA
	Analog modulation, digital	
W3	modulation,	https://youtu.be/C3Vh2f_a4Ll
W4	Semiconductor Laser Diodes	https://youtu.be/sb9KEhKSkPc
W5	Output power characteristics	https://youtu.be/oR5mcnGwOu8
W6	Semiconductor Laser Diodes	https://youtu.be/x2Ls32-jWkQ
DICIT	LL CONTENTS	
Sr.No.	AL CONTENTS	Other Video Links / PPT / PDF
W1	Name of Topic Optical Sources:	https://youtu.be/lz-httvcFlQ
1 1	LED: principle of working	mttps://youtu.ne/nz-nttvcrig
	Quantum efficiency	
	Optical output power	
W2	characteristics	https://www.tu.ha/7.0011/2hald
VV 2	Analog modulation, digital	https://youtu.be/7yj8Hk3hokl
W3	modulation,	
W4	Semiconductor Laser	https://youtu.be/SJrwnqHFXJE
W4 W5	Laser Diode	https://youtu.be/gX5vd7AZyJA
VV J	Output power characteristics	https://youtu.be/4xiZQW-WHQQ
W6	of Laser	https://www.hellower.hullo
WO	01 Laser	https://youtu.be/6IHyoynNKb0 UNIT III
. DIGIT	AL CONTENTS	
Sr.No.	Name of Topic	NPTL Video Link (Web Address)
W1	Photo Detector	https://youtu.be/1X2Xt7wlcbA
W2	Photo sensors	https://youtu.be/DNSvULGsZGw
	p-n, pin, Avalanche photo	
W3	detector	https://youtu.be/H5VSrybJ6XU
W4	photo diode	https://youtu.be/pCFczXCcRBU
W5		
	Characteritics of	
W6	photodetectors	https://youtu.be/N2IAs3b8H4Q
W7	Bit Error rate	https://youtu.be/bBR9cPgMX-0
State of the second second	AL CONTENTS	
Sr.No.	Name of Topic	Other Video Links / PPT / PDF
W1	optical detectors	https://youtu.be/4Mlylb3oGBM
W2	optical Sensors	https://youtu.be/DNSvULGsZGw
	Difference between P-N &	https://woutu bo/1002wp2ale 5milai "ie Co
W3	Avalanche photo diode	https://youtu.be/IQC2xra2gb(155)
	Construction & working of	E&TC
W4	photo diode	https://youtu.be/T00KGgMnJ6s
1110	Photo diode basics	https://youtu.be/zyeRCGeciVo
W5		
W5 W6	Photo transistor	https://youtu.be/DKMUGvJHbB4

	Comparison of	in the facable of facable of fin
W8	photodetectors	
W9	Photo Transistors	https://youtu.be/zL_PW3RZxcY
W10	Bit Error rate	https://youtu.be/w7zjVM-gcxQ
		https://youtu.be/v5jZSm6lMwU UNIT IV
C. DIGIT.	AL CONTENTS	UNIT IV
Sr.No.	Name of Topic	NPTL Video Link (W. L. M. L.
W1	Point to point optical link	NPTL Video Link (Web Address)
W2	Point to point optical link	https://youtu.be/XgcDYxRtP_k
W3	Optical power budget	https://youtu.be/15WulWvjWEg
	WDM Concepts &	https://youtu.be/ougKUUM3hJA
W4	Components:	https://www.le./c.oursenance
	WDM Concepts &	https://youtu.be/5y3jZ2UBTGo
W5	Components:	https://www.hulautora
W6	Optical Isolator	https://youtu.be/NSxn15VKAUc
W7	Optical Amlifier	https://youtu.be/OFQhVEvBHO0
		https://youtu.be/5dlYNJWkzTc
D. DIGIT	AL CONTENTS	2
Sr.No.	Name of Topic	Other Video Links / PPT / PDF
W1	Point to point optical link	
W2	Optical power budget	https://youtu.be/NctDb6pWpoA
	WDM Concepts &	https://youtu.be/mgKaVbo_dsE
W3	Components:	https://www.hell.com
W4	Optical Isolator, circulator	https://youtu.be/uBAp-zBJho4
W5	Optical Amplifier	https://youtu.be/3d7iBFRhHIA
W6	Optical Amplifier	https://youtu.be/yWzZrG29_Mc https://youtu.be/h2m2TGdwU
		UNIT V
C. DIGIT	AL CONTENTS	
Sr.No.	Name of Topic	NIDTH VILL ALL STREET
51.110.	. tune of ropic	NPTL Video Link (Web Address)
	Fundamentals of Optical	NPTL Video Link (Web Address)
W1	Fundamentals of Optical Networks,	
W1	Fundamentals of Optical Networks, Fundamentals of Optical	https://youtu.be/olurmHsRFSc
	Fundamentals of Optical Networks, Fundamentals of Optical Networks,	
W1	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network	https://youtu.be/olurmHsRFSc
W1	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology	https://youtu.be/olurmHsRFSc
W1 W2	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E
W1	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc
W1 W2 W3	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc
W1 W2 W3 D. DIGIT	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc https://youtu.be/kmaZHsin4i4
W1 W2 W3	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc
W1 W2 W3 D. DIGIT Sr.No.	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH CONTENTS Name of Topic Fundamentals of Optical	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc https://youtu.be/kmaZHsin4i4 Other Video Links / PPT / PDF
W1 W2 W3 D. DIGIT	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH XAL CONTENTS Name of Topic Fundamentals of Optical Networks,	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc https://youtu.be/kmaZHsin4i4 Other Video Links / PPT / PDF https://youtu.be/4W7hieXDAmc
W1 W2 W3 D. DIGIT Sr.No. W1	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH Xame of Topic Fundamentals of Optical Networks, Optical network	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc https://youtu.be/kmaZHsin4i4 Other Video Links / PPT / PDF https://youtu.be/4W7hieXDAmc
W1 W2 W3 D. DIGIT Sr.No.	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH Vame of Topic Fundamentals of Optical Networks, Optical network terminology	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc https://youtu.be/kmaZHsin4i4 Other Video Links / PPT / PDF https://youtu.be/4W7hieXDAmc
W1 W2 W3 D. DIGIT Sr.No. W1	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH Value Contents Name of Topic Fundamentals of Optical Networks, Optical network terminology	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc https://youtu.be/kmaZHsin4i4 Other Video Links / PPT / PDF https://youtu.be/4W7hieXDAmc https://youtu.be/kChsckv9zkQ
W1 W2 W3 D. DIGIT Sr.No. W1 W2	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH Zata CONTENTS Name of Topic Fundamentals of Optical Networks, Optical network terminology Desirable properties of optical	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc https://youtu.be/kmaZHsin4i4 Other Video Links / PPT / PDF https://youtu.be/4W7hieXDAmc https://youtu.be/kChsckv9zkQ
W1 W2 W3 D. DIGIT Sr.No. W1	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH Value CAL CONTENTS Name of Topic Fundamentals of Optical Networks, Optical network terminology Desirable properties of optical network	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc https://youtu.be/kmaZHsin4i4 Other Video Links / PPT / PDF https://youtu.be/4W7hieXDAmc https://youtu.be/kChsckv9zkQ
W1 W2 W3 D. DIGIT Sr.No. W1 W2 W3	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH Zata CONTENTS Name of Topic Fundamentals of Optical Networks, Optical network terminology Desirable properties of optical	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc https://youtu.be/kmaZHsin4i4 Other Video Links / PPT / PDF https://youtu.be/4W7hieXDAmc https://youtu.be/kChsckv9zkQ
W1 W2 W3 D. DIGIT Sr.No. W1 W2	Fundamentals of Optical Networks, Fundamentals of Optical Networks, Optical network terminology FTTX, FTTP, FTTH Zate Contents Name of Topic Fundamentals of Optical Networks, Optical network terminology Desirable properties of optical network Elements of an optical	https://youtu.be/olurmHsRFSc https://youtu.be/DpSJbtt5V7E https://youtu.be/4W7hieXDAmc https://youtu.be/kmaZHsin4i4 Other Video Links / PPT / PDF



11.Technical Quiz Competition Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal- Bhor, Dist- Pune

Date: 20/01/2023

NOTICE

All faculty members of first year engineering department are here by inform that we are going to arrange Quiz Competition on 31/01/2023 on unit-I of each subject. In this concern submit the soft copy of 15 questions with four options and its correct solution to Prof. B.P. Tapare of FE department on or before 30th Jan 2023. Kindly forward soft copy of your question bank on tapare.rajgad11@gmail.com.

Sr. No	Subject	Name of Subject Teacher	Signature
1.	Engineering Mathematics-I	Prof. J. G. Kale	state
		Prof. G. H. Fartade	ang
2.	Engineering Physics	Prof. R. B. Raut	AL.
3.	Engineering Chemistry	Prof. A. K. Kondhalkar	Hamilike
4.	Basic Electrical Engineering	Prof. T. M. Dudhane	Thill have
5.	Engineering Mechanics	Prof. A. B. Pol	TERE
6.	System in Mechanical Engineering	Prof. L. P. Maske-Patil	Attution
7.	Programming and Problem Solving	Prof. B. D. Thorat	BDT

Prof. Tapare B. P. Departmental Quiz Coordinator



Profi Kale J.G.

HOD F.E Head of Department First Year Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206



Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal- Bhor, Dist- Pune.

Date: 25 / 01 / 2023

NOTICE

All faculty members of first year engineering department are here by inform that on the occasion of Quiz Competition scheduled on 31/01/2023 at 3.00 P.M in seminar hall, the responsibilities in that event are distributed as follows.

Sr.No	Name	Responsibility	Signature
1.	Mr. Gaikwad Rohit	Seating Arrangement (Arranging Chairs; Mike; Projector; Black board)	Reikwal
2.	Prof. G. H. Fartade	Anchoring (Announcement of questions)	as
3.	Prof. B. P. Tapare	Displaying PPT 's	Gourt
3.	Prof. R. B. Raut Prof. A. R. Bobade	Response checker in buzzer round	æ
4.	Prof. R. B. Raut	Updating division wise Score	Res
5.	Prof. J.G. Kale	Subject Expert of M-I	stare.
6.	Prof. R. B. Raut	Subject Expert of Physics and Mechanics	Rei
7.	Prof. A.K Kondhalkar	Subject Expert of Chemistry	Atomone
8.	Prof. J.J Bandal	Subject Expert of BEE	the
10.	Prof. D. B. Shelake	Subject Expert of SME	Berne
11.	Prof. B. D. Thorat	Subject Expert of PPS	BOH



Prof. Tapare B. P.

Departmental Quiz Coordinator

Prof. Kale J. G.

HOD F.E Head of Department First Year Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206



Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal- Bhor. Dist- Pune

Date: 20/01/2023

NOTICE

All students of First Year Engineering hereby inform that, we are arranging "Quiz Competition on 31/01/2023 at seminar hall from 3.00 PM onwards.

Attendance is compulsory to all students.



Prof. Tapare B. P. Departmental Quiz Coordinator

Prof

HOD F.E Head of Department First Year Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206



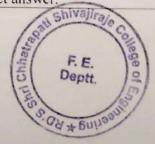
Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal- Bhor, Dist- Pune.

Department : First Year Engineering

RULES OF QUIZ COMPETITION 2022-23 (Sem-I)

	Buzzer Round – Eight questions in all
	▶ 8 questions will be fired at all the teams one after another.
	The teams can discuss among themselves and then press the buzzer/bell to answer the question first. No discussion is allowed after pressing the buzzer.
	The team that presses the buzzer/bell first gets a chance to answer it.
	> 10 points for the correct answer and minus 5 points for the wrong answer.
Round 1	If a team doesn't answer or gives a wrong answers after they press buzzer they also lose 5 points.
Round 1	If a team presses the buzzer before the question is over they will be asked to answer it without the question being completed.
	The question has to be answered in 30 seconds.
	If a question is not answered by the first team who pressed the bell. The team that pressed the bell next gets to answer.
	There are no choices in this round.
	If two teams press the buzzer/bell together there will be a pull of cards to decide who gets the chance to answer if. If the first team answers it correctly they get a point. If they give a wrong answer they lose 5 points and the next team that pressed the buzzer gets to answer.
	Compulsory Questions – Each team quota of 4 questions.
	In this round each team has its own quota of 4 questions and other questions passed to it from the previous team that did not answer.
Round 2	A team gets 30 seconds to answer the question intended for it, and is awarded 20 points for answering it.
	If the team, the question intended for gives a wrong answer, the quiz master will give the correct answer.



	If the team that the question intended for passes it. The next teams get 15 seconds to answer it and is awarded 10 points for the right answer.
	The team members can discuss before giving the answer.
	If a team cannot answer a question they can pass it or after 30 seconds it gets automatically passed to the next team.
	If a team is answering a question and the time passes, then the team gets to complete the answer and is awarded points for the right answer.
	There is no negative marking for wrong answer.
	No buzzer is used in this round
	Scholars Round - Each team quota of 4 questions.
Round 3	In this round each team has selected only scholars students they play the game.
	Same rule as raound-2
	In case of a tie.
	In case of a tie after the 4th round, the tied teams get into a buzzer/bell round.
Round 4	 Rules are similar to buzzer round.
	If a team answer right they get 25 points. If they answer wrong they get minus 25 points.



Rajgad Dnyanpeeth's Shri Chhatrapati ShivajiRaje College of Engineering, Dhangwadi, Pune

FE SYLLABUS QUIZ

03----

Academic Year: 2022-23 (Sem-I) DEPARTMENT OF FIRST YEAR ENGINEERING

ROUND 1

RBUZZER ROUND



M-I QUESTION NO.1

Sife $u = \sin^{-1}\left(\frac{\sqrt{x^2 + y^2}}{x + y}\right)$ is homogeneous function of degree

A. 1 B. ¹/₂ C. 2 D. 0



(A If $u = x^{2}$, then $\frac{du}{du}$ is equal to

3.0 5 yr^{y=1} x^ylog x 13. None

MI QUESTION NO.3

A Two functions u(x,y) and v(x,y) are functionally dependent if their jscobian $\frac{\delta(wr)}{\delta(wr)}$ is equal to

A. 1 B. 0

C xy

D. vv

M-I QUESTION NO.4

ce With usual notations, the condition of meximum for function of two variable is

 $\begin{aligned} r_t - s^2 &\in 0 \quad \text{and} \ r &\leq i \\ \tilde{r} - s^2 &= \tilde{c} \quad \text{and} \ r &\geq 0 \\ C \quad r_t - s^2 &\geq 0 \quad \text{and} \ r &\leq 0 \\ 0. \text{ Note:} \end{aligned}$



EXTRA M-I QUESTION NO.5

for If $u = x^2 + y^2$ and v = 2xy then the value of $\frac{\partial(u,v)}{\partial(x,y)}$

- A. $4(x^2 + y^2)$
- $B_{-} 4(x^2 + y^2)$

is

- C. $4(x^2 y^2)$
- D. 0

EXTRA M-I QUESTION NO.6

OR The percentage error in the area of a rectangle when an error of 1 % is made in measuring it's length and breadth is

A. 1% B. 2% C. 0 D. 3%

SME QUESTION NO.7

Connecting rods are generally of following form _____

- A. Forged I section
- B. Forged round section
- C. Cast iron round section
- D. Forged C section

SME QUESTION NO.8

© When No.1 piston of 4 cylinder inline engine is performing the power stroke then No.4 piston is on the stroke called_____

- A. exhaust
- B. Suction
- C. compression
- D. power

SME QUESTION NO.9

A 4*4 drive vehicle implies that

A. it has 4*4=16 wheels

- B. it has 4 spare wheels and 4 road wheels
- C. it has 4 wheels out of 4 are drive wheels
- D. none of the above



cal H.P. is equal to ----- watts

A. 810B. 545C. 634

10. 746



EXTRA SME QUESTION NO.11

ca Which type of wheels are preferred in a sport car

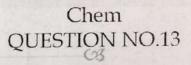
- A. disc
- B. wire
- C. magnesium alloy
- D. Al alloy

EXTRA SME QUESTION NO 12

R Which suspension type is famous in passenger cars

- A. Leaf spring
- B. Air suspension
- C. Mac pherson
- D. All of above





CR Bomb calorimeter is used to determine____

A. GCV at constant pressure
B. GCV at constant volume
C. NCV at constant presure
D. NCV at constant volume



Chem QUESTION NO.14

CR Which of the following has property of absorbing water______

A. KOH solution
B. BaCl₂
G. Anhydrous CaCl₂
D. Sulphuric acid

EXTRA Chem QUESTION NO.15

™ CNG is used for_

A. Power generation

- B. Electric generators
- C. Solvent
- D. Universal solvent

EXTRA Chem QUESTION NO.16

CR Electrochemical corrosion takes place on

- A. Anodic area
- B. Cathodic area
- C. Near anode
- D. Near cathod

Phy QUESTION NO.17

© The concept of matter wave was suggested by_____

- A. Heisenberg
- B. de Broglie
- C. Schrodinger
- D. Laplace

A The square of the magnitude of the wave function is called______

QUESTION SIDES

- A. current density
- B. zero density
- C. volume density
- D. probability density

EXTRA Phy QUESTION NO.19

© Intrinsic semiconductor at room temperature will have, available for conduction

- A. Electrons
- **B.** Holes
- C. Both electrons and holes
- D. None of the above

EXTRA Phy QUESTION NO.20

CR That radiation and matter have properties both of particles and of waves is called what?

