



1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process.

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Vision and Mission of Institute

VISION

- To emerge as an institute of academic excellence and creating technocrats with professional skills & human values.

MISSION

- To provide, nurture and maintain an environment of high academic excellence.
- To inculcate research and entrepreneurship skills among students.
- To develop the soft skills and professional skills among students which will prepare them to face global challenges.
- To imbibe the ethical and moral values among students so as to make them capable of handling social problems.


Principal

Swaminarayan Siddhanta Institute
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Departmental Vision & Mission

VISION

- To provide engineering education in the field of Computer Engineering with evolving technologies and to produce self-motivated, employable individuals to the society.

MISSION

- To provide a strong theoretical and practical background across the Computer Engineering discipline with an emphasis on software development.
- To strengthen the core competence in Computer Engineering and through analytical learning.
- To inculcate problem solving and team building skills and promote lifelong learning with a sense of societal and ethical responsibilities.


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Sarvasiddhanta Education Society's

Swaminarayan Siddhanta Institute of Technology

Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University

Nagpur-Katol Highway Road, Khapri (Kothe),

Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Civil Engineering



VISION AND MISSION OF DEPARTMENT

VISION:

- To bring out civil engineers with high technical proficiency and promotes high-end research to meet the present and future challenges in civil engineering.

MISSION:

- To develop highly competent professionals, preparing them for entry-level positions in civil engineering, further study in college, life-long learning, and societal leadership.
- To providing a dynamic learning environment that emphasizes open-ended design, problem-solving skills, team work, communication, and leadership skills.
- To make the centre of excellence in field of civil engineering and allied research.


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Sarvasiddhanta Education Society's

Swaminarayan Siddhanta Institute of Technology

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Nagpur-Katol Highway Road, Khapri (Kothe),

Tal: Kalmeshwar, Nagpur, Maharastra-441501

Department of Electronics and Telecommunication Engineering



VISION AND MISSION OF DEPARTMENT

VISION:

To provide quality education in the field of Electronics and Telecommunication Engineering and to develop technocrats with problem solving skills, leadership qualities, interpersonal skills, strategic designing, professional ethics and moral values.

MISSION:

- To promote research activities among students and faculty members.
- To offer healthy learning culture to students, faculty and staff members for developing excellent engineers.
- To impart in depth knowledge in the field of Electronics and Telecommunication Engineering according to recent and future requirement of society.
- To create technically sound engineers with spirit of teamwork and professionally responsible citizens.


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VISION AND MISSION OF DEPARTMENT

VISION

- To develop technically skilled Mechanical Engineers for Socio-Economical growth of the Society.

MISSION

- To provide an education that builds within students a solid foundation in mechanical engineering principles.
- To impart quality technical education to the students to create competitive mechanical engineers.
- To provide expertise at various micro and macro level industrial training in core area.
- To imbibe ethical values among the students to make them capable of handling societal problems.


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Program Educational Objective (PEOs)

PEO1: To prepare students with a strong foundation in mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze Computer Engineering problems.

PEO2: To enable student to be competent professional with excellent knowledge of Computer Engineering to pursue variety of careers and higher education.

PEO3: To develop lifelong learning, professionals and ethical attitude for embracing global challenges and make positive impact on environment society

Program Specific Outcome (PSOs)

PSO1: The Computer Engineering graduates will able to apply mathematical and scientific skills in numerous areas of Computer Engineering to design and develop software-based systems.

PSO2: The Computer Engineering graduates will able to promote novel applications that meet the needs of entrepreneur, environmental and social issues.

PSO3: The Computer Engineering graduates will able to exhibit attitude for continuous learning to deliver efficient solutions for emerging challenges in the computation domain.

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Subject: Data Structures (BECME404T)

Semester: B.Tech 4th (Computer Engg.)

Course Outcomes

COs	Outcomes
CO1	Understand the basic concept of data structures and time complexity.
CO2	Solve the problems and demonstrate using searching and sorting algorithms using programming language.
CO3	For given problem of stack and queues implement it and analyze the same to determine the time and computation complexity.
CO4	Classify & demonstrate the use of different data structures like linked list, trees & graphs along with related algorithms.
CO5	Infer the use of symbol tables for hashing and collision resolution.