- A. Mixing
- **B.** Confusion
- C. Wave-particle duality
- D. Entanglement



BXE QUESTION NO.21

 If lower voltage level represents logic 0 and higher voltage level represents logic 1, the system is called ______ logic system.

- A. positive
- B. negative
- C. neutral



ca A _____ gate represents a complement function.

- A. NOT
- B. NOR
- C NAND

EXTRA BXE QUESTION NO.23

A 14 pin NOT gate IC has _____ NOT gates.

- A. 8 B. 6 C. 5 D. 4
- D. 4

EXTRA BXE QUESTION NO 24

ca The ______ circuits do not contain any memory elements

A. combinational

B sequential

C. none of these

PPS QUESTION NO.25

ca Which of the following refers to mathematical function?

- A. Sqrt
- B. Rhombus
- C Add
- D. None of these



PPS

QUESTION NO 26

What will be the output of the 6-liewing P. Some code?

- 1 >>>strl="helloworld"
- 2. >>>str1[::-1]
- A. Dlrowolleh
- B. Hello
- C. World D. helloworld
- D. nenoworia

Extra PPS QUESTION NO.27

ret Which of the following is the use of function in python?

- A. Functions are reusable pieces of programs
- B. Functions don't provide better modularity for your application
- C. you can't also create your own functions
- D. All of the mentioned

EXTRA PPS QUESTION NO.28

R What are the two main types of functions?

A. Custom function

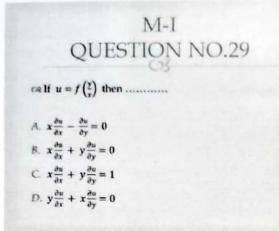
- B. Built-in function & User defined function
- C. User function
- D. System function

ROUND 3

SCHOLARS ROUND

03





SME QUESTION NO.31

R Which of these is not a part of transmission system

- A. clutch
- B. axles
- C. wheels
- D. gear box

EXTRA M-I QUESTION NO.30

call f(x, y) = 0 then $\frac{dy}{dx}$ is equal to

A
$$\left(\frac{\partial f}{\partial x}\right)$$
 B $\left(\frac{\partial f}{\partial y}\right)$ C $-\left(\frac{\partial f}{\partial y}\right)$ D $-\left(\frac{\partial f}{\partial x}\right)$
 $\left(\frac{\partial f}{\partial y}\right)$ D $\left(\frac{\partial f}{\partial x}\right)$

EXTRA SME QUESTION NO.32

(A In a diesel cycle engine combustion occurs at constant

- A. Pressure
- B. Volume
- C. temperature
- D. heat

EM QUESTION NO.33

© Which of the following is correct for the stability of equilibrium configuration?

- A. The application of the conditions of the equilibrium of the body is valid only in the 2D
- B. The application of the conditions of the equilibrium of the body is valid only in the 3D
- C. The application of the conditions of the equilibrium of the body is valid only in the 1D
- D. The application of the conditions of the equilibrium of the body is valid throughout

EXTRA EM QUESTION NO.34

If a truss consists of 8 joints, 10 members and 4 reaction components then, it is a

- A. cantilever truss
- B. defficient truss
 - C. redundant truss
 - D. none of the above



PPS QUESTION NO.35

Constraints when the strings?

- A. + B. -
- C. *
- D. All of the mentioned

EXTRA PPS QUESTION NO.36

rea What will be the output of the following Pythese code?

- def cube(x):
 return x * x * x
- 3. x = cube(3)
- 4. print x
- A. 9
- B. 3
- C. 27 D. 30

Chem QUESTION NO.37

↔ The enzyme which converts glucose, fructose into ethyl alcohol------

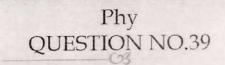
A. Invertase

- B. Zymase
- C. Lypase
- D. Pepsin

EXTRA Chem OUESTION NO.38

CA Chemical formula of rust is_

A. Fe₂O₁
B. FeO
C. Fe₃O₄
D. Fe₂O₃.X H₂O

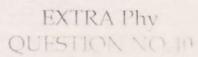


GR The operator V is called _____ operator

A. vector

- B. Hamiltonian
- C. Laplacian
- D. Poisson





GR The function representing matter waves must be

- A. complex
- B. real
- C. Zero D. infinity

BXE QUESTION NO.41

ca When all the inputs of a NAND gate are zero, the output of it is_

- A. High
- B. Low
- C. None

EXTRA BXE **QUESTION NO.42**

A NOT gate has

- A. two inputs and one output
- B. one input and one output
- C. one input and two output

D. none of above

PPS **QUESTION NO.43**

A Where is function defined?

A. Module

- B. Class
- C. Another function
- D. All of the mentioned

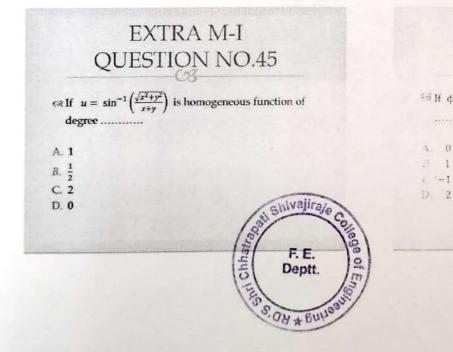
EXTRA PPS **QUESTION NO.44**

ca What will be the output of the following Python code?

- 1. >>> str1 = 'hello'
- 2. >>> str2 = ' 3. >>> str3 = 'world'
- 4. >>> str1[-1:]
 -) Olleh Hollo H

11 0

0 1.



EXTRA M-I **QUESTION NO.46**

 ${}^{\frac{1}{2}\frac{3}{2}}$ If $\phi(x, y, z) = 0$ then $\left(\frac{\partial z}{\partial x}\right) \left(\frac{\partial z}{\partial y}\right) \left(\frac{\partial y}{\partial y}\right)$ is equal to

EXTRA M-I QUESTION NO.47

© With usual notations, the saddle Point present in function of two variable is

- A. $rt s^2 = 0$ B. $rt - s^2 > 0$ C. $rt - s^2 < 0$
- $C. rt s^{2} <$
- D. None

EXTRA SME QUESTION NO.48

CR What was the initial price tag of TATA Nano

- A. Rs. 500000
- B. Rs.300000
- C. Rs.150000
- D. Rs.100000

EXTRA SME QUESTION NO.49

Actual power delivered by the engine is known as

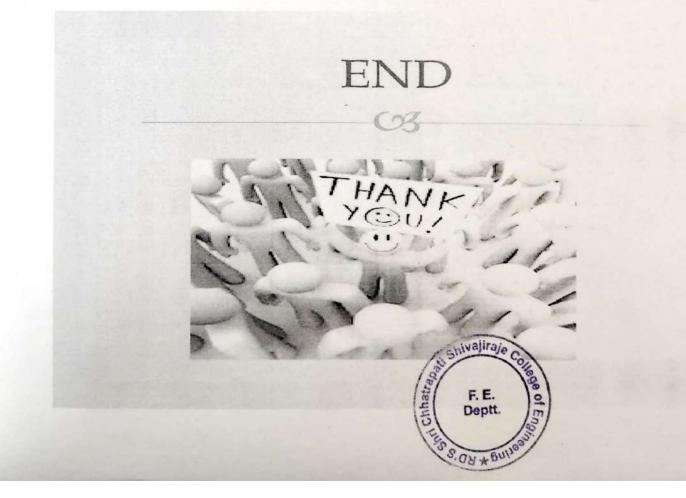
A. Shaft power

- B. Indicated power
- C. Brake horse power
- D. None of the above

EXTRA SME QUESTION NO.50

CR Engine pistons are generally made of Al alloy because _____

- A. It is lighter
- B. It is stronger
- C. It has less wear
- D. It absorbs shock





Rajgad Dnyanpeeth's

Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal- Bhor, Dist- Pune (Maharashtra)

Quiz Competition Answer Sheet Department : First Year Engineering Academic Year: 2022-23

Que. No	Subject	Answer
	Round-	
1	M-I	D
2	M-I	С
3	M-I	В
4	M-I	С
5	Extra M-I	А
6	Extra M-I	В
7	SME	Α
8	SME	В
9	SME	С
10	SME	D
11	Extra SME	С
12	Extra SME	С
	Round-I	
13	Chem	В
14	Chem	С
15	Extra Chem	А
16	Extra Chem	D
17	Phy	В
18	Phy	D
19	Extra Phy	С
20	Extra Phy	С
21	BXE	Α
22	BXE	Α
23	Extra BXE	В
24	Extra BXE	А
25	PPS	А

Que. No	Subject	Answer
26	PPS	с
27	Extra PPS	А
28	Extra PPS	В
	Round-I	İ
29	M-I	В
30	Extra M-I	D
31	SME	С
32	Extra SME	Α
33	EM	D
34	Extra EM	В
35	PPS	С
36	Extra PPS	С
37	Chem	В
38	Extra Chem	D
39	Phy	С
40	Extra Phy	А
41	BXE	А
42	Extra BXE	В
43	PPS	D
44	Extra PPS	D
45	Extra M-I	D
46	Extra M-I	С
47	Extra M-I	С
48	Extra SME	D
49	Extra SME	С
50	Extra SME	A

F.E. Deptt. Deptt. Deptt.

Rajgad Dnyanpeeth's

Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal- Bhor, Dist- Pune (Maharashtra)

Date: 31/01/2023

Department : First Year Engineering ATTENDANCE DURING QUIZ COMPITITION (Div-A, B & C)

Sr. No.	i and of Student	Sign	
1	Shinde Sanika Ravindra	Shinde	
2	Nidhan Brijesh Mishra	NUMPA	
3	Kadelear Liham Innuskhan	Kadekor.	
4	Pardeshi Harsh Sountosh	Pordeshi.	
5	kharat Sonali Baban	thread .	
6	Katkar shivani sudam.	Skatkar.	
7	Mandhare Divya Sitaram	QSm	
8	chandonshiv Priyonko Bantash	Bhunderhie	
9	Bhosale Vaispnavi Vijay	Shosale.	
10	Selekar swapnil shivaii		
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13	Sarode Nampata Bhimmai	0.081	
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15	Thopate Shweta Ramesh. presad	Futuju '	
16	Shinde Siddhi Ramachandra.	Reinde	
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18	Mandhare Nisha Rohidas	Aproanchase	
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20	Patil Kalyani Pramod	Kleti-	
21	Bagal Mayuri Captash	Abagal .	
22	(Bhasale Vaisbravi Vijay		
23	Shinde Pournima Pandurang	Pshindle	
24	Jagtap Sanika Santosh O	RIATOR	
25	Ravaleky Tanvi Shamrao	Fatrolla	
26	Bhandalkar Pragiti Krushna	Radati	
	Petkar Pooja Suresh	Jula.	
28	Nimbalkar Shivani Rajendra	Dimbalkap	
29	Sonawane Prajakta shivaji	Anna	
30	Ubale Anagha Yogesh	Ryllale	
31	Horgal Shruhika Abrakh,	5. 1. 10 002	-
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Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal- Bhor, Dist- Pune (Maharashtra)

Date: 31/01/2023

Department : First Year Engineering ATTENDANCE DURING QUIZ COMPITITION (Div-A, B & C)

Sr. No.	Name of Student	Sign
1	Harshada Kubir Tarange	tronge
2	Payal sanjay more	
3	Swamini Maruti Bhor	Payer.
4	Asmita Rajendra Bandal	Abanal
5	Sande Nameta Bhimrej	CNBL
6	Shelke Sakchi vilas	SiVshellie_
7	Aditya Santosh Mangade	difte
8	Pratik Himmat Jadhav	Pula
9	AKSHAY Ramkisan Ghule	AKSHAY .
10	Harshvardhan Nemichand Mahajan	400
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13	Harthe Mouur Trannakh	Any
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15	Shoeyash Uddhav Lawade	Mougart
16	CHOUDHART PRATHAMESY SANTOSH	A start
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18	Pujari Vishal Vilar	lujom'
19	Junghave Hemant Shankor	Xile_
20	Galande Rohit Nornoth	Fut
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22	Virkar Vivela Vinayala	Theken
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Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal- Bhor, Dist- Pune (Maharashtra)

	Que. No	Subject	Ma	urksheet for quiz compe	tition
			А	В	С
	1	M-I	-	-	10
pu	2	M-I	16	-	-
Sou	3	M-I		-	10.
Buzzer Round	4	M-I	v	10	-
ZZ	5	SME	-		10
B	6	SME	10	-	-
	7	SME	-	10	-
	8	SME	· · · · ·	-	10
su	9	Chem	10	-	-
Compulsory Questions	10	Chem	10		
ne	11	Phy	-	10	
y C	12	Phy	-	-	10
sor	13	BXE	10	-	-
Ind	14	BXE	-	10	-
mo	15	EM	-	-	10
0	16	PPS	-	10	_
	21	M-I	10		_
	22	SME	10		
T I	23	EM	-	10	-
Ino	24	PPS		-	10
sR	25	Chem	-	10	-
lar	26	Phy	-	-	10
Scholars Round	27	BXE	10	-	_
S	28	PPS		-	10
	29	Other			
	30	Other			
	Total	Score	80	70	OE





Rajgad Dnyanpeeth's

Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal- Bhor, Dist- Pune (Maharashtra)

Quiz Competition Department : First Year Engineering Academic Year: 2022-23

Sr. No.	Result of Event	Div	Remark / Sign
1	Winner	Div-c	æ
2	Runner Up	Div-A	æ.

Prof. B. P. Tapare Event Co-ordinator

Prof. J. G. Kale

HOD (FE) Head of Department First Year Engineering Shri Chh. Shivajiraje College of Engg, Dhangawadi, Pune-412206



Rajgad Dnyanpeeth's

Shri Chhatrapati Shivajiraje College of Engineering

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal- Bhor, Dist- Pune.

Department : First Year Engineering

REPORT OF QUIZ COMPETITION 2021-22 (Sem-I)

Date: - 31/01/2023

- 1. Department: First Year Engineering
- 2. Day & Date: Thursday, 31st Jan 2023
- 3. Event Coordinator: Prof. J. G. Kale
- 4. Departmental Event Coordinator: Prof. B. P. Tapare
- 5. Designation: Asst. Professor
- 6. Subject: All Subjects.
- 7. Class: First Year (Div A, B & C).
- 8. Purpose: Encourages team work

Objective:

The Main objective of the Quiz competition was to improve knowledge base of student and to know our guesswork and ability to crack questions through hints improves. With practicing quizzes, students can do critical thinking, and get into a habit of innovative learning. This will help students to perform and enables students to think from different angles or simply 'to think out of the box.

Description:

The "Quiz Competation-2022-23 (SEM-I)" was opened by Head of Department Prof. J. G. Kale in presence of faculty members and students. Total 3 rounds were conducted in Quiz Competition. 3 Rounds were held which included technical questions related to their subjects. There were four members in the jury committee. The final evaluation process was completed by jury members. Prof. R. B. Raut announced the winner of competition which is Div-C (FE).

Conclusion:

This competition has provided a platform to the budding engineers to showcase their knowledge and smart ideas to compete in Quiz competition. Improvement in student's confidence to face questions is seen during the quiz.



The following photographs show the sweet memories of this event.

Event Photos:

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Prof. B. P. Tapare Coordinator Prof. J. G. Kale HOD (F.E.) Head of Department

First Year Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

Prof. Dr. S. B. Patil Principal

Principal Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engg., Dhangawadi, Pune-412 205

Scanned with CamScanner

12.Seminar/Workshop

Rajgad Dnyanpeeth's



SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

List of workshop/ Seminar

S.No	Subject	Date	Number of Participant
	Departn	nent of Computer Engi	neering
1	Seminar on 'Deep Learning'	07/02/2023	45
	Department of	electronics and Teleco	ommunication
2	Workshop on 'Arduino Interfacing and Programming'	05/12/2022 to 07/12/2022	77



Department of Computer Engineering

Date- 3/2/2023

NOTICE

All B.E students are hereby informed that Computer Department has organized a Seminar

on "Deep Learning" on 07th of February 2023 at 12:00 pm to 2:00 pm.

Note:

- 1. Seminar will be offline
- 2. Attendance is mandatory to all
- 3. Seminar will start and end as per schedule time.

PMARNE

Prof. P. M. Marne

Coordinator



BPI-

Prof. B. D. Thorat

Head of Department Dept. Computer Engineering Shri Chh. Shivajiraje College of Engg Dhangawadi, Pune-412206



INVITATION LETTER

Date- 3/2/2023

To

Mr. Bapu Arkas

Founder, ProAzure

Subject: Invitation for conducting Seminar on "Deep Learning" Respected sir,

This gives Department of Computer Department of SCSCOE, great pleasure to request you to conduct Seminar on "Deep Learning" for B. E students of SCSCOE in RDTC-SCSCOE, Dhangawadi.

We will be thankful to you if you can schedule on 07th of February 2023.

Waiting for your positive reply.



BR

Prof. B. D. Thorat (had off) epartment Dept. Computer Engineering Shri Chh. Shivajiraje College of Engg Dhangawadi, Pune-412206



PERMISSIOM LETTER

Date- 3/2/2023

The Principal	3
RD's SCSCC	рЕ,
Dhangawadi,	Bhor.

To

Subject: Regarding permission of Seminar on Deep Learning & Sanctioning of remuneration. Respected sir,

Computer Dept. is going to conduct Seminar on "Deep Learning" for B. E students.

Mr. Bapu Arkas has been invited as a speaker for the lecture of Computer engineering student. The lecture will be held in his presence. He will deliver the lecture on following day and date

Sr. No.	Day	Date	Subject	Class
1.	Tuesday	07-02-2023	Seminar on Deep Learning	B. E.(Computer)

Kindly Sanction the remuneration of total amount Rs. 2000/-

Thanking you.

PMARNE

Prof. P. M. Marne

Coordinator



BH-

Prof B. D. Thorat

Head of Department Dept. Computer Engineering Shri Chh. Shivajiraje College of Engg Dhangawadi, Pune-412206

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CONDUCTION LETTER

Date-7/2/2023

To

Mr. Bapu Arkas

Founder, ProAzure,

Pune

We express our immense gratitude for having you at our college to conduct a fabulous Seminar on **"Deep Learning"**. It was our pleasure for having a person like you at our institute. We take this opportunity to tell you this with pride that our student thoroughly enjoyed your entire sessions. We would like to know if you ever need our support.

Thank You so much.



Recieved

Brd-

Prof. B. D. Thorat Head of Department Dept. Computer Engineering Shri Chh. Shivajiraje College of Engg Dhangawadi, Pune-412206



Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal-Bhor, Dist-Pune (Maharashtra)

REPORT OF SEMINAR ON DEEP LEARNING

TOPIC "SEMINAR ON DEEP LEARNING"

<u>DAY/DATE</u> : 07/02/2023, Friday

DURATION OF EVENT : 12:00 pm to 2:00 pm

OBJECTIVE

- 1. Provide student a conceptual overview of Deep Learning
- 2. Understand and use essential technique of Deep Learning

SUMMARY

The Seminar has started with Bapu Arkas briefing the students about Deep Learning and then provided the students with some free sources and sites from which they can get more information about the topic and probably can make something good out of it. Prof B. D. Thorat(Head of Department) welcome the Guest Mr. Bapu Arkas.

The lecture covered the basic techniques that help students to build and apply prediction function with an emphasis on practical applications.

The course outcome of the Seminar:

- 1. Familiarize the functional/operational aspects of Machine Learning Algorithms.
- 2. Understand emerging abstract models for Deep Learning.

Many important key terms were also introduced for a better understanding like Supervised Learning, Unsupervised Learning, Clustering, Data Extraction, Various Machine Learning Algorithms. To make the students understand better, the presentation barely had any technical terms and was explained well with many examples. The session was very interactive and multiple questions were presented giving everyone a chance to think including the speaker.

* aund



PMARNE

Prof. P. M. Marne Co-ordinator



(BD-

Prof. B. D. Thorat Head of Department Dept. Computer Engineering Shri Chin. Shivajiraj, College of Engg Dhangawadi, Pune-412206



Seminar on "Deep Learning".

Student Feedback Form

Students are required to rate the course on the following attributes using the 4 -point scale shown.

Course: |tick (✓) in the relevant cell]

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
c	Overall rating of the course content Course objectives were clear		V		
	Clarity and relevance of textual reading material		~		
4	The teacher was effective in communicating the content of the course	\checkmark			
	The teacher responded to questions in an informative, appropriate and satisfactory manner.				
1	Do you have any suggestions for future workshops that you would like us to organize?		NO		
7.	Would you recommend this course to other students?	yes			
Any	Other Comments-	and the second s	cling to cling the second seco		

Thank you for participating, we appreciate your feedback!!!!!!!!

	Rajgad Dnyanpe HRI CHHATRAPATI SHIVAJIRAJE C S. No. 237, Satara-Pime, NH-4, Dhamsa DEPARTMENT OF COMPUTE	OLLEGE OF ENGINEER wadi, Tal: Bhor, Dist. Punc	RING
	Academic Year : 20.		
Topic Deep	Learning		Date 22/2012
Sr. No.	Name of the Student	Sign	
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Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune

A Three day hands on Workshop On

"Arduino Programming & Interfacing"

(05th, 06th & 07th December 2022)

Organized By

Department of Electronics and Telecom. Engineering In association with (Institute's Innovation Cell)



Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering, Dhangwadi Department of Electronics and Telecommunication Engineering Institute Innovation Cell

NOTICE

18/09/2022

This is to inform all students of second year E & TC and Mechanical engineering that the Institute's Innovation Cell & Department of E & TC Engineering jointly organizing a three day workshop on Arduino Programming & Interfacing. This workshop is useful to improve your technical skill.

For registration & detail information contact Prof.Sandeep R. Nalage E&TC Department.

Date: 05-07 December 2022

Venue: Department of E &TC Engineering

Time: 11.00am to 3.00pm

Prof.S.R.Nalage

IIC, Vice President



Prof.T.M.Dudhane

HoD E & TC Engg



College of Engineering, Pune Shri Chhatrapati Shivajiraje Rajgad Dyanpeeth's





Institution's Innovation Cell

A Three day Hands on Workshop on Arduino Programming & Interfacing Department of Electronics & Telecommunication Engineering Jointly organizing

from 11.30AM to 03.00PM

(Computer Lab E&TC

Venue:

Date: 5, 6 & 7th Dec.2022

Resource Person Prof.S.R.Nalage Dr.S.I.Nipanikar Coordinator 1000 10000 10000 10000 10000 11111 12 Prof.S.D.Pasalkar Co-Coordinator

Principal

Head of E & TC Dept.

Prof.T.M.Dudhane.

Dr.S.B.Patil

For S.E.(MECH & ENTC)

Department)

Rajgad Dnyanpeeth's

Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi Tal- Bhor, Dist-Pune

Department of Electronics & Telecommunication Engineering

Organizing

"A Three Day Hands on Workshop on Arduino Programming & Interfacing"

Course Objectives

- · The structure of an Arduino Uno board and how to use it
- The basic terms and components of electrical engineering as background knowledge
- What is the Arduino IDE, what is it used for and how is it structured?
- Programming basics: block-based programming
- Programming basics: text-based programming
- How to create a system with an Arduino and how to write the required program code
- Hands-on learning based on exciting DIY projects
- temperature-based LED control, light-dependent control of a motor, gas detection alarm, password-protected system, remote-controlled system

Course Outcomes

- Students will be able to write program on their own
- Students will be able to select components while designing an embedded system
- Students will able to design a professional embedded system
- Students will be able to install and update required library in Arduino IDE
- Students Will be able to design a prototype

Program Schedule & Syllabus

Date Contents		Practical	Time	
	Inauguration Function		11.30-12.00	
	Introduction to Arduino UNO Pin diagram Processor Peripheral devices Importance Applications Why to use		12.00- 12.30	
	Installing Arduino IDE on computer	· Small Daniel and	12.30-1.00	
05/12/2022	Basic Structure of Arduino Programming	Anna Parkine . Incl		
	Difference between analog and digital signals	 Turning LED on/off Connecting Potentiometer to analog 		
	How to read status of pin	 pin Controlling Brightness of LED according to 	2.00 -3.00	
	How to send signal to pin	 value received on analog pin Reading status of switch 		
	How to read analog value	and taking action as per requirement		
	How to send analog value			
	Interfacing Temperature sensor with Arduino	Interfacing LM35 Sensor with arduino and Display its value on serial monitor	11.30-12.00	
	Interfacing DHT11 With Arduino UNO (Downloading DHT11 Library)	Interfacing DHT11With Arduino UNO and display Temp. & Humidity on serial monitor	12.00-12.30	
06/12/2022	Using Map function Interfacing Ultrasonic sensor with Arduino	Interfacing Ultrasonic sensor with arduino and display distance on serial monitor	12.30-1.00	

	Interfacing MQ-6 Sensor	Interfacing MQ-6 Sensor		
	Interfacing PIR Sensor	Interfacing PIR Sensor	2.00-4.00	
	Interfacing IR Sensor	Interfacing IR Sensor		
	Interfacing Rain Drop Sensor			
07/12/2022	Interfacing 16X2 LCD with arduino and its commands	 Display" Hello" on LCD Display Temp on LCD using DHT11 Display Distance on LCD using HC SR 05 	11.30-1.00	
	Interfacing Relay with arduino Interfacing Motor with arduino Interfacing Buzzer with Arduino	 Water Level indicator and controller Automatic Water Dispenser Smoke Detector and Alarm Reverse Parking Horn/Indicator Automatic porch Light Automatic Wiper using rain drop sensor 	2.00-4.00	

Event Report: A Three-Day Hands-On Workshop on Arduino Programming & Interfacing

Date: December 5-7, 2022

Venue: RD's SCSCOE, Dhangwadi

Organized by: Department of Electronics & Telecommunication Engineering and Institution's Innovation Cell

Resource Person: Prof. Sandeep R. Nalage

Coordinators: Dr. S. I. Nipanikar and Prof. S. D. Pasalkar

Introduction:

A three-day hands-on workshop on Arduino programming and interfacing was held at RD's SCSCOE, Dhangwadi, from October 6th to October 8th, 2022. The workshop was organized jointly by the Department of Electronics & Telecommunication Engineering and the Institution's Innovation Cell. With Prof. Sandeep R. Nalage as the resource person, this event aimed to enhance the practical skills and knowledge of second-year engineering students in the E&TC and Mechanical Engineering departments.

Participants:

The workshop witnessed enthusiastic participation from a total of 100 students from both the E&TC and Mechanical Engineering departments of RD's SCSCOE, Dhangwadi.

Workshop Highlights:

The workshop spanned three days and was designed to be highly practical-oriented, providing students with hands-on experience in Arduino programming and interfacing. Prof. Sandeep R. Nalage, an expert in the field, led the sessions with great expertise and enthusiasm. Participants were exposed to various aspects of Arduino, from basic programming to advanced interfacing techniques.

Feedback:

Feedback from the participants was overwhelmingly positive. Students appreciated the practical approach of the workshop, stating that it greatly enhanced their understanding of Arduino programming and interfacing. Prof. Sandeep R. Nalage's practical skills and teaching methodology were highly admired by the participants.



Photographs:





Acknowledgments:

The success of this workshop would not have been possible without the dedication and hard work of our coordinators, Dr. S. I. Nipanikar and Prof. S. D. Pasalkar, who ensured that all logistical aspects were well-organized.

On the third day of the workshop, Dr. T. M. Dudhane, Head of the Department of Electronics & Telecommunication Engineering, expressed his gratitude to all participants, resource persons, and coordinators. He also emphasized the importance of such practical workshops in enhancing the skillset of engineering students.

We would like to extend our heartfelt thanks to Dr. S. B. Patil, the Principal of RD's SCSCOE, for his continuous encouragement and support in organizing such events.

Conclusion:

The three-day hands-on workshop on Arduino programming and interfacing was a resounding success, providing valuable practical knowledge to the participating students. It served as a testament to the commitment of RD's SCSCOE to provide quality education and practical exposure to its students. The event concluded with a sense of achievement and a commitment to organizing more such workshops in the future.

Prof S.D.Pasalkar. Member- IIC Prof. S.R. Nalage. Vice President IIC.

Prof. T.M.Dudhane

HoD, E&TC Department. Raj Principaleeth's Shri Chhatrapati Shivajiraje College (Dhangawadi, Pune-412 205

Prof. Dr. S.B.Patil Principal t. Raj**Principal**eeth's Shri Chhatrapati Shivajiraje College of Engg.,



Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Insitution's Innovation Cell & Department of E & TC Engineering jointly organizing A Three Day Hands on Workshop on Arduino Programming & Interfacing on 05,06, & 07th Dec.2022

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Attendandce of Participants

Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering Insitution's Innovation Cell & Department of E & TC Engineering jointly organizing A Three Day Hands on Workshop on Arduino Programming & Interfacing on 05,06, & 07th Dec.2022

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Attendandce of Participants

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12/21/2023

Interfacing 16X2 LCD with Arduino Functions used to interface LCD

Harris Theready and the

- Unclaim uses la enterface LLD
 UnpidCrystal object, name/r.tm.em.db.dt.dt2.dt3.dt4.dt3.dt6.dt7)
 LiquidCrystal object, name/r.tm.em.db.dt5.dt6.dt7)
 This function defines an object named object.name do the class LiquidCrystal.
 rs, rw and en are the pin numbers of the Arduino board that are connected to
 rs, rw and en of LCD.
- rs, rw and en of LCO. d0, d1, d2, d3, d4, d5, d6 and d7 are the pin numbers of the Arduino board that are connected to data pins D1, D2, D3, D4, D5, D5 and D7 of LCO. Example, LiquidCrystal Iod(13, 12, 11, 10, 9, 6, 7, 6, 5, 4, 3). This makes use of LCD in 8-bit mode.
- Example, LiquidCrystal Icd(13, 12, 11, 6, 5, 4, 3). This makes use of LCD in 4-bit mode.

- Interfacing 16X2 LCD with Arduno

 ketappicolumn

 The Avertion is used to define the number of rows and columns the LCD has and to
 installate the LCD. Netaline the LCD. Needs to be called before calling other functions, once the object is defined using the function in point 1. Dampin, for 16 of 20 LCD we write Achtegin(16,2). Acris the name of the object of the dass LippidCrystal. 16 is the number of columns and 2 is the number of rows.
- Lates torpand years to a the failure of the LCD to a location specified by the row and This function postions the cursor of the LCD to a location specified by the row and culture parameters.
- column paramitters. col is the column number at which the cursor should be at (0 for column 1, 4 for column 5 and so on). row is the row number at which the cursor should be at (0 for row 1, 1 for row 2). Dample, for testing the cursor at the 5th column in the Dample, for testing the cursor at the 5th column in the Znd row, ArbeitCursor(4,1). Artis the name of the object of the class LiquidCrystal.

Interfacing Ultrasonic Sensor with

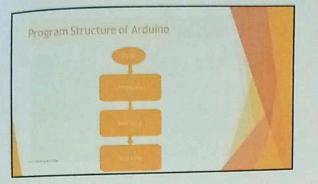
Interfacing 16X2 LCD with Arduino Produce «LipskOvplath» If initialize the totally with the numbers of the transace pins LipskOvplat legit, 1, 8, 10, 11; // REGISTER SELECT PINENADLE PIND4 PIND5 PIN D5 PIN D5 PIN vol retrol)

// set up the LCD's number of columns and rows: Ind begin(16, 2)

id loopi)

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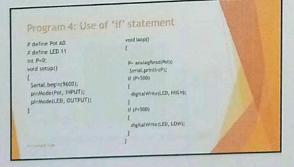
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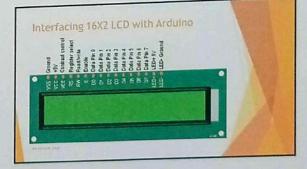


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Program 2: Analog read	
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Program 3: Cont	trolling Bright	Tess of LLD	the last
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# define LED 11			
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analogWrite (LED, P);			



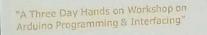


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12/21/2023



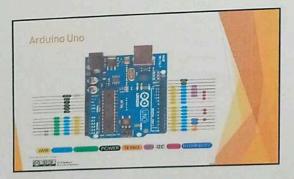
"A Three Day Hands on Workshop on Arduino Programming & Interfacing" Course Objectives The structure of an Arduino Uno board and how to use it The basic terms and components of electrical engineering as background knowledge What is the Arduino IDE what is it used for and here is it structured? Programming basics block-based programming Programming basics test-based programming How to create a system with an Arduno and how to write the required program code Hands-on learning based on exciting DIV projects

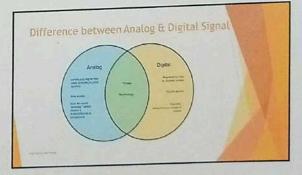


Course Outcomes

- Students will be able to select components while designing an embedded system
- Students will able to design a professional embedded system Students will be able to install and update required library in Arduino IDE
- Students Will be able to design a prototype







1



S.No. 237 Satara-Pune, NH-4, Dhangwadi, Tal-Bhor, Dist-Pune, 412206 (MS), India Shri Chhatrapati Shivajiraje College of Engineering, Dhangwadi Rajgad Dnyanpeeth's

Certificate of Participation

This is to certify that KHALADKAR DEEPAK SAMPAT has

Interfacing" on 05th, 06th, & 07th December 2022 Organized by Department of Electronics & TelecommunicationEngineering, Shri Chhatrapati Shivajiraje College of Engineering, successfully attended, Three Days Hands on Workshop on "Arduino Programming & Dhangawadi, Pune.