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RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

(Established by Government of Central Provinces & Berar, Department of Education (No. 311, dated 1st of August, 1925 & provisionally a State University governed by Maharashtra Public Universities Act, 2010/Maharashtra Act No. VI of 2011)
(Academic Section)

Academic Section, Rashtrasant Tukadoji Maharaj Nagpur University, Jansal Rajar Administrative Building, Mahatma Jansal
Public Educational Premises, Campus Square or Ambazari T-Point Road, Nagpur-440033

No. Acad./Acad. Cal. /2023/ 329

Date: 25/07/2023

NOTIFICATION

It is notified for general information of all the University conducted/ constituent/ affiliated colleges that the Academic Calendar for the session 2023-24 will be as under:

ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER & ANNUAL PATTERN FOR SESSION 2023-24.

1. **Terms & Vacation**
 - First Term (Odd semesters & Annual Pattern) : 16.06.2023 to 31.10.2023
 - Winter Vacation : 01.11.2023 to 30.11.2023
 - Second Term (Even semesters & Annual Pattern) : 01.12.2023 to 30.04.2024
 - Summer Vacation : 02.05.2024 to 15.06.2024
 2. **Admissions**
 - a) Last date of Admission (First term odd sem. & First Year Annual Pattern) : 7th August, 2023
 - b) Last date for Admission with prior permission of the Vice-Chancellor : 7th September, 2023
 3. **Last date of submission of Enrolment forms to the university** : Within fifteen days from the notified last date of Admission
 4. **Examination**
 - A. **Winter Examinations.**
 1. **Commencement of Exam.**
 - a) Failure Students in even semesters
 - b) Regular students in odd semesters
 - c) Failure students in Annual Pattern
 2. **Last date for receipt of exams. forms**
 - a) Regular students : 31.08.2023
 - b) Old Ex-Students : (for admission other than 1st year) 31.08.2023
 - c) Ex-Students of immediately previous examination : Within 15 days from the date of declaration of the result of summer Exams.
 - B. **Summer Exams.**
 1. **Commencement of Exams.**
 - a) Failure students of odd semester
 - b) Regular students of Even semester
 - c) Failure & Regular students of Annual Pattern
 2. **Last date for receipt of examinations forms**
 - a) Regular Students : 15.03.2024
 - b) Old Ex-Students : 15.02.2024
 - c) Ex-Students of immediately previous exam : 15.02.2024
5. **Declaration of Results** : Within 15 days from the date of declaration of the result of winter Exams.
6. **Convocation Winter 2022 & Summer 2023** : As per governing provisions of the Act.

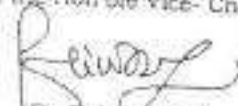
Principal

Swaminarayan Shiksha Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501

Special Instructions :


1. The Principals/Heads of the institutions are authorized to ask teachers to attend classes during vacation for extra released work, if needed.
2. The Principals/ Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
3. Students admitted after the last date as specified above shall not be considered for admission in the University and fee/other shall not be permitted to appear at the university examinations.
4. All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year.
5. Theory and Practical examinations may be held on Sunday with prior permission and intimation.
6. If necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
7. All efforts should be made to achieve more than 180 hrs (including in Annual Pattern) and 90 days per Semester in Semester Pattern.
8. This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process. The last date for admissions in higher level semesters shall be 10 days after results of qualifying examinations.
9. Therefore, the last date of admissions for all courses where centralized admission process is adopted shall be notified separately.
10. The last date of examination forms for CAP round admission will be 15 days from the last date of admissions.
11. In case admissions governed by **Conditional Eligibility** the last date for submission of examination form shall be within 10 days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27 of 2008 and 6 of 2010.

By Order of the Hon'ble Vice-Chancellor


(Dr. Raju Hivase)
Registrar

Copy forwarded for information and necessary action to :-

1. P.A. to Hon'ble Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
2. P.A. to Hon'ble Pro-Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
3. P.A. to Registrar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. The Principals of all Colleges / Head of the Post- Graduate Teaching Departments of the Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur
5. All Officers of the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
6. The Registrar of All Universities in the Maharashtra State.
7. Dr. Prashant Maheswary, Dean, Faculty of Science & Technology and Director, Multi-Facility Computer Centre, RTM, Nagpur University, Nagpur.
8. The Editor, All local News Papers. They are requested to kindly publish the above Notification in their esteemed News Paper as a News Item.


(Dr. Rajendra Likhede)
Deputy Registrar (Acad.)


Principal
Swaminarayan Siddhanta Institute
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Dist. Nagpur-441501



ACADEMIC CALENDAR FOR THE SESSION 2023-2024

Sr. No.	Description	Date	
		From	To
1	Start / End of odd term (UG)	10-07-2023	31-10-2023
2	Start / End of odd term (PG)	24-07-2023	31-10-2023
3	Teaching Session (UG)	10-07-2023	07-10-2023
4	Teaching Session (PG)	24-07-2023	13-10-2023
5	Admissions : Last date of Admission UG & PG	07-09-2023	
6	Last date of Enrollment forms	22-09-2023	
7	First Sessional Test	21-08-2023	26-08-2023
8	Second Sessional Test	11-09-2023	16-09-2023
9	PUT	02-10-2023	07-10-2023
10	Exam Forms		
	1. Regular Students UG & PG	31-08-2023	
	2. Old Ex-Students	31-08-2023	
	3. Ex-Students	Within 15 days from the date of declaration of the result of summer exams.	
11	Start of Odd Term Examination		
	Winter Examinations for regular (UG)	16-10-2023	
	Winter Examinations for regular (PG)	16-10-2023	
	Winter Examinations for Backlog (UG)	16-10-2023	
	Winter Examinations for Backlog (PG)	16-10-2023	
12	Start / End of Even term (UG)	01-12-2023	30-04-2024
13	Start / End of Even term (PG)	01-12-2023	30-04-2024
14	Teaching Session	01-12-2023	09-03-2024
15	Annual Cultural Events	29-01-2024	03-02-2024
16	First Sessional Test	08-01-2024	13-01-2024
17	Second Sessional Test	12-02-2024	17-02-2024
18	PUT	04-03-2024	09-03-2024
19	Exam Forms		
	4. Regular Students UG & PG	15-02-2024	
	5. Old Ex-Students	15-02-2024	
	6. Ex-Students	Within 15 days from the date of declaration of the result of winter exams.	
20	Start of Even Term Examination		
	Summer Examinations for regular (UG)	15-03-2024	
	Summer Examinations for regular (PG)	15-03-2024	
	Summer Examinations for Backlog (UG)	15-03-2024	
	Summer Examinations for Backlog (PG)	15-03-2024	
21	Declaration of Result	As per governing provisions of the act.	

Instructions:

1. The course teacher should complete the curriculum in prescribed academic schedule.
2. All HOD should take a constant review of the course plan.
3. Extra lectures should be arranged on regular basis as and when required.
4. All Government and other holidays are calculated on the basis of last year statistics. It is likely to be same except small variations after the declaration by the Government / Authorities. The schedule of such holidays will be separate notified by the University at the beginning of calendar.
5. Theory and Practical examinations may be held on Sunday with prior permission and intimation.
6. All efforts should be made to achieve more than 180 teaching days in Annual pattern and 90 days per semester in semester pattern

Yograj
Institutional Academic I/c

Prasad
Dean Academics

Prasad
Principal
Swaminarayan Siddhanta Institute
of Technology, Kaimeshwar,
Dist. Nagpur-441501

- Copy to-
- 1) Principal
 - 2) Dean Academics
 - 3) IQAC Co-ordinator
 - 4) HODs (CS/ETC/ME/CE/FY/TP)
 - 5) Administrative office
 - 6) Circulation among staff members
 - 7) Concerned Faculties
 - 8) All Notice Board

Prasad
Principal
Swaminarayan Siddhanta Institute
of Technology, Kaimeshwar,
Dist. Nagpur-441501



B.TECH DEPARTMENTAL ACADEMIC CALENDAR

SESSION: 2023-24

TERM: ODD (WINTER -2023)