Prof.S.D.Pasalfiar Asst.Coordinator

Prof.Dr.S.I.Nipanifiar + tempay

Dr.S.I.Nipanifiar Coordinator

Prof.S.R.Nalage Resource Person



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13. Guest lectures

Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

List of Guest Lecture

S.No	Subject	Name of Expert	Date	Number of Participant
		Department of	Civil Engineering	
1	Guest Lecture on 'Introduction of Auto Cad Software'	Mr. Alok Sasane	14/10/2022	50
		Department of Co	mputer Engineering	
2	Guest Lecture on 'Carrier Guidance'	Mr. Abhishik Wakodkar	21/03/2023	113



Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune

Guest Lecture On

"Introduction of Auto Cad Software"

(14th October 2022)

Organized By

Department of Civil Engineering

Savitribai Phule Pune University Pune, India



Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune

Date- 10/10/2022

NOTICE

All the students of SE & TE Civil are hereby informed that, the Department is going to organized

"Guest Lecture on "Introduction to Auto CAD Software" dated on 14th October 2022 at 11:00 am

To 01:30 pm in civil department digital classroom. Attendance is compulsory to all

Prof. S. S. Jadhav Coordinator

Prof. S. P. Salunkhe.

Head poperatment Dept. of Civil Engineering Shri Chh. Shivajiraje College of Engg Dhangawadi, Pune-412206





Rajgad Dnyanpeeth's

Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra and Affiliated to Savitribai Phule Pune University, Pune (1D. PU/PN/Engg./376/2009), DTE CODE: EN6324, AISHE CODE : C-41588



Anantrao ThopteSangram ThopteDr. Bhagyashri PatilDr. S. B. PatilFounder President, Ex. Edu. MinisterMLA, Executive PresidentHon. SecretaryPrincipal

Date: 10/10/2022

INVITATION LETTER

To, Mr. Alok Sasane Manager CAD Centre Pvt. Ltd. Pune.

Subject: Invitation for conducting Guest Lecture on "Introduction to Auto Cad Software "on

14th October 2022 Friday

Dear Sir,

Our department of Civil Engineering is going to organise Guest Lecture on "Introduction to Auto Cad Software "on 14" October 2022 Friday for students of in and outside the Institute

Considering your expertise and experience in the same field, it gives us immense pleasure to invite you as a guest speaker for above said Guest lecture.

Kindly, accept the invitation and acknowledge the same.

Thanking You.

Prof. S. S. Jadhav

Coordinator

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0/10/2

Prof. S. P. Salunkhe

Head, Department of Civil Engineering

Prof. Dr. S. B.

Principal RD's SCSCOF Punc



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RajgadDnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal - Bhor, Dist- Pune (MH)

Date: 15/10/2022

DEPARTMENT OF CIVIL ENGNEERINGG

Report on "Introduction to Auto Cad Software"

- 1. Program type: Guest Lecture
- 2. Event Name: "Introduction to Auto Cad Software"
- 3. Attendees: Students from Civil Engineering department in the institute.
- 4. Name and Designation of Resource Person : Mr. Alok Sasane (Manager)
- 5. Company / Institute of Resource Person: CAD Centre Pvt.Ltd. Pune.
- 6. Event coordinator: Prof. S.S. Jadhav
- 7. Day & Date of Execution: Friday 14th October 2022
- 8. Time: 11 am to 01.30 pm
- 9. Duration of Event: One day
- 10. Venue of event : Civil Department Digital Classroom
- 11. Number of Participants: 50
- 12. Fee details: Free
- 13. Objectives: The main objective of the program was to guide students about the Auto CAD software. Also guided about How to implement Auto CAD software knowledge in civil engineering field.
- 14. Outcomes: Building planning in accordance with Auto CAD software

15. Description (program conduction details) / speaker topic explanation:

Rajgad Dnyanpeeth's Shri Chhatrapati College of Engineering Civil Department Dhangwadi, Pune has conducted a guest lecture on "Introduction to Auto Cad Software" on 14th October 2022 for SE and TE students of Civil Engineering to give information about "Introduction to Auto Cad Software" The ultimate objective of the study is to AutoCAD is a program extensively used by civil engineers and other professionals all over the world. It allows a designer to analyse, design and plan easily and efficiently. If you are a professional in this field or aspire to become a civil engineer. AutoCAD software is adaptable and flexible to use in a variety of sectors. The software is easily available and you can take a monthly or lifetime subscription. Because of wide availability and ease of use, AutoCAD is one of the most





RajgadDnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (MH)

commonly used software for professionals in the fields of architecture, construction and manufacturing.

16. **Conclusion:** The Guest lecture on "Introduction to Auto Cad Software" explained it is a very user-friendly software program that allows individuals with a basic understanding of drafting to work on it. It is also an effective way to design a product, building or machine. There are multiple tools which allow you to view your drawing from different perspectives and in a variety of styles. All these can be useful while working on complex drawings with a large number of components. And also Auto Cad Software increases professional opportunities for students.

Photos with caption



Mr. Alok Sasane Sir guiding to students



SUDE (ACAD/AF=09 Rec.0)



RajgadDnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (MH)









Mr. Alok Sasane Sir guiding to students

Prof.S.S. Jadhav

Co-ordinator





Prof. S. P. Salunkhe

Head of Department Dept. of Civil Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206

Dr. S. B. Patil

Principaipal Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engg., Dhangawadi, Pune-412 205



RajgadDnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING S. No. 237. Satara Pune, NUL 4. Discound in Tab. Disc. Disc. Disc.

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune

Date:- 14/10/2022

Department of Civil Engineering

Guest Lecture on "Introduction to Auto Cad Software

Attendance Sheet

Sr. No.	Name of Students	Class	Sign
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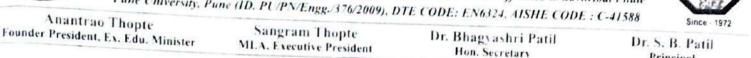




Rajgad Dnyanpeeth's

Shri Chhatrapati Shivajiraje College of Engineering

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To.

APPRECIATION LETTER

Mr. Alok Sasane . Cad Centre Pvt. Ltd.

Pune

On behalf of the Rajgad Dnyanpeeth's Shri Chhatrapati College of Engineering Dhangwadi, Pune, we wanted to express our deep gratitude to you for conduction of Guest Lecture on the topic "Introduction to Auto Cad Software" on 14th October 2022. It was really informative and useful. Definitely all the participants have benefited from your talk.

We are very much thankful to you for making it convenient to be with us.

Once again, thank you for making the webinar successful, and we expecting your continues support in future also.

Your's truly.

112022

Prof. S. P. Salunkhe Head, Department of Civil Engineering

Received



Principal

Prof. Dr. S. B. Patil

Principal **RD's SCSCOE Pune**



Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune

Guest lecture on

"Career Guidance"

(21th March 2023)

Organized By

Department of Computer Engineering

Savitribai Phule Pune University Pune, India



Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Dhangwadi, Tal-Bhor, Dist. - Pune - 412206.

Department of Computer Engineering

Date- 18/03/2023

NOTICE

All S.E & T. E students are hereby informed that Computer Department has organized a

Guest Lecture on "Carcer Guidance" on 21st of March 2023, Tuesday at 02:30 am to 5:00 pm.

Note:

- 1. Guest Lecture will be offline
- 2. Attendance is mandatory to all
- 3. Guest Lecture will start and end as per schedule time.

RAPAR

Prof. P. M. Marne (Coordinator)

BOL

Prof. B. D. Thorat (H. O. D)

Head of Department Dept. Computer Engineering Shri Chh. Shivajiraje College of Engg. Dhangawadi, Pune-412206





Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

INVITATION LETTER

Date- 18/03/2023

To

Mr. Abhishek Wakodkar,

Abhishri Academy,

(Founder & Director), Pune.

Subject: Invitation for conducting Guest Lecture on "Career Guidance"

Respected sir,

This gives Department of Computer Department of SCSCOE, great pleasure to request you to conduct Guest Lecture on "Career Guidance" for S. E. students of SCSCOE in RDTC-SCSCOE, Dhangawadi.

We will be thankful to you if you can schedule on 21st of March 2023.

Waiting for your positive reply.



Prof. B. D. Thorat (H. O. D)

Head of Department Dopt. Computer Engineering Shri Chb. Shivajiraje College of Engg Dhangawadi, Pune-412206 Rajgad Dnyanpeeth's



To.

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Dhangwadi, Tal-Bhor, Dist. - Pune - 412206.

PERMISSIOM LETTER

Date- 18/03/2023

The Principal,
RD's SCSCOE,
Dhangawadi, Bhor.

Subject: Regarding permission of Guest Lecture on "Career Guidance" & Sanctioning of remuneration.

Respected sir,

Computer Dept. is going to conduct Guest Lecture on "Career Guidance" for S. E. & T. E. students. Mr. Abhishek Wakodkar has been invited as a speaker for the lecture of Computer engineering student. The lecture will be held in his presence. He will deliver the lecture on following day and date.

Sr. No.	Day	Date	Subject	Class
1.	Tuesday	21-03-2023	Guest Lecture on Career Guidance	S. E. & T. E. (Computer)

Kindly Sanction the remuneration of total amount Rs. 2000/-

Thanking you.

Prof. P. M. Marne (Coordinator)



BUT Prof. B. D. Thorat (H. O. D)

Head of Department Dept. Computer Engineering Shri Chh. Shivajiraje College of Engg Dhangawadi, Pune-412206

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Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Dhangwadi, Tal-Bhor, Dist. – Pune – 412206.

CONDUCTION LETTER

Date-18/03/2023

To

Mr. Abhishek Wakodkar,

Abhishri Academy,

(Founder & Director), Pune.

We express our immense gratitude for having you at our college to conduct a fabulous Guest Lecture on "**Career Guidance**". It was our pleasure for having a person like you at our institute. We take this opportunity to tell you this with pride that our student thoroughly enjoyed your entire sessions. We would like to know if you ever need our support.

Thank You so much.

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BIT

Prof. B. D. Thorat (H. O. D)

Head of Department Dept. Computer Engineering Shri Chh. Shivajiraje College of Engg Dhangawadi, Pune-412206 Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (Maharashtra)

REPORT OF GUEST LECTURE ON CAREER GUIDANCE

TOPIC: "GUEST LECTURE ON CAREER GUIDANCE"

DAY/ DATE: 21st of March 2023, Tuesday.

DURATION OF EVENT: 11:00 am to 1:00 pm.

OBJECTIVE

- 1. Provide student a conceptual overview of Career Guidance.
- 2. Understand and use essential technique of Career Guidance.

SUMMARY

The guest lecture has started Mr. Abhishek Wakodkar briefing the students about "**Career Guidance**" and then provided the students with some free sources and sites from which they can get more information about the topic and probably can make something good out of it. Prof B. D. Thorat (Head of Department) welcome the Guest Mr. Abhishek Wakodkar.

The guest lecture covered the basic techniques that help students to build and apply prediction function with an emphasis on practical applications.

The course outcome of the guest lecture:

- 1. Familiarize the functional/operational aspects of Career Guidance.
- 2. Understand emerging concepts of Career Guidance.

Mr. Abhishek Wakodkar, started the talk with giving a brief statistics on the current employability status of engineering students. He highlighted the growth of VLSI and Embedded industry, which has increased demand for fresh engineers. His talk also focused on the recent industry trends in core engineering field. He listed down more than fifteen roles/designation currently being practiced in the core companies; their skill set requirement, companies name, job responsibilities etc and explained the career growth ladder. He then emphasized on the importance of right mix of knowledge, attitude and additional skills for a successful current. The talk provided the students a

platform for sharing their thoughts and was endowed with proper guidance regarding all the aspects of career in core VTSI & Embedded field.

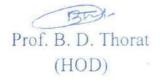






RAPANE Prof. P. M. Marne (Co-ordinator)





Head of Department Dept. Computer Engineering

Shri Chh. Shivajiraje College of Engg Dhangawadi, Pune-412206 Rajgad Dnyanpeeth's



SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Dhangwadi, Tal-Bhor, Dist. - Pune - 412206.

Guest Lecture on "Career Guidance".

Student Feedback Form

Students are required to rate the course on the following attributes using the 4 -point scale shown.

Course: [tick (\checkmark) in the relevant cell]

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
1.	Overall rating of the course content				
2.	Course objectives were clear	L			
3.	Clarity and relevance of textual reading material	V			
4.	The teacher was effective in communicating the content of the course	V			
5.	The teacher responded to questions in an informative, appropriate and satisfactory manner.		V		
6.	Do you have any suggestions for future workshops that you would like us to organize?	ho			
7.	Would you recommend this course to other students?	yes			
Any	Other Comments-				
			A Shiam	Be College of English	
			1 Second		8

Thank you for participating, we appreciate your feedback!!!!!!!!



Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING S. No. 237, Satara-Pune, NII-4, Dhangawadi, Tal: Bhor, Dist: Pune

DEPARTMENT OF COMPUTER ENGINEERING

Academic Year: 2022-23

Class: SE

S. No	Roll No.	Student Name	Sign
X	SCO21F001	Adsul Swarup Sunil	Hursenf
2	SCO21F002	Bansode Niranjan Shrikrishna	771-
3	SCO21F003	Belhekar Mahesh Sunil	
4	SCO21F004	Beloshe Athary Ramesh	
5	SCO21F005	Bhagat Dikshant Ravindra	
-6	SCO21F006	Bhilare Pooja Kisan	Hosta
X	SCO21F007	Bhoite Sanket Sanjay	Stahoide
8	SCO21F008	Bhosale Shreya Sanjay	Refueld
9	SCO21F009	Birdawade Rohit Sandip	Dopit 3B
10	SCO21F010	Bire Akash Sachin	
11	SCO21F011	Budgude Shravanee Navnath	Rungude
_12	SCO21F012	Chivhe Sanket Sambhaji	Schirle.
13	SCO21F013	Dabhole Atharva Gajanan	A.G. Daphor
14	SCO21F014	Danavale Rutik Sunil	Par the
15	SCO21F015	Dere Ekata Santosh	FSD.
16	SCO21F016	Doiphode Harshada Tukaram	
17	SCO21F017	Gade Gaurav Baburao	G.B.Gade
18	SCO21F018	Gaikwad Neha Ajay	Galkwad NIT
19	SCO21F019	Gaikwad Rachana Amol	PAG
20	SCO21F020	Gajbhiye Sahil Hansraj	Suy F.
21	SCO21F021	Gawade Sahil Sham	Jule
22-	SCO21F022	Gopad Eshwar Abhay	Ciopad
23	SCO21F023	Haral Apurva Sandip	AP LINE
24	SCO21F024	Jagadale Aniket Chandrakant	produk
25	SCO21F025	Jangid Rohan Biharilal	B
26	SCO21F026	Kadam Sushant Prataprao	
27	SCO21F027	Karape Milind Nitin	At D
28	SCO21F028	Karape Nikita Nitin	(NKarape
29	SCO21F029	Kasabe Akshay Shahadev	
30	SCO21F030	Kashid Vaishnavi Vilas	Valsmaui_
31	SCO21F031	Khamkar Vivek Suresh	V.S. Khampton
32	SCO21F032	Khan Arbaz Khurshid	Callen state College over
3.3-	SCO21F033	Khopade Sakshi Suresh	Shapades of
34	SCO21F034	Kolapkar Mangesh Kakasaheb	E Contraction 3
15	SCO21F035	Kondhalkar Dipak Pandurang	6 tal strand / 3/
k	SCOZIF036	Kshirsagar Samruddhi Umes	

S. No	Roll No.	Student Name	Sign
37	SCO21F037	Kudale Omkar Sampat	Brudale_
38	SCO21F038	Kute Aniket Bandu	anglet B.k.
-39	SCO21F039	Mahajan Kaushal Shamkant	then .
40	SCO21F040	Mhaske Preeti Dnyaneshwar	(pmaske
41	SCO21F041	Mohite Akanksha Sudhakar	Ginchite
42	SCO21F042	Mohite Hrishikesh Shriniyas	Agonhite -
43	SCO21F043	More Ankita Sudam	Bould
44	SCO21F044	More Pratik Pandurang	
45	SCO21F045	Nevase Komal Bhauso	Prive
46	SCO21F046	Nigade Utkarsh Uday	Parst.
47 _	SCO21F047	Parthe Durgesh Bharat	pricing de
48	SCO21F048	Popale Vaishnavi Pandurang	(Ini Janui)
49	SCO21F049	Raval Shraddha Bankim	(Jashrav) Smruddua
50	SCO21F050	Ruchke Baba Bhausaheb	Shine
51	SCO21F051	Salekar Omkar Dattatray	BULEKar
52	SCO21F052	Salunkhe Anuja Dhanaji	Adutta
53	SCO21F053	Sayyad Amaan Rafik	Carolinte
54	SCO21F054	Tagad Suyash Anil	
55	SCO21F055	Upparbawde Sneha Rajkumar	Sheha.
56	SCO21F056	Vibhute Yash Jitendra	
57-	SCO21F057	Vyahalkar Digant Abhijeet	Hechallsar
58	SCO21F058	Waghmare Sahil Kishor	Theoghnore
59	SCO21F059	Zanje Aditi Shivaji	Dute
60	SCO22D060	Apet Shruti Surykant	Jac
.61	SCO22D061	Bhalerao Pratiksha Vasant	p.v. Bhaleras
-62	SCO22D062	Chavan Sakshi Adhik	Achava_
63	SCO22D063	Devade Mitali Uttam	Mitali
64	SCO22D064	Fargade saurabha Anil	Liter
65-	SCO22D065	Gaikwad Sanika Dilip	Elkucod-
66	SCO22D066	Ghogare Kunal Sudhakar	Perkuss
67	SCO22D067	Ghule Samruddhi Shivaji	1.10
68	SCO22D068	Jadhav Mayuri Vilas	AL
69	SCO22D069,	Kazi Lubna Gulabsha	L.G.Kazi
70	SCO22D070	Kodlinge Dnyaneshwari Prabhakar	ETRALIA
71	SCO22D071	Kondhalkar Payal Pandurang	CK.
72	SCO22D072	Mane Vaishanvi Ganesh	1/2
73	SCO22D073	Pawar Hemant Patangrao	Havar,
74	SCO22D074	Sakat Sagar Mahadeo	Ol
75	al EngSCO22D075	Salvi Riya Sandeep	Ducal
76/5/	SC022D076	Shinde Rutuja Keshav	RHGA
77 8	SCO22D077	Sonawane Abhijit Rajaram	BUSK.
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Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune

DEPARTMENT OF COMPUTER ENGINEERING

Academic Year: 2022-23

Class: TE		Subject :	Date:	
Roll No.	PRN No	Student Name	Signature	Marks
- BCO19F001		Asfiyan Nazim Attar	ALAX	
BCO20D002		Bait Rukshita Dinesh	1.04	
BCO19F003		Bhelke Shereya Umesh	Gubtere	
BCO20D004		Bhingare Isha Dilip	Daptone	
BCO20D005		Bhosale Shweta Sharad		
BCO19F006		Bobade Prachi Santosh	Rebude	
BCO19F007		Borane Shubham Sandip	Bordine	
BCO20D008		Borsare Shubham Tarudutta	Borsgre	
BCO18F009		Chavan Ritambara Shankar	Believan	_
BCO19F010		Dabade Suyash Sunil	Z	
BCO20D011		Dere Sunanda Muktaram	34	
BCO20D012		Devgirikar Vidya Sambhaji	Ordya	_
BCO19F013		Dhadave Ajinkya Rohidas	Apphone	_
BCO19F014		Dhadve Pragati Uddesh	- Thaday	
BCO20D015		Dighe Supriya Dattatray	titalec	
-BCO20D016		Gaikwad Puja Balkrushna	(Praibbad	
BCO19F017		Gaikwad Shubhangi Suryakant	Darkal	
BCO18F018		Gaikwad Sushil Pandurang	1 Statement	
BCO19F019		Garud Akshada Anil	Actus	
BCO19F020		Gawali Kartik Rakesh	Pres	
BCO18F021		Gorad Akshada Rajendra	Norad.	
BCO20D022		Gujar Sayali Satish	ARE:	
BCO20D023		Ingale Yash Sudhir		
BCO19F024		Ithape Shreya Santosh	Sthaps	
BCO19F025		Jadhav Dhiraj Anna		
BCO20D026		Jadhav Harshad Arjun	(Dae-	
PCO20D027		Jadhav Shweta Yashwant	Coare	
BCO19F028		Jagdale Harshada Shiyaji	(h&ragadale	
BCO20D029		Jagtap Gauravi Sopan	Cauvrani	
BCO20D030		Kachi Aditi Jagdish	tikachi	
BCO19F031		Kaluse Sahil Sanjay	4	
BCO18F032		Kamble Prashant Mohan	Amtable	
BCO19F033		Kanade Datta Chetan	C Renaet	
BCO20D034		Kanade Omkar Rajesh	Condy	
BCO20D035		Khaire Prajakta		
BCO19F036		Khandale Kiran Prakash	Chandel	

Attendance Sheet

BCO19F037	Khopade Ajit Dattatraya	Red and
BCO17F038	Kinhale Kajal Mohan	the second
BCO19F039	Kirve Makrand Shashikant	
BCO19F040	Koli Gaurav Rajendra	
BCO19F041	Korade Tujay Kamlakar	-TILIAN
BCO20D042	Kshirsagar Akash Mahesh	plansing -
BCO19F043	Kshirsagar Prathamesh Dilip	1 the servery
BCO20D044	Kshirsagar Vaibhav Mohan	
BCO19F045	Kumbhar Rutuja Dattatraya	stel ma
BCO19F046	Lawande Swapnil Bhalchandra	Hetworde.
BCO19F047	Mahandave Kunal Dilip	
BCO20D048	Mandhare Rupali Laxman	
BCO20D049	More Preeti Arvind	phmore
BCO19F050	Munde Abhijeet Bhagwat	4211012
BCO19F051	Padale Tejas Chandrakant	(Pourt)
BCO19F052	Pandit Akash Fakirchand	Acat
BCO18F053	Patankar Samarjeet Satish	Ser
BCO20D054	Patil Vaishnavi Devendra	Bui
BCO20D055	Pawar Mayur Ravindra	1 Sur
BCO20D056	Pawar Snehal Sunil	Irchal
BCO20D057	Pophale Kishori Vijay	Alexhade
BCO19F058	Raut Pooja Sharad	Raut
BCO17F059	Salunke Sangram Manohar	
BCO19F060	Saste Shubham Jalindar	Sudle.
BCO19F061	Shedge Pooja Sambhaji	FOUL
BCO19F062	Shilimkar Ashwini Vijay	Achitimkar
BCO20D063	Shilimkar Namrata Rajendra	Nethilimbo
BCO19F064	Shinde Dipak Naresh	Sching 2
BCO19F065	Shinde Sandhya Prabhat	Aburd .
BCO19F066	Shivtare Harshada Sanjay	Charshade
BCO18F067	Sonawane Shivam Laxman	Lonauroe
BCO20D068	Sonwane Sonal Eknath	Ane
BCO19F069	Suryawanshi Aniket Sunil	Assa
BCO19F070	Suryawanshi Komal Bhanudas	Komal
BCO20D071	Theurkar Priyadarshan Dnyanoba	Coner
BCO20D072	Thombare Chandan Shekhar	150
BCO19F073	Todkar Omkumar Murlidhar	
BC019F074	Umbarkar Kunal Sunil	
BCO20D075	Nege ci Er Wadkar Mohini Sanjay	HE edk2
BCO20D076	and the second of the second sec	4
BCO19F077	Watekar Abhinav Navnath	Telernyde
BC019F078	Yewale Yash Dattatray	
BC018D079	Jadhay Avinash Hanumant	1

BDL

Prof. B. D. Thorat Head of Department



14. Internship programme

Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Giat No. 237, Pune Bangalore Highway, Dhangawadi, Tal - Bhor, Dist-Pune (Maharashtra)

Details of Internship Programme A.Y. 2022-2023

S.No	Name of Student	Name of Sponsored Industry /Research Institute/ Partner in Institution	Duration	Name Of Department
ř	Kendre Sainath Taterao	Matru Chhaya Construction, Karve Nagar Pune	28/01/2023 To 28/02/2023	Civil
2	Jagtap Vivek Sanjeev	Matru Chbaya Construction, Karve Nagar Pune	28/01/2023 To 28/02/2023	Civil
3	Lambe Durgesh Vishnu	Matru Chhaya Construction, Karve Nagar Pune	28/01/2023 To 28/02/2023	Civil
4	More Apurva Shrikant	Matru Chhaya Construction, Karve Nagar Pune	28/01/2023 To 28/02/2023	Civil
5	Power Pratibha Sagar	Matru Chhaya Construction, Karve Nagar Pune	28/01/2023 To 28/02/2023	Civil
6	Bharekar Manavi Manohar	Matru Chhaya Construction, Karve Nagar Pune	28/01/2023 To 28/02/2023	Civil
7	Chavan Umesh Shankar	Matru Chhaya Construction Confectory Naget Place Dre 6304 SPPU : 4071 Phanta #31	28/01/2023 To 28/02/2023	Civil

Pat Shivalinat

8	Karme Kartik Bhimrao	Matru Chhaya Construction, Karve Nagar Pune	28/01/2023 To 28/02/2023	Civil
9	Sabale Vijaya Rohidas	Z.P.Sub Division (Works) Purandar,Pune	20/01/2023 To 05/03/2023	Civil
10	Ranjane Sandhya Sanjay	Vastu Tech Construction & Vastushastra,Bhor, Pune	20/04/2023 To 05/05/2023	Civil
11	Yadav Prajwal Santosh	Taj Creations Buildtech Llp.Khandala Dist – Satara	23/01/2023 To15/02/2023	Civil
12	Tupe Aditya Navnath	Taj Creations Buildtech Llp.Khandala Dist – Satara	23/01/2023 To 15/02/2023	Civil
13	Devrase Ganesh Santosh	Taj Creations Buildtech Llp.Khandala Dist – Satara	23/01/2023 To 15/02/2023	Civil
14	Pawar Vaibhav Dilip	Taj Creations Buildtech Llp.Khandala Dist – Satara	23/01/2023 To 15/02/2023	Civil
15	Olekar Prakasā Dnyaneshwar	Taj Creations Buildtech Llp.Khandala Dist – Satara	23/01/2023 To 15/02/2023	Civil
16	Bhokare Harshal Prakash	Shree Sai Shradhanand Developers, Khandala Dist –Satara	23/01/2023 To 15/02/2023	Civil
17	Babar Rajat Ravindra	Shree Sai Shradhanand Developers, Khandala Dist –Satara	23/01/2023 To 15/02/2023	Civil
18	Jadhav Tejas Ramesh	Shree Sa Shreen Technolog Developer, Kharadan Ibas Sappu 4071 Danga wan	01/2023 To 15/02/2023	Civil

15	Jadhav Tejas Naresh	Vta Engineering Services , Cbd Belapur , Navi Mumbai	1/02/2023 To 15/03/2023	Civil
20	i Keskar Rohini Ravindr a	Vta Engineering Services,Cbd Belapur , Navi Mumbai	1/02/2023 To 15/03/2023	Civil
21	Mane Akanksha Anant	Vta Engincering Services,Cbd Belapur , Navi Mumbai	1/02/2023 To 15/03/2023	Civil
22	Mandhare Ganesh Sanjay	Goel Ganga India Private Limted, Bundgarden Road ,Pune	15/02/2023 To 30/03/2023	Civil
23	Kanekar Aadil Abdul Wahab	S.A.Sheth Engineers & Govt.Contractor, Thane	28/02/2023 To 28/03/2023	Civil
24	Rajiwade Ketan Narayan	Sai Balaji Developers, Pune	15/01/2023 To 30/04/2023	Civil
25	Barkade Kishor Uttum	Gagan Developers, Pune	01/02/2023 To 31/05/2023	Civil
26	Achalere Baburao Shivanand	SSA Steel ,Pune	01/02/2023 To 15/03/2023	Civil
27	Bansode Rushikesh Shankar	SSA Steel "Pune	01/02/2023 To 15/03/2023	Civil
28	Bhoite Abhijeet Kanchan	SSA Steel ,Pune	01/02/2023 To 15/03/2023	Civil
29	Bodare Kaushtub Mohan	SSA Steel ,Pune	01/02/2023 To 15/03/2023	Civil
30	Charegaonkar Pratik Shailendra	SSA Steel ,Pune	01/02/2023 To 15/03/2023	Civil
H	Pawar Makrand Sanjay	SSA Store Put the	02/2023 To 15/03/2023	Civil

Sout Shivairap Cold

32	Gaud Mamta Satyanarayan	Rajgad Sahakari Sakhar Karkhana, Nigde, Bhor, Pune	15/02/2023 To 15/03/2023	Civil
33	Ghadge Om Sanjay	Rajgad Sahakari Sakhar Karkhana, Nigde, Bhor, Pune	15/02/2023 To 15/03/2023	Civil
14	Ghone Pritam Rohidas	Rajgad Sahakari Sakhar Karkhana, Nigde, Bhor, Purte	15/02/2023 To 15/03/2023	Civil
35	Jadhav Anil Naganath	Rajgad Sahakari Sakhar Karkhana, Nigde, Bhor, Pune	15/02/2023 To 15/03/2023	Civil
36	Jori Aditya Ram	Rajgad Sahakari Sakhar Karkhana, Nigde, Bhor, Pune	15/02/2023 To 15/03/2023	Civil
37	Pawar Prathmesh Rajendra	Rajgad Sahakari Sakhar Karkhana, Nigde, Bhor, Pune	15/02/2023 To 15/03/2023	Civil
38	Kadam Vaibhav Vikas	Anant Dudh Pvt. Ltd., Kikavi, Pune	01/02/2023 To 01/03/2023	Civil
39	Kambale Vaibhav Tatyasaheb	Anant Dudh Pvt. Ltd. , Kikavi, Pune	01/02/2023 To 01/03/2023	Civil
40	Kasar Akash Madan	Anant Dudh Pvt, Ltd. , Kikavi, Pune	01/02/2023 To 01/03/2023	Civil
41	Lagad Rajkumar Gajanan	Anant Dudh Pvt. Ltd. , Kikavi, Pune	01/02/2023 To 01/03/2023	Civil
42	Mane Suraj Arjun	Anant Dudh Pvt. Ltd. , Kikavi, Pune	01/02/2023 To 01/03/2023	Civil
43	Pawar Dhammadip Laxman	Anant Dudh Pvt. Ltd. , Kikavi, Pune	01/02/2023 To 01/03/2023	Civil
44	Madam Pooja Satish	Shrinath Developers, At post-Gunand, Bhor, Pune	15/02/2023 To 15/03/2023	Civil
45	Matale Rushikesh Kaluram	Shrinath Developers, At post-Gunand, Bhor, Pune	15/02/2023 To 15/03/2023	Civil
46	More Sunanda Shrikant	Shrinath Developers, At post-Gunand, Bhor, Pune	15/02/2023 To 15/03/2023	Civil
17	Pangare Megha Rajendra	Shrinath Developers, At post-Gunand, Bhor, Pune	15/02/2023 To 15/03/2023	Civil
18	Pisal Sanika Arun	Shrinath Developers, At post-Gunand, Bhor, Pune	15/02/2023 To 15/03/2023	Civil
19	Pawar Avinash Santosh	Shrinath Developers At post-Granet Blog of	15/02/2023 To 15/03/2023	Civil

	Pinpratiwar Akash Babruwan	Sarvesh Construction Company, Satara	01/02/2023 To 15/03/2023	Civil
51	Relekar Aditya Arun	Sarvesh Construction Company, Satara	01/02/2023 To 15/03/2023	Civil
52	Salunkhe Shrikant Popatbhai	Sarvesh Construction Company, Satara	01/02/2023 To 15/03/2023	Civil
53	Shinde Aniket Vitthal	Sarvesh Construction Company, Satara	01/02/2023 To 15/03/2023	Civil
54	Surwase Tejas Tatyasaheb	Sarvesh Construction Company, Satara	01/02/2023 To 15/03/2023	Civil
55	Thorave sonali Mahadev	Sarvesh Construction Company, Satara	01/02/2023 To 15/03/2023	Civil
56	Tupe Sandesh Ashok	Sarvesh Construction Company, Satara	01/02/2023 To 15/03/2023	Civil
57	Bahurupi Touhit Sardar	Sanjivani Enterprizes, Pune	15/02/2023 To 15/03/2023	E&TC
58	Baikar Shrutika Ashok	Xresilient & SXT IT Solutions Pune	15/02/2023 To 15/03/2023	E&TC
59	Bandal Alisha Jayendra	VCB Electronics	14/07/2023 To 14/08/2023	E&TC
60	Bhandare Pankaj Sanjay	Axiss Systems , Automation and Softare Solutions, Shindewadi Pune	24/02/2023 To 13/04/2023	E&TC
61	Chavan Aditya Dipak	M.S.K. Electricals & Electronics	15/03/2023 To 25/04/2023	E&TC
62	Dalvi Swati Shivaji	Philips GBS LLP Pune	21/01/2023 To 24/02/2023	E&TC
63	Devkar Aishwarya Chaitanyanath	Innotronix labs & Trading Pvt. Ltd. Sasewadi Tal Bhor Pune	27/03/2023 To 14/05/2023	E&TC
54	Gadhave Ankita Sambhaji	Arete Manufacturing Services Pvt.Ltd. Pune	02/02/2023 To 25/03/2023	E&TC
55	Gadhave Prathamesh Prashant	TARA Engineering, Pargaon Khandala	01/03/2023 To 05/04/20	E&TC
56	Gaikwad Priya Popat	VTA E Procestory 40	0/122023 To 05/04/2023	E&TC