Sr. No.	Activity	Tentative Date
1.	Principal Meeting Odd Term Commencement	19/06/2023
2.	Time Table Display	23/06/2023
3.	Commencement of Odd Term	10/07/2023
4.	Mega Project Topic Finalization	28/07/2023
5.	Mega Project Introductory Seminar on Power Point Presentation (01)	12/08/2023
6.	Soft Skill Development Program	3 rd Week of August 2023
7.	Attendance Review I Syllabus Review I Feedback Review I	14/08/2023
8.	Submission of Assignment No. 1	17/08/2023 to 19/08/2023
9.	Sessional Exam No. 1	17/08/2023 to 23/08/2023
10.	Student Technical Activity/Workshop/ Guest Lecture	24/08/2023 to 26/08/2023
11.	Academic Monitoring no. 1	28/08/2023
12.	Remedial Coaching Started From	29/08/2023
13.	Mega Project Progress Seminar on Power Point Presentation (02)	11/09/2023
14.	Attendance Review II Syllabus Review II Feedback Review II	18/09/2023
15.	Submission of Assignment no. 2	18/09/2023 to 21/09/2023
16.	Sessional Exam No. 2	18/09/2023 to 23/09/2023


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 Dist. Nagpur-441501



17.	Departmental Event	4 th Week of September 2023
18.	Mega Project Progress Seminar on Power Point Presentation (03)	30/09/2023
19.	Submission of Assignment no. 3	09/10/2023 to 12/10/2023
20.	Student Industrial Visit	2 nd week of October
21.	End of Odd Term	16/10/2023
22.	Final Attendance Review III Final Syllabus Review III Final Feedback Review III	17/10/2023
23.	Final Academic Monitoring no. 2	18/10/2023
24.	Pre University Test	23/10/2023 to 28/10/2023
25.	Final Presentation on Mega Project (04)	30/10/2023
26.	Final Submission of Term Work	30/10/2023
27.	Tentative RTMNU Practical Exam	Last Week of October
28.	Tentative RTMNU Theory Exam	Last Week of October
29.	Next Semester Will Begin From	1 st December 2023

Copy to:-

- 1) The Principal
- 2) IQAC Coordinator
- 3) Dean Academics
- 4) Circulation among Teaching Staff
- 5) Circulation among Students
- 6) Notice Board


 HOD
 HEAD

Dept. of Computer Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur


 Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501



Date:-15/12/2023

DEPARTMENTAL ACADEMIC CALENDAR

SESSION: 2023-24

TERM: EVEN (SUMMER-2024)

Sr. No.	Activity	Tentative Date
1	Time Table Display	Third week of December
2	Commencement of Even Term	20/12/2023
3	Time Table Display	Third week of December
4	Commencement of Even Term for VI & VIII Sem	20/12/2023
5	Value Added Course	02/01/2024 to 06/01/2024
6	Mini Project Topic Finalization	First Week January
7	Mini Project and Mega Project Seminar	Second Week January
8	Student Technical Activity/Workshop/ Guest Lecture	Second Week January
9	Departmental Meeting for syllabus Review & Attendance Record.	Fourth Week of January
10	Submission of Assignment No.1	Fourth Week of January
11	First Sessional Examination	31/01/2024 to 02/02/2024
12	Remedial Coaching Started From	05/02/2024 onwards
13	Mini Project and Mega Project Progress Seminar	Second week of February
14	Parent Teacher Meet (PTM)	Third Week of February
15	Forum Activity/Guest Lecture	Fourth Week of February
16	Submission of Assignment no. 2	Last Week of February
17	Departmental Meeting for syllabus Review & Attendance Record.	Last week of March
18	Second Sessional Examination	04/03/2024 to 06/03/2024
19	Student Industrial Visit	Second Week of March
20	Departmental Event	Third Week of March

Principal

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21	Mini Project and Mega Project Progress Seminar on Power Point Presentation	Fourth Week of March
22	Departmental Meeting for syllabus Review & Attendance Record.	Last week of March
23	Submission of Assignment no. 3	First Week of April
24	End of Even Term	08/04/2024
25	Departmental meeting for final syllabus review and feedback.	Third Week of April
26	Final Presentation on Mini Project and Mega Project	Second Week of April
27	Final Submission of Term Work	Second Week of April
28	Pre University Test	15/04/2024 to 24/04/2024
29	Tentative RTMNU Theory Exam	Last week of April
30	Tentative RTMNU Practical Exam.	Third week of May
31	Next Semester Will Begin From	1 st July 2024


HOD
HEAD

Dept. of Computer Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagp

Copy to

1. The Principal
2. IQAC Coordinator
3. The Academic Dean
4. Notice board
5. Circulate among all faculties


Principal
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Dist. Nagpur-441501



Ref. No: SSIT/CE/2023-24/EVEN/17

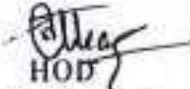
Date: 14/12/2023

NOTICE

All the faculty members of Computer Engineering Department are hereby informed that the departmental meeting is scheduled on 16/12/2023 at 02 P.M. in HOD cabin.

Agenda of Meeting

1. Even Semester Planning.
2. Time Table Preparation.
3. Subject allocation.


HOD
HEAD
Dept. of Computer Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur






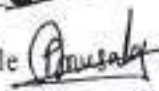
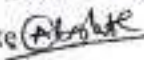
Copy to:

1. The Principal
2. IQAC coordinator
3. Dean Academics
4. All the teaching staff


Principal
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Dist. Nagpur-441501




Date: 16/12/2023

Presided by: - Ms. Shraddha Gawalkar 
In attendance: - Ms. Tejal Hirekhan 
Ms. Kalyani Deshmukh 
Ms. Vaishnavi Vohra 
Ms. Prachi Bhure 
Ms. Pratiksha Musale 
Ms. Ashwini Borkute 

MINUTES OF MEETING

1. The Head of Department started the meeting by briefly explaining the purpose of the meeting.
2. Discussion with faculties about the session plan.
3. Discussion regarding the strategy of performance improvement of student.
4. Subject allocation is done by HOD as per the preference given by faculties.
5. Instruction regarding to prepare teaching plan and practical plan.
6. Time table and work load distribution are done in the meeting.
7. Discussion on queries of faculties regarding the session.
8. Conduction of classes theory /practical as per time table.
9. Seating should be neat and clean.
10. Theory lecture should not be conducted in lab.
11. Laboratory allotted to the respective faculties as per subject allotted.
12. Work distributed to all the faculties related Institutional and Departmental.


HOD
HEAD

Dept. of Computer Engg.
Swaminarayan Siddhanta Institute
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NOTE: Circulation among all staff members


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Dist. Nagpur-441501



SESSION 2023-24
LOAD DISTRIBUTION (EVEN SEMESTER)

Sr.No	Name of Faculty	Subject Allotted	Semester	Teaching Load			Total
				TH	TU	PR	
1	Ms. Tejal Hirekhan	WT	IV	03	---	---	13
		WT-LAB	IV	---	---	02	
		TCP/IP	VI	03	---	---	
		TCP/IP-LAB	VI	---	---	02	
2	Ms. Shraddha Gawalkar	CC	VIII	03	---	---	09
		DS	IV	03	01	---	
		DS-LAB	IV	---	---	02	
3	Ms. Prachi Bhure	RL	VIII	03	---	---	17
		OS	IV	03	---	---	
		OS-LAB	IV	---	---	02	
4	Ms. Kalyani Deshmukh	PWP-II	VIII	---	---	12	12
		Micro Project/Internship	IV	---	---	02	
		ET-LAB	VI	---	---	02	
		DAA	VI	03	---	---	
5	Ms. Vaishnavi Vohra	DAA-LAB	VI	---	---	02	12
		ML	VI	03	---	---	
		SP	IV	03	---	---	
6	Ms. Pratiksha Musale	IOT	VI	03	---	---	06
		Mini Project	VI	---	---	06	
7	Ms. Ashwini Borkute	CAO	IV	03	---	---	06
		CE(OE)	VI	02	01	---	
8	Mr. Abhijit Nair	DMGT	IV	03	01	---	04
		CA	IV	02	---	---	02