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		Services	and the second sec	
67	Ghadge Saurabh Dilip	Sanjivani Enterprizes, Pune	10/04/2023 To 15/05/2023	E&TC
68	Ghavare Sushant Sunil	VTA Engineering Services	01/03/2023 To 05/04/2023	E&TC
69	Jadhav Kartik Arun	Sky Connect Software & Technologies	01/03/2023 To 05/04/2023	E&TC
70	Jadhav Rohit Sanjay	IDLE Solutions Private Limited Pune	10/04/2023 To 15/05/2023	E&TC
71	Jadhav Vaibhavi Santosh	GTL Infotech Pune	25/01/2023 To 09/03/2023	E&TC
72	Jagtap Apurva Sudhakar	VCB Electronics	14/07/2023 To 14/08/2023	E&TC
73	Jagtap Manasi Arjun	EXL Service.com(india) Private Limited	21/01/2023 To 24/02/2023	E&TC
74	Kagade Amit Santosh	IDLE Solutions Private Limited Pune	10/04/2023 To 15/05/2023	E&TC
75	Khomane Shubhangi Bapu	Philips GBS LLP Pune	21/01/2023 To 24/02/2023	E&TC
76.	Khopade Chaitrali Balkrushna	Kinetic Communications Ltd. Pune	21/01/2023 To 24/02/2023	E&TC
77	Khot Pratiksha Pandurang	Philips GBS LLP Pune	21/01/2023 To 25/02/2023	E&TC
18	Kiran Prakash Jujare	Philips GBS LLP Pune	21/01/2023 To 24/02/2023	E&TC
9	Konde Satwika Sanjay	Shoreline IoT India Private Limited	05/02/2023 To 10/04/2023	E&TC
0	Liman Harshada Pandorang	Chheda Electricals & Electronics Pvt. Ltd.	02/11/2022 To 23/03/2023	E&TC
1	Lohar Jayant Suryakant	IDLE Solutens trivate Lim ed Pupe SPPU - 40	000 /2023 To 15/05/2023	E&TC

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82	Mahamuni Pooja Santosh	Philips GBS LLP Pune	21/01/2023 To 24/02/2023	E&TC
83	Mule Atharva Sunil	IDLE Solutions Private Limited Pune	10/04/2023 To 15/05/2023	E&TC
84	Mulla Moin Tajuddin	IDLE Solutions Private Limited Pune	10/04/2023 To 15/05/2023	E&TC
85	Nailkar Dnyaneshwari Tanaji	GTL Infotech Pune	25/01/2023 To 09/03/2023	E&TC
86	Nevase Aaditi Mugutrav	Accurate Solutions, Pune	01/2/2023 To 27/03/2023	E&TC
87	Nigade Shweta Uttam	Cummins Indial Ltd, Phaltan	07/03/2023 To 07/04/2023	E&TC
88	Nikam Komal Manobar	Unicore Autocat Indiaq Pvt.Ltd. Shirwal	01/04/2023 To 30/04/2023	E&TC
89	Palke Rupesh Shrikisan	Perks Links & Services Pvt.Ltd. Mumbai	01/04/2023 To 30/04/2023	E&TC
90	Pandekar Prajakta Navnath	VCB Electronics	14/07/2023 To 14/08/2023	E&TC
91	Pardeshi Atharya Manojsing	Swara Enterprizes "Wai	01/03/2023 To 05/04/20	E&TC
92	Patil Rohit Rajaram	IDLE Solutions Private Limited Pune	10/04/2023 To 15/05/2023	E&TC
.93	Patil Shraddha Dilip	ioGenies Solutions LLP Bavdhan Pune	03/02/2023 To 06/04/2023	E&TC
94	Pawar Swapnita Rajabhau	GTL Infotech Pune	25/01/2023 To 09/03/2023	E&TC
95	Phadtare Shweta Anil	Swara Enterprizes , Wai	01/03/2023 To 05/04/203	E&TC
96	Rajpure Rutuja Chandrakant	Swara Enterprizes , Wai	01/03/2023 To 05/04/2023	E&TC
97	Raut Anuradha	M.S.K. Electrologo	1 09 023 To 25/04/2023	E&TC

Shirairan Col

	Jitendra	Electronics		
98	Reddi Smita Lakhan	Swara Enterprizes , Wai	01/03/2023 To 05/04/2023	E&TC
.99	Renuse Pranali Bapu	India Tech Soft Pune	24/02/2023 To 13/04/2023	E&TC
100	Salunke Reshma Vilas	Kinetic Communications Ltd. Pune	21/01/2023 To 24/02/2023	E&TC
101	Salunkhe Omkar Rajaram	Sanjivani Enterprizes, Pune	01/03/2023 To 05/04/2023	E&TC
102	Sawant Ajay Rajaram	Pantech Solutions	0/04/2023 To 12/0/2023	E&TC
103	Sayyadadnan Sarfraj Patel	Philips GBS LLP Pune	21/01/2023 To 24/02/2023	E&TC
104	Shikalgar Arbaj Niyaj	M.S.K. Electricals & Electronics	15/03/2023 To 25/04/2023	E&TC
105	Shinde Siddhi Rajendra	M.S.K. Electricals & Electronics	15/03/2023 To 25/04/2023	E&TC
106	Shirke Kranti Baburao	Q.H. Talbros Pvt. Ltd Shirwal	01/02/2023 To 15/03/2023	E&TC
107	Shirodkar Rachana Vishnu	GE India Industrial Pvt Ltd Pune	13/02/2023 To 22/03/2023	E&TC
108	Swami Sangmeshwar Virbhadra	ish Infra Services Pvt.Ltd.	01/03/2023 To 31/03/2023	E&TC
109	Vaishnavi Ramdas Utekar	Xresilient & SXT IT Solutions Pune	15/02/2023 To 15/03/2023	E&TC
110	Waghmare Ajay Sanjay	Arete Manufacturing Services Pvt.Ltd. Pune	05/12/2022 To 05/02/2023	E&TC
111	Zanzane Prafulla Dharmaraj	Arete Manufacturing Services Pvt.Ltd. Pune	05/12/2022 To 05/02/2023	E&TC
12	Karan Anil Rajiwade	Construction SPPU: 4079 Dhanp.(kan)	04013/2023 10 08/04/ 2023	Computer

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113	Yash Pradeep Shinde	Data Analytics	02/05/2023 - 30/06/2023	Computer
114	Bhapkar Vaishnavi Dadasaheb	Easy Shiksha	11/02/2023 To 10/03/2023	Computer
115	Bhosale Sayali Pravin	Elite Softwares	17/03/2023 -04/05/2023	Computer
116	Chinchakar Giridhar Ramesh	Grow More	01/02/2023 to 01/03/2023	Computer
117	Khopade Bhagyashree Shantaram	IANT Computer Education	04/03/2023 to 08/04/2023	Computer
118	Jadhav Rupa Dattatray	IANT Institute of Advanced Network Technology	04/03/2023 to 08/04/2023	Computer
119	Vaishnavi Sharad Vedpathak	IANT Institute of Advanced Network Technology	04/03/2023 to 08/04/2023	Computer
120	Dhamal Nikita Himmat	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
121	Vaishnavi Santosh Danavale	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
22	Talekar Prerana Vijay	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
23	Salunke Gauri Dattatray	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
24	Yadav Rutuja Deepak	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
25	Akanksha Ashok Pawar	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
26	Malusare Shamal Mukund	India Techson and	15 100 0023 to 13/04/2023	Computer

Consing Color

Medhekar Anuradha Mallayya Bhandari	Intempe	27/03/2023 to 26/04/2023	Computer
Anuradha Mallayya	Intempe	27/03/2023 to 26/04/2023	Computer
Medhekar			
Prajakta Ulhas Medhekar	Internpe	27/03/2023 to 26/04/2023	Computer
Jankar Tejaswini Vijay	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
Sharad	India Techsoft Pune		
Malekar Pratiksha	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
Kudale Harshada Bharat	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
Gavhane Sanika Dashrath	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
Dharpale Nikita Ankash	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
Jagtap Vaishnavi Sanjay	India Techsofi Pune	24/2/2023 to 13/04/2023	Computer
Salunke Gaori Dattatray	India Techsoft Pune	24/02/2023 to 13/04/2023	Computer
	Jagtap Vaishnavi Sanjay Dharpale Nikita Ankash Gavhane Sanika Dashrath Kudale Harshada Bharat Malekar Pratiksha Sharad Jankar Tejaswini Vijay Prajakta Ulhas Medhekar	Jagtap Vaishnavi SanjayIndia Techsoft PaneDharpale Nikita AnkushIndia Techsoft PaneGavhane Sanika DashrathIndia Techsoft PaneKudale Harshada BharatIndia Techsoft PaneMalekar Pratiksha SharadIndia Techsoft PaneJankar Tejaswini VijayIndia Techsoft PanePrajakta Ulhas MedhekarInternpeAnuradha MallayyaInternpe	Jagtap Vaishnavi SanjayIndia Techsoft Pune24/2/2023 to 13/04/2023Dharpale Nikita AnkushIndia Techsoft Pune24/02/2023 to 13/04/2023Gavhane Sanika DashrathIndia Techsoft Pune24/02/2023 to 13/04/2023Kudale Harshada BharatIndia Techsoft Pune24/02/2023 to 13/04/2023Malekar Pratiksha SharadIndia Techsoft Pune24/02/2023 to 13/04/2023Jankar Tejaswini VijayIndia Techsoft Pune24/02/2023 to 13/04/2023Prajakta Ulhas MedhekarInternpe27/03/2023 to 26/04/2023Anuradha MallayyaInternpe27/03/2023 to 26/04/2023

43	Salvi Sankita Sudhakar	OASIS Infobyte	16/03/2023 to 15/04/2023	Computer
44	Shreyash Jaywant Mokashi	OASIS Infobyte	05/09/2023 To 05/10/2023	Computer
45	Kale Renuka Nivrutti	OASIS Infobyte	15/04/2023 to 15/05/2023	Computer
46	Neha Santosh Jadhav	Pantech Solutions	01/04/2023 to 30/04/2023	Computer
47	Rutuja Dattatray Bandal	Scorpy Tech, Pune	01/02/2023 to 29/04/2023	Computer
48	Gawade Nikita Mahendra	Scorpy Tech, Pune	01/02/2023 to 29/04/2023	Computer
49	Gaikwad Akshada Ajit	Scorpy Tech, Pune	01/02/2023 to 29/04/2023	Computer
150	Kamble Priyanka Shankar	Scorpy Tech, Pune	01/02/2023 to 29/04/2023	Computer
151	Ganeslikar Gayatri Anil	Scorpy Tech, Pune	01/02/2023 to 29/04/2023	Computer
152	Jagtap Sayali Sunil	Scorpy Tech, Pune	01/02/2023 to 29/04/2023	Computer
153	Shinde Rashmi Ravindra	Scorpy Tech, Pane	01/02/2023 to 29/04/2023	Computer
154	Hema Tanaji Deshmukh	Scorpy Tech, Pune	01/02/2023 to 29/04/2023	Computer
155	Badadhe Damayanti Dnyandev	Scorpy Tech, Pune	01/02/2023 to 29/04/2023	Computer
156	Bhujbal Shravan Vijaykumar	Shreyash IT Solution	02/03/2023 to 02/05/2023	Computer
157	Pujari Mahesh Mandappa	Shreyash IT Solution	02/03/2023 to 02/05/2023	Computer
158	Ghodekar Suyog Bhagwan	Shreyash IT Solution	02/03/2023 to 02/05/20233	Computer
159	Bhome Akash Rajendra	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
160	Bhosale Sanket Pradip	Smart-LeithonTech 1 sppU 40 Dhamjawi	-2022 to 10-04-2022	Computer

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161	Bhosale Suraj Dadaso	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
162	Chourasiya Darshan Rajesh	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
163	Deshmokh Sanika Parag	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
[64]	Deshpande Amey Chintamani	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
165	Gadhave Rohit Sudhir	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
166	Gaikwad Sakshi Abasaheb	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
167	Jagtap Mayur Sanjay	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
168	Jamadar Asim Zhakirhusen	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
169	Salunkhe Sakshi Sandip	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
170	Bhandare Karan Sunil	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
171	Jarad Devyani Vishwas	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
172	Shreeharsh Suhas Puntambekar	Smart-Bit Info Tech	10-02-2022 to 10-04-2022	Computer
173	Katkar Yash Pramod	VIM Digitech Services Ltd	10-02-2022 to 10-04-2022	Computer
174	Kondhalkar Mangesh Shashikant	VIM Digitech Services Ltd	10-02-2022 to 10-04-2022	Computer
175	Vishwakarma Rohit Pappu	VIM Digitech Services Ltd	10-02-2022 to 10-04-2022	Computer
176	Wavhal Pranav Sachin	VIM Digitech Services	10-02-2022 to 10-04-2022	Computer
177	Barge Sumit Dipak	Phaltan Grade Sampy Dhanga	4071 VE march-10 may	Mechanical

		Service Center		
78	Gurav Suyog Yogesh	Snehal Automotive	21 feb-21 march	Mechanical
79	Jadhav Nikita Santosh	Nipro india corporation PVT.LTD	1 dec-15 jan	Mechanical
80	Kindre Soham Jayant	S.K.Engineering	21 march-10 may	Mechanical
81	Pawar Akshay Arun	Phaltan Garage and Service Center	21 march-10 may	Mechanical
82	Pisal Sanika Naryan	Snehal Automotive	21 feb-21 march	Mechanical
83	Shaikh Adii Musta	Wai Engineering works	28 april-30 may	Mechanical
84	Tanpure Kunal Chandrakant	S.K.Engineering	21 march-10 may	Mechanical
85	Tanpure Tejas Sandip	S.K.Engineering	21 march-10 may	Mechanical
86	Bhalerao Pramodkumar Prabhakar	Shravani Enterprises	1 dec-15 jan	Mechanical
87	Jadhav Omkar Popar	TATA Cummins PVT LTD	25 march- 25 may	Mechanical
88	Khaire Saurabh Popat	S.K.Engineering	21 march-10 may	Mechanical
89	Kokare Ajay Kamlakar	TATA Cummins PVT LTD	25 march- 25 may	Mechanical
90	Kokare Ankush Salu	TATA Cummins PVT LTD	28 april-30 may	Mechanical
91	Kulkami Sanket Sunil	KSB Pumps Company	2 jan-15 feb	Mechanical
192	Kumbhar Deep Laxman	E CADD	1 dec-15 jan	Mechanical
93	Tejas ashok Pol	TOOL ROOM AND ENGINEERING SERVICES	l jun-12 feb	Mechanical
94	Kurade Abhijit Bapu	KSB Pumps Company	2 jan-15 feb	Mechanical
95	Rajane Nikhil Laxman	Snehal Automotive	21 feb-21 march	Mechanical
96	Patel Vikas Ramakant	BOSCAL D = Providence	1 dec-28 feb	Mechanical

Sand Sanayrage Calif

197	Suryawanshi Ajay Bhausaheb	S.K.Engineering	21 march-10 may	Mechanical
198	Nanaware Ashish Arun	TATA Cummins PVT LTD	25 march-25 may	Mechanical
199	Nimbalkar Pratik Ramesh	TATA Cummins PVT LTD	25 march-25 may	Mechanical
200	Newase Siddhesh Sanjay	HY-Tech Engineers LTD.	21 march-10 may	Mechanical
201	Raut Shubham Rohidas	Wai Engineering works	28 april-30 may	Mechanical
202	Shinde Shreyash Anil	Wai Engineering works	28 april-30 may	Mechanical
203	Sangle Omkar Dattatrya	AUTO CAD	19 feb-19 april	Mechanical
204	Sonkamble Niraj Pirappa	AUTO CAD	19 feb-19 april	Mechanical



Principal Rajged Dnyanpeeth's Shri Chinatrapati Shivajiraje College of Engg., Dhongawadi, Pune-412 205

CERTIFICATE NO : CERT_6QFZNBMG

CIN NO : U80900TN2012PTC085936

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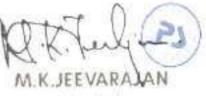
CERTIFICATE OF INTERNSHIP

This is to certify that AJAY RAJARAM SAWANT

INTERNSHIP ON EMBEDDED C PROGRAMMING

to Foregot Prolabs Index For Ltd.

12-05-2023 DATE



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H.O. :At Padmavati. Post - Bhuinj , Tai Wai, Dist Satara. 🔯 :(02167) 285371

Branch Office: "BASERA" ITI Road, Near P & T Colony, Dist. ShivajiNagar, Dist Ratnagiri 🚳 : 02352)225521

Date: 15/03/2023

TO WHOM IT MAY CONCERN

This is to certify that **Mrs.PINPATRIWAR AKASH BABRUWAN**, a student of Department of Civil Engineering, Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune has successfully completed 45 days (From 01/02/2023 to 15/03/2023)Internship program on our project site. During the period of her internship program with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Sarvesh Construction Company ASHUR Proprietor



CONSTR CONSTRUCTION COMPANY

ENGINEERS & GOVT. CONTRACTORS A. A. Pawar

H.O. :At Padmavati. Post - Bhuinj , Tai Wai, Dist Satara. 额 :(02167) 285371

Branch Office: "BASERA" ITI Road, Near P & T Col ony, Dist. ShivajiNagar, Dist Ratnagiri 🚳 : 02352)225521

Date: 15/03/2023

TO WHOM IT MAY CONCERN

This is to certify that **Mr. RELEKAR ADITYA ARUN**, a student of Department of Civil Engineering, Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune has successfully completed 45days(From 01/02/2023 to 15/03/2023)Internship program on our project site. During the period of her internship program with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Sarvesh Construction Company ASHULK Proprietor





H.O. :At Padmavati. Post - Bhuinj , Tai Wai, Dist Satara. The control of the cont

Date: 15/03/2023

TO WHOM IT MAY CONCERN

This is to certify that **Mr. Salunkhe Shrikant Popatbhai**, a student of Department of Civil Engineering, Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune has successfully completed 45days (From 01/02/2023 to 15/03/2023)Internship program on our project site. During the period of her internship program with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Sarvesh Construction Company ASHULK Proprietor





H.O. :At Padmavati. Post - Bhuinj , Tai Wai, Dist Satara. 🛣 :(02167) 285371 Branch Office: "BASERA" ITI Road, Near P & T Col ony, Dist. ShivajiNagar, Dist Ratnagiri 🛣 : 02352)225521

Date: 15/03/2023

TO WHOM IT MAY CONCERN

This is to certify that **Mr. SHINDE ANIKET VITTHAL**, a student of Department of Civil Engineering, Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune has successfully completed **45days** (From 01/02/2023 to 15/03/2023)Internship program on our project site. During the period of her internship program with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Sarvesh Construction Company ASHUR





H.O. :At Padmavati. Post - Bhuinj , Tai Wai, Dist Satara. 窗 :(02167) 285371

Branch Office: "BASERA" ITI Road, Near P & T Col ony, Dist. ShivajiNagar, Dist Ratnagiri 🚳 : 02352)225521

Date: 15/03/2023

TO WHOM IT MAY CONCERN

This is to certify that **Ms. Surwase Tejas Tatyasaheb**, a student of Department of Civil Engineering, Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune has successfully completed 1 Month (From 01/02/2023 to 15/03/2023)Internship program on our project site. During the period of her internship program with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.



(Authorized Signature)



A. A. Pawar

H.O. :At Padmavati. Post - Bhuinj , Tai Wai, Dist Satara. The state in the state in

Date: 15/03/2023

TO WHOM IT MAY CONCERN

This is to certify that **Ms Thorave Sonali Mahadev**, a student of Department of Civil Engineering, Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune has successfully completed 45days (From 01/02/2023 to 15/03/2023)Internship program on our project site. During the period of her internship program with us she was found punctual, hardworking and inquisitive. We wish her every success in life.

Sarvesh Construction Company Proprietor

(Authorized Signature)



H.O. :At Padmavati. Post - Bhuinj , Tai Wai, Dist Satara. 🐻 :(02167) 285371

Branch Office: "BASERA" ITI Road, Near P & T Col ony, Dist. ShivajiNagar, Dist Ratnagiri 🔞 : 02352)225521

Date: 15/03/2023

TO WHOM IT MAY CONCERN

This is to certify that **Mr. Tupe Sandesh Ashok**, a student of Department of Civil Engineering, Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune has successfully completed 45days (From 01/02/2023 to 15/03/2023)Internship program on our project site. During the period of her internship program with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Sarvesh Construction Company ASHIN Proprietor



CONSTR CONSTRUCTION COMPANY

ENGINEERS & GOVT. CONTRACTORS A. A. Pawar

H.O. :At Padmavati. Post - Bhuinj , Tai Wai, Dist Satara. 额 :(02167) 285371

Branch Office: "BASERA" ITI Road, Near P & T Col ony, Dist. ShivajiNagar, Dist Ratnagiri 🚳 : 02352)225521

Date: 15/04/2022

TO WHOM IT MAY CONCERN

This is to certify that **Mr. Karale Pravin Sudhir**, a student of Department of Civil Engineering, Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune has successfully completed **1 Month (From 15/01/2022 to 10/04/2022)**Internship program on our project site. During the period of her internship program with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Sarvesh Construction Company ASHULK Proprietor





H.O. :At Padmavati. Post - Bhuinj , Tai Wai, Dist Satara. 🎓 :(02167) 285371 Branch Office: "BASERA" ITI Road, Near P & T Col ony,Dist. ShivajiNagar, Dist Ratnagiri 🎓 : 02352)225521

Date: 15/04/2022

TO WHOM IT MAY CONCERN

This is to certify that **Mr. Katta Sachin Sanju**, a student of Department of Civil Engineering, Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune has successfully completed 1 Month (From 15/01/2022 to 10/04/2022)Internship program on our project site. During the period of her internship program with us she was found punctual, hardworking and inquisitive.

We wish her every success in life.

Sarvesh Construction Company

15. Workshop

Rajgad Dnyanpeeth's



SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune -412205 (MS). India. Website: <u>www.rajgad.edu.in</u>, Email Id: <u>scscoe@gmail.com</u>

Date: 26/02/2023

INVITATION LETTER

To,

Mr. Irfan Soni

Excelr, 101 A ,1st Floor, Siddh Icon, Baner Rd, opposite Lane To Royal Enfield Showroom, beside Asian Box Restaurant, Baner, Pune, Maharashtra 411045

Subject: Invitation for conducting Student development program (Add on course) "Basic Programming with Java" in between 27th Feb2023 to 3rd March2023

Dear Sir,

Our College_is going to organize a Student development program (Add on course) on "Basic Programming with Java" from 4th to 27th Feb2023 to 3rd March2023. for students in our Institute.

Considering your expertise and experience in the same field, it gives us immense pleasure to invite you as a guest speaker for the above said Student development program (Add on course).

Kindly, accept the invitation and acknowledge the same.

Thanking You.

Yours truly,

Prof. S. V. Jagtap

Program Coordinator



Prof. Dr. S. B. Patil Principal

Principal Rajgad Dnyanpeeth Technical Campus Shri Chhatrapati Shivajiraje College of Engineering Dhanqawadi, Bhor, Pune- 412 205



Rajgad Dyanpeeth's WS Shri Chhatrapati Shivajiraje College of Engineering, Pune



Basic Programming With Java

27th to 3rd March 2023

11am to 5 pm (6 hour Per Day)

www.excelr.com

for Free

Get Certificate Of Participation

Call For More Information

edl@excelr.com



Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune -412205 (MS). Website: www.rajgad.edu.in, Email Id: <u>sescoefa</u>/gmail.com

Date: 12th Feb 2023

PERMISSION LETTER

To, The Principal, Rajgad Dnyanpeeth*s Shri Chhatrapati College of Engineering Dhangwadi, Pune

Subject: Permission for conducting 30 Hour Training Program on "Basic Programming with Java" from 27th Feb 2023 to 3rd March 2023.

Respected Sir,

We would like to conduct a 30 Hour Training Program on "Basic Programming with Java" from 27th Feb 2023 to 3rd March 2023 for students of our Institute through Training and Placement Cell.

The main objective of the program is to guide students about how to think innovative idea and how to know about novelty. Also guided about industrial training experience.

The guest speaker will be Mr. Irfan Soni who is working as a trainer in Excelr, Pune. He is having more than 12 years of vast training experience. Mr. Irfan Soni has conducted more than 170 training programs to different colleges.

It gives us great pleasure to invite him as a guest speaker for above said training program. Kindly, allow us for the training program for mentioned dates.

Thanking You, Yours truly.

Event Coordinator

Remark:

RAJGAD DNYANPEETH'S SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Gat .No-237, Pune Banglore Highway, Dhangawadi, Tal-Bhor, Dist-Pune (Maharashtra)

Date: 15/01/2023

NOTICE

All Mechanical Engineering students hereby informed that, A Student development program (Add on course) on the topic "Basic Programming with Java" from 4th to "27th Feb2023 to 3rd March2023". All students are instructed to register the workshop till 25/02/2023 and attend the same. Attendance is mandatory to all.

Venue: Seminar Hall

Speaker Details -

Mr. Irfan Soni Head, Learning & Development Coordinator, ExcelR, Pune

Prof. S. V. Jagtap Program Coordinator

Prof. Dr. S. B. Patil

Principal

Principal

Rajgad Dnyanpeeth Technical Campus Shri Chhatrapati Shivajiraje College of Engineering Dhanqawadi, Bhor, Pune- 412 205



Rajgad Dnyanpeeth's



SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal - Bhor, Dist- Pune (MH)

TRAINING AND PLACEMENT CELL

Report of 30 Hours Training Program on "Basic Programming with Java"

Date: 04/03/2023

- 1. Program type: Training Program
- 2. Event Name: "Basic Programming with Java"
- 3. Attendees: TE and BE Students from All Departments
- 4. Name and Designation of Resource Person : Mr. Irfan Soni, Trainer
- 5. Company / Institute of Resource Person: Excelr
- 6. Event coordinator: Prof. S. V. Jagtap
- 7. Date of Execution: 27th Feb to 3rd March
- 8. Duration of Event: Six Days (30 Hour)
- 9. Venue of event / Link: Seminar Hall, SCSCOE, Dhangwadi, Pune
- 10. Number of Participants: 31
- 11. Fee details: Free
- 12. Objectives: As the Demand for Java programming Skills in an IT Technocrat are growing, this Specialized Training will solve their needs. The main purpose of this workshop helps students understand the fundamentals of Java programming. It walks them through real world implementations and first-hand experiences of implementing cloud computing. It also provides students with details on what kind of skill sets are needed and what job profiles are available.
 - 13. Outcomes:
 - ✓ To understand the concepts and features of object oriented programming
 - To examine key aspects of java Standard API library such as util, io, applets, swings, GUI based controls.
 - ✓ To learn java's exception handling mechanism, multithreading, packages and interfaces.
 - ✓ To develop skills in internet programming using applets and swings

Rajgad Dnyanpeeth's

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SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (MH)

14. Description / speaker topic explanation:

Training and Placement Cell planned to conduct Workshop on "Basic Programming with Java" organize by Prof. S. V. Jagtap in Association with Excelr for TE & BE Students and Prof. S. K. Pawar, Head of the Computer Department, introduced the resource persons and welcomed all the participants to the training program. Resource Person have discussed the following points

Day 1: Introduction to Basic of Java, Class

Day 2: Overview of Objects, and Types of Classes, Packages in Java Data Types in Java

Day 3: Variables, Constraints, and Literals, Methods in Java, Constructor in Java

Day 4: Modifiers in Java, Static Keyword, Final Keyword, Inner Class in Java

Day 5: Super and this keyword, Encapsulation, Inheritance, Polymorphism, Abstraction

Prof. S. V. Jagtap Coordinator thanked the resource person for his valuable, outstanding, and overwhelming presentation. He expressed this session has given more knowledge on Basic Programming with Java to students insights of implementing it. He also thanked every participant for their active participation during entire session.

15. Conclusion: All the participants expressed very positive feedback. They expressed it's an outstanding and motivational. This session on Basic Programming with Java met the program objectives.



Rajgad Dnyanpeeth's SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune (MH)

16. Photos with caption



Session Conducted By Mr. Irfan Soni



Question and answers session

1311

Prof. S. V. Jagtap Coordinator



Prof. Dr. S. B. Patil Principal

Principal Rajgad Dnyanpeeth Technical Campus Shri Chhatrapati Shivajiraje College of Engine Dhanqawadi, Bhor, Pune- 412 205 CHHATRAPAT



SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Rajgad Dnyanpeeth's

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune -412205 (MS). India. Website: www.rajgad.edu.in, Email Id: scscoe@gmail.com

Date: 03/03/2023

APPRECIATION LETTER

To,

Mr. Irfan Soni

101 A ,1st Floor, Siddh Icon, Baner Rd, opposite Lane To Royal Enfield Showroom, beside Asian Box Restaurant, Baner, Pune, Maharashtra 411045

On behalf of the **Rajgad Dnyanpeeth's Shri Chhatrapati College** of **Engineering Dhangwadi, Pune**, we wanted to express our deep gratitude to you for conduction of Student development program (Add on course) on the topic "Basic Programming with Java" from 4th to "27th Feb 2023 to 3rd March 2023." It was really informative and useful. Definitely all the participants have benefited from your sessions.

We are very much thankful to you for making it convenient to be with us.

Once again, thank you for making the workshop successful, and we expect your continued support in future also.

Yours Truly,

Prof. S. V. Jagtap **Program Coordinator**



Prof. Dr. S. B. Patil Principal

Principal Rajgad Dnyanpeeth Technical Campus Shri Chhatrapati Shivajiraje College of Engineering Dhanqawadi, Bhor, Pune- 412 205



Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune

Training and Placement Cell

Title of Program: Student development program (Add on course)

Attendance Sheet

			Sign				
Sr. No.	Full Name	Department	Day 1	Day 2	Day 3	Day	Day 5
1	BAHURUPI TOUHIT SARDAR	BE MECH	4	R	2	R	02
2	BAIKAR SHRUTIKA ASHOK	BE MECH	n K	A	B	A	- A
3	BANDAL ALISHA JAYENDRA	BE MECH	Bi	Bi	Bi	Bi	Bi
4	BABAR RUTUJA PRADIP	BE MECH	RI	RA	PL		Py
5	BHARATI ROHINI LAXMAN	BE MECH	81	el	Bl	el	B
6	BHIMANAVARV BASAVARAJ ARJUN	BE E&TC	p	P2	Fe	1	E
7	DESHMUKH SAMEER SATISH	BE E&TC	The	te	F	F	F
8	DEVKAR POONAM DHANAJI	BE E&TC	Dave	Pena	De	Dex	Den
9	DHONDE ABHIJEET VITTHAL	BE E&TC	BL	hun.	Ser	Et.	Car
10	DUDHANE TEJAS TANAJI	BE E&TC	THE	Tig .	Til	TEP	Telal
11	NIKALAJE SURAJ RAJENDRA	BE E&TC	4	M	y	-	M
12	ALGUDE SWAPNIL DILIP	TE E&TC	Akinke	Rych	Might	Aprile	1
13	SHAIKH ASSAD GAFFAR	TE E&TC	Shan	8	*-Se	Ser	Seu
14	GHADGE ATISH SAYAJI	TE E&TC	Ore	Ver	Ver		luc
15	AWADE SHRIKANT SUNIL	TE E&TC	Burn	hu	ne	山	4
16	Asfiyan Nazim Attar	TE COMP	14	14AL	MAL	ABA	Kal
17	Bait Rukshita Dinesh	TE COMP	Reit	sit	Boit	Beit	Beit
18	Bhelke Shereya Umesh	TE COMP	BL	Br	11. I. I. I. I. I. I. I. I. I. I. I. I. I.	R	Pf
19	Bhingare Isha Dilip	TE COMP	80	80	BD	BD	BD
20	Bhosale Shweta Sharad	TE COMP	B156	Billy	-18	Bla	. Bh
21	Bobade Prachi Santosh	TE COMP	-86	84	So	SB	50
22	Borane Shubham Sandip	TE COMP	por	m	the	ta	to

23	Badadhe Damayanti Dnyandev	BE COMP	B	1B	6 6	L Bo	티교
24	Bandal Rutuja Dattatray	BE COMP		Pa	R	ER	E Pr
25	Bhandari Anuradha Mallayya	BE COMP	an	-	-	- Av	w For-
26	Bhome Akash Rajendra	BE COMP	Hay	3 124	DAVES	ONB	
27	Bhosale Sanket Pradip	BE COMP	June	1/	5	Fil.	C.
28	Bhosale Suraj Dadaso	BE COMP	Keho	- Fe	fer	11	1
29	Bhujbal Shravan Vijaykumar	BECOMP	filib	Shb	She		Ship
30	Chourasiya Darshan Rajesh	BE COMP	how	Pille	-Dent	Dave	ilan
31	Jagtap Gauravi Sopan	BE COMP	ø	g.	Br	For	gn

Program Coordinator

16. MOU



Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal - Bhor, Dist- Pune (Maharashtra)

MOU with Institute/Industries

A. Y. 2022-2023

S.No	Name of industry/ Company Research Institute / Partnering Institution	Date of Commencement	Name Of Department	Duration
1	SSA Steel Pvt. Ltd., Pune	15/07/2020	Civil	5 Years
2	Rajgad Sahakari Sakhar Karkhana, Nigde, Bhor, Pune	15/03/2013	Civil	10 Years
3	Anant Dudh Pvt. Ltd. , Kikavi, Pune	10/04/2013	Civil	10 Years
4	Sarvesh Construction Company, Satara	05/01/2016	Civil	10 Years
5	ECADD Computer Institute, Bhor, Pune	17/07/2021	Civil	10 Years
6	Shrinath Developers, At post-Gunand, Bhor, Pune	15/06/2021	Civil	5 Years
7	VA-Computer Institute, Bhor, Pune	15/06/2021 D SPPU: 40 Dhangawa	Civil Clinica Compus	5 Years

Shivajiraje Colleg

	Pandharpur, Dist Solapur, Pin- 413304			10 Years
9	Constrotrait Material Testing & Services LLP, Songirwadi Wai, Tal-Wai,Dist-Satara	01/02/2023	1/02/2023 Civil	
10	Matruchhaya Construction Karvenagar, Pune	01/12/2022	Civil	10 Years
11	Vastu Tech Construction and Vastushastra, Bhor, Pune	02/12/2023	Civil	10 Years
12	Microdynamic Software Pvt. Ltd., Pune	10-07-2017	Computer	5 Years
13	Genius World Centre Pvt. Ltd.	08-08-2016	Computer	10 Years
14	Web Minds IT Solutions, Pune	20-10-2020	Computer	5 Years
15	L & D Infotech Pvt. Ltd.,Pune.	17-12-2021	Computer	5 Years
16	Petronix Technologies Pvt. Ltd., Pune.	03-03-2022	Computer	5 Years
17	Speciality Sintered products Pvt Ltd.	20/12/2014	Mechanical	10 Years
18	Saturn Rings & Forgings Pvt Ltd.	01/12/2020	Mechanical	05 Years
19	High Power Engineering Co.Pvt.Ltd.	04/01/2019	Mechanical	05 Years
20	TestBook Edu Solution Pvt. Ltd.	20/08/2002 D	E&TC	01 Year

21	Udya Gujar Foundation	12/01/2023	E&TC	10 Years
22	Go-Green Technologies Pvt.Ltd.	26/04/2023	E&TC	10 years
23	KDN Infotech Pvt.Ltd & V And K Softtech Solution Pvt. Ltd.	1/4/2023	E&TC	05Years
24	Swara Enterprises, Ratnagiri	1/05/2020	E&TC	10Years

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Principal Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engg., Dhangawadi, Pune-412 205

Rajgad Dnyanpeeth's



Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra & DTE. Mumbai, and Affilliated to Savitribai Phule Pune University, Pune (ID. PU/PN/Engg./376/2009), DTE CODE : EN3624,



Sangram Thopte MLA, Executive President Sau. Swarupa S.Thopte Hon. Secretary Since-1972

Dr. S. B. Patil Principal

Memorandum of Understanding between RD's-Shri Chhatrapati Shivajiraje College of Engineering

&

UDAY GUJAR FOUNDATION

This Memorandum of Understanding (hereinafter referred to as "MoU") is entered into on this

day Thursday and date 12/01/2023.

Between:

RD's-Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Tal-Bhor, Dist-Pune, Maharashtra, (hereinafter referred to as "The College" an institution of higher learning founded in 2009 Affiliated to Savitribai Phule Pune University's approved by AICTE, New Delhi.

And

Uday Gujar Foundation - Gat No. 1145 At post – Wing, Mahangare Vasti, Shirwal - Bhor Road, Tal – Khandala, Dist - Satara – 412801.(hereinafter referred to as "UGF")

The College and The UGF shall be collectively referred to as "The Parties"

In furtherance of their mutual interest in improvement of Academics, Technical Enhancements and Improvising Employability Skills of the students as a contribution to the Social and Economic development of the region, The Parties mentioned above hereby agree to and adopt the following Memorandum of Understanding.

Article 1: The Purpose of the Agreement

The Parties are committed to enhancement of academic skills of the students of the college, educational excellence, collaborative work, intellectual freedom and equality of educational and employment opportunities.

Some broad goals of this MoU are:

1. Take into consideration the aspects of the subject required by the industries for possible future inclusion in the curricula

2. Enhance the understanding of the students through field experience

3. Make students independent and responsible towards learning and social inclination

4. Build a network of learning community & Industries.

Article 2: General Activities and Services

- The Parties will voluntarily undertake the following:
- 1. Organising workshops and other activities.
- 2. Create scope for curriculum development and enrichment
- 3. Encourage joint research activities
- 4. Extension Activities and dissemination of new knowledge



Rajgad Dnyanpeeth's



Shri Chhatrapati Shivajiraje College of Engineering

Approved by AICTE, New Delhi, Recognized by Govt, of Maharashtra & DTE. Mumbai, and Affilliated to Savitribai Phule Pune University, Pune (ID. PU/PN/Engg./376/2009), DTE CODE : EN3624,



Anantrao Thopte	Sangram Thopte	Sau. Swarupa S.Thopte	Dr. S. B. Patil
Founder President, Ex.Edu, Minister	MLA, Executive President	Hon. Secretary	Principal

Article 3: Role of the College

Following are the roles identified for The College

- 1. Provide academic support to the Industry.
- 2. Provide assistance in the form of student interns as and when required.
- 3. Support and promote employees to pursue their higher education.
- 4. Initiate and support exchange of human resource on case to case basis.

Article 4: Role of the Uday Gujar Foundation

Following are the roles identified

1. Provide opportunities for students and faculty members to upgrade their skills in allied industries.

2. Grant access to the industry its facilities as and when required with prior approval

3. Voluntarily Support research efforts in exploring new ideas.

4. Initiate and support exchange of human resource on case to case basis.

Article 5: Duration and Termination of MoU

This MoU shall remain in force for a period of ten years commencing from the date of signing of this document. The Parties reserve the right to terminate this MoU by either party giving one month written notice to the other. Where such termination occurs, the provisions of this Memorandum shall continue to apply to ongoing activities until their completion.

Article 6: Amendments

Amendments to this MoU must be in writing and approved by the designated representatives of each party. The terms / clauses / articles in this MoU can be reviewed by mutual consent by serving one month written notice to the other party. New or amended terms / clauses / articles may be agreed as part of a renewed MoU.

Article 7: Statement of Intent

Nothing in this MoU shall be construed to as creating any legal relationships between The Parties. This MoU is a statement of intent to foster genuine and mutually beneficial collaboration.

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Uday Gu	jar Foundat	ion	A	TT. INP
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Prof. Dr. S.B.Patil Principal- RD's SCSCOE, Dhangwadi

Shri Chhatran Dhangawam, Fune-412206 Date: Stamp:

Gat No. 237, Pune bangalore High-way, Dhangawadi, Tal. Bhor, DIst.- Pune. Pin- 412206. (M.S.) India Telefax. : 02113-282456 / 556 / 656 Email : scscoe@gmail.com/ principal@rajgad.edu.in Website : www.rajgad.org.in

	ТМ
	JOB BUZZER
	Job site where Recruiters connect to Jobseekers Contact us: +91 9881014410 Mail us : info@jobbuzzer.in, Web site - http://www.jobbuzzer.in
	MEMORANDUM OF UNDERSTANDING
(Here	e in after referred to as 'MOU') is made on the 16th day of Jane 979 year 2023. BETWEEN
(Colle	ege Name) RD's Skari Chattirapati Shivojraje College of Enggineering. Dhongawadi, Bhor Pune.
	gnized by Principal Dr. S. B. Patil.
& Aff	iliated to University,
Repre	esented by Its Principal Dr. G. B. Patil.
Havin	ng registered office RDTC, Bhor, Pune.
Phone	e:+91
	address: principal@rajgad.edu.in
Herei	inafter called as PARTY-I.
AND	JOB BUZZER

JOBBUZZER (power by Nexus Placement and Manpower services)

Represented by its Founder and C.E.O Mr. Santosh dhondiba dhamal, having

Registered office : Office No 7, Yash Sankul, Beside HDFC Bank, On Pune Bangalore Highway, Shirwal, Dist. - Satara Pin 412801 ,Maharashtra , India.

Another Office: At Kesurdi, Tal-Khandala, Dist.-Satara, and Pin- 412801, Maharashtra.

Phone: +91-98810 14410, Email Id: Info@jobbuzzer.in website: www.jobbuzzer.in

Hereinafter called as PARTY-II.

WHEREAS

- A. To provide online platform or app to the jobseekers on www.jobbuzzer.in including 24*7 online profiles to attract companies, Inviting companies and other entities to view users profiles online and providing access to them.
- B. Job buzzer dedicated corporate sales team will endeavor to help in making available opportunities from companies as well as small & medium enterprises.
- C. To provide awareness through various means thereby resulting into increased chances of employment of user.
- D. Party-I and Party-II wish to co-operate to promote, facilitate and implement cooperation in the programs and activities.
- E. Party-II wants to promote job buzzer at the College website and social media app with Party-I and Party-I will allow Party-II an official platform for promotion of an app and ask all students to download and use it.
- F. **Party–I** will not allow any other third party job board or portal or website or app while MOU is in effect.
- G. Party-II will not sale or distribute sensitive data of college students unless individual user consent is taken. If individual user agrees to share any part of their data to companies related to its job openings, Party-I will not have any further objection.
- H. Party–II will show relevant advertisements to app users such as sports, traininghubs, fashion, brands, and stationeries, Pens, Shoes, and Personal Hygiene and related to young crowed demand Party–I will not any objections regarding them.



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- Party–II will send direct job opening related notifications to jobseekers and there
 will be no intervention from party I or permission necessity.
- J. Party –II will not charge party –I for any sort of features provided by Party-II, unless Party-I wants any custom feature to be integrated with app related to their college by mutual understanding by both.
- K. Party-II takes direct responsibility of app user's support with dedicated service numbers availability.
- L. Party –II will make college reviews ratings and users testimonials public. And Party-I will not have any objections regarding same.

ACTION PLAN:

1) A Committee shall be formed under the joint leadership of both Party-I and Party-II, which shall maintain Minutes of Meeting.

2) The institute shall designate a liaison officer to develop and co-ordinate the specific activities agreed upon.

3) The committee shall meet quarterly or as per need, to plan activities, obtain internal approvals in case costs are involved & take them to satisfactory conclusion.

4) Joint Certification: At the time of any joint exercise, the participant will be issued a certificate of merit duly signed by Party-I and Party-II.

TERMS and CONDITIONS:

BISUZZE

1) The purpose of this MOU is only to express the intentions of the party and is not intended to be legally bound on either parties.

2) The terms of co-operation for each specific activity contemplated under this MOU including costs involved shall be mutually discussed and agreed upon in writing by both parties prior to the initiation of that activity.

3) This MOU imposes no financial obligations on either party.

4) Each party recognizes that the other party has, may have or will have arrangements of a similar or different nature with other institutions.

3

DTE: 632

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5) Each party shall keep confidential any information that it receives from the other party. Publication of any material that is jointly developed by the two institutes will be considered as confidential and will not be shared in any public forum or with any third party, without prior consent/ approval of the other in writing, obtained from the authorized signatory. 6) This MOU shall remain in effect for the period of 5 years from the date of its execution by both parties. Either party may terminate this MOU by giving calendar 30 days' notice in writing to other party.

7) The terms of co-operation may be extended beyond the terms mentioned in this MOU, on the basis of discussion & upon mutual agreement.

8) Dispute Resolution: Any disputes and differences with respect to or in relation with this MOU shall be settled by mutual discussions of the Institutes within a period of 30 days. In case parties fails to amicably settle the disputes or differences within the aforesaid period, this MOU shall stand terminated.

Miscellaneous Provisions:

1. The Memorandum of understanding IMOU) as outlined in this document is not intended to be a legally binding document. Rather, it is meant to describe the nature and cooperative intentions of institute and service provider to suggest guidelines for cooperation. Nothing, therefore, shall diminish the full autonomy of either party, nor any constraints be imposed by either party upon the each other, and nothing in this Agreement shall be deemed to create a partnership, joint venture, or agency relationship between the parties.

2. The use of the name, logo and/or official emblem of any of the parties on any publication, document and/or paper is allowed only, after seeking explicit prior permission in writing by either party.

3. The Memorandum of understanding or any part thereof may be amended at any time during its tenure only by consent in writing of the parties.

4. Through this Memorandum of Understanding party-1 and party-2 affirm their commitment to fulfil and achieve the objectives mutually agreed upon in this Memorandum of understanding.

5. The Memorandum of Understanding is not intended to create any legal relation of employeremployee or of principal and agent amongst the parties.

AMENDMENTS:

DTE: 6324

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- This MOU may only be amended by mutual agreement evidenced in writing by a duly authorized representative from each of Party- I and Party- II.
- In witness thereof, Party- I and Party- II have caused this Memorandum of Understanding to be executed by their duly authorized representatives, on the date, month and year hereinabove mentioned.

4

JOB BUZZE

This MOU is a statement of intent to foster genuine and mutually beneficial co-operation.



MEMORANDUM OF UNDERSTANDING

Between

Rajgad Dyanpeeth's Technical Campus Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune Department of Civil Engineering



AND

Vastu Tech, Construction and Vastushastra, Bhor, Pune, Maharashtra -412206



Date: 2/12/2022

Ref No. RD/SCSCOE/Guil/2022-23/113

PREAMBLE:

RDTC is established in year 2009 in order to achieve excellence of students in the field of science and technology. It is approved by AICTE, New Delhi and Government of Maharashtra and is affiliated to the Savitribai Phule Pune University.

The Institutes have state of the art infrastructure appropriate to conduct engineering education. RDTC'S SCSCOE runs 04 UG programs. The Department of Civil Engineering of RDTC's SCSCOE Dhangawadi, Bhor is established in 2009 with an intake of 60 students. It has experienced faculty Engaged in teaching and research. Laboratories of all the departments are well equipped with modern equipment's and experimental setups. Besides conventional teaching, college puts special emphasis on ebased learning, subject-oriented advanced inputs.

The goal of the Civil Engineering Department is to train the students to face the challenges of ever changing technology and maintaining high ethical and moral standards. The departmental advisory committees consisting of well-known academicians and experts from industry guide the departments in their academic activities. The students' chapters established in the departments provide professional touch to the education. The department organizes the workshops and seminars on advance technology for the UG students.

The Agreement is signed between,

Whereas, Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangwadi, Tal: Bhor, Dist: Pune, Maharashtra 412206, (Hence forth referred as **Party 1**)

AND

Whereas, Vastu Tech, Civil Engg & Vastu Expert, Bhor, Pune, Maharashtra -412206, (Hence forth referred as Party 2)

Whereas, both party no. 1 and party no. 2 are interested to develop the knowledge of advances in concrete technology in all respect at student's study level, which are helpful personally to students and future quality improvement.

Whereas, both parties have decided to agree to establish industry-academic collaboration in the areas of mutual interest and in accordance with terms and conditions set forth in this memorandum of understanding (MOU).



Objective of MOU:

- To strengthen the industry-institute interaction to provide high quality and up to date technology supports and value added programs to the Engineering students, Masons and Contractors practicing on sites.
- 2. To establish common platform between Company and Institute to plan and execute activities for the development of Industrial Institute interaction.
- Planning and utilizing resource like staff and infrastructure for joint R&D works, industry based joint consultancy work.
- 4. Sharing of latest Technical trends in Educational and Industrial field.
- 5. To get exposure and training to student under the supervision of industry experts.
- 6. To get access of the trained engineers.

AGREEMENTS OF MOU:

Both Party 1 and Party 2 shall encourage interaction between the engineers, research fellows, faculty members and students through following arrangements.

1. Party 2 - shall share their knowledge and experience by way of joint conferences and seminars/workshops.

2. Party 2 - agrees to provide all documents like brochures, leaflets, CD, DVD and their devices (computer etc.) including lecturers, skilled staff, helping staff, for above activity.

3. Party 1 - agrees to provide audio-visual projector and screen facility and appropriate seminar hall, inclusive of required electrical devices and supply system etc.

4. Party 2 - agrees to provide material and tool tackles, which are necessary for demo, and practical.

5. Party 2 - agrees to conduct above mentioned programs in campus of Rajgad Dnyanpeeth Technical Campus, Shri Chhatrapati Shivajiraje College of Engineering, Dhangwadi, Tal: Bhor, Dist: Pune, Maharashtra 412206.

6. Party 1 - agrees to provide open space, covered space, electricity, water, and washroom facilities as per requirements and institutional working days and time.

7. Party 2- may seek assistance/guidance of Party 1 faculty members in technical or any trouble shoot issues.

FINANCIAL ARRANGEMENTS:

1. The collaborative program between Party 1 and Party 2 shall be coordinated by a coordination committee appointed by Directors of both Institute (Parties).

2. Financial arrangements for each specific collaboration will be decided enclase to care basis and brought on record in each case after due approval from heads of both institution? (Parties).

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INTELLECTUAL PROPERTY RIGHTS:

Rights regarding publications, patents, royalty, ownership of software/design/product developed under scope of MOU shall be decided by two parties by mutual consent.

CONFIDENTIALITY:

Both the parties agree to hold in confidence all information/data which is obtained from either side or created during the performance of MOU and will not disclose the same to any third party without written consent of other side.

COORDINATORS:

Both sides will designate persons who will have responsibility for coordination and implementation of this agreement.

DURATION OF MOU:

This MOU will take effect from the date it is signed by the representatives of the parties, This MOU is binding on both parties for the duration of Ten academic year,2021-22, 2022-23, 2023-24,2024-25,2025-26,2026-27,2027-28,2028-29,2029-2030,2031-2032.

Either party may terminate the MOU by giving 1 month's written advance notice to the other party, once terminated neither Party 1 or Party 2 will be responsible for any losses, financial or otherwise, which the other party may suffer. This MOU is signed subjective approval of representatives of both the parties' academic/administrative bodies.

SCHEDULE FOR ACTIVITIES:

Various activities to achieve the objectives of MOU mentioned, will be conducted as per mutual convenience of both parties with minimum 15 days of advance planning.