[Signature]
HOD
HEAD

Dept. of Computer Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur

Copy to :-

- 1) The Principal
- 2) IQAC Coordinator
- 3) Dean Academics

[Signature]
Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501



ACADEMIC SESSION 2023-24

Date: 01/07/2023

COMPUTER DEPARTMENT TIME TABLE WINTER- 2023

DAY	SEM	9.45AM TO 10.45AM	10.45AM TO 11.45AM	11.45AM TO 12.45PM	12.45PM TO 1.15PM	1.15PM TO 2.15PM	2.15PM TO 3.15PM	3.15PM TO 4.15PM	
MONDAY	B.Tech 3 rd CE	TOC	OOP	M-III	RECESS	UHV	M-III	ICN	
	B.Tech. 5 th CE	DBMS	CG	AI		HETC	JAVA LAB		
	B.Tech. 7 th CE	CNS	ST	JCUP		IST	CNS LAB		
TUESDAY	B.Tech 3 rd CE	ICN	OOP	DCFM		M-III	OOP-LAB		
	B.Tech. 5 th CE	DBMS	CG	AI		AI	CG LAB		
	B.Tech. 7 th CE	CNS	ST	JCUP		IST	REPORT WRITING ACTIVITY		
WEDNESDAY	B.Tech 3 rd CE	ICN	TOC	OOP		DCFM	TOC	M-III	
	B.Tech. 5 th CE	DBMS	CG	HETC		JAVA	DBMS LAB		
	B.Tech. 7 th CE	CNS	ST	JCUP		IST	PROJECT WORK PHASE-I		
THURSDAY	B.Tech 3 rd CE	ICN	OOP	M-III		DCFM	CW-I LAB		
	B.Tech. 5 th CE	DBMS	JAVA	HETC		JAVA	CG	DBMS	
	B.Tech. 7 th CE	CNS	ST	JCUP		IST	PROJECT WORK PHASE-I		
FRIDAY	B.Tech 3 rd CE	UHV	OOP	DCFM		TOC	DCFM-LAB		
	B.Tech. 5 th CE	HETC	JAVA	AI		AI	CG	JAVA	
	B.Tech. 7 th CE	CNS	ST	IST		JCUP	PROJECT SEMINAR		
SATURDAY	B.Tech 3 rd CE	ENVIRONMENTAL SCIENCE				EXTRA CURRICULAR ACTIVITY SESSION			
	B.Tech. 5 th CE	YOGA & MEDITATION							
	B.Tech. 7 th CE	PROJECT SEMINAR							
B.Tech. 3rd CE		B.Tech. 5th CE			B.Tech. 7th CE				
OOP	Ms. Ashvini Bais	DBMS	Mr. Shyam Dubey	CNS	Ms. Ashvini Bais				
M-III	Ms. Sanjukta Ash	CG	Ms. Shaziya Ansari	ST	Ms. Prachi Bhure				
TOC	Ms. Mamta Kumari	JAVA	Ms. Tejal Hirekhan	IST	Mr. Shyam Dubey				
ICN	Ms. Shaziya Ansari	AI	Ms. Prachi Bhure	JCUP	Ms. Tejal Hirekhan				
DCFM	Ms. Mrunali Bhaisare	DBMS LAB	Mr. Shyam Dubey	PWP-I	Ms. Prachi Bhure				
UHV	Ms. Tejal Hirekhan	CG LAB	Ms. Shaziya Ansari	RWA	Ms. Tejal Hirekhan				
C-LAB-I	Ms. Ashvini Bais	JAVA LAB	Ms. Tejal Hirekhan						
DCFM-LAB	Ms. Mrunali Bhaisare	HETC	Mr. R. Kadkar						
OOP LAB	Ms. Ashvini Bais	Y & M	NSS Dept.						
EVS	Mr. Nakul Shenode								

Tejal
 Time Table Incharge

Copy to:-

- 1) The Principal
- 2) IQAC Coordinator
- 3) Dean Academic
- 4) Circulation among Students & Teaching Staff
- 5) Notice Board

Prachi
 H.O.D
 HEAD
 Dept. of Computer Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur

Prachi
 Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501



ACADEMIC SESSION 2023-24

COMPUTER DEPARTMENT TIME TABLE SUMMER- 2024

DAY/TIME	SEMESTER	9.45-10.45	10.45-11.45	11.45-12.45	12.45-1.15	1.15-2.15	2.15-3.15	3.15-4.15
MONDAY	B.Tech 4 th Sem	DMGT	SP	OS	RECESS	DS	DS	CAO
	B.Tech 6 th Sem	DAA	TCP/IP	ML		IOT	DAA - LAB	
	B.Tech 8 th Sem	RL	MOOCS/NPTEL	LIBRARY		MOOCS/NPTEL	PWP-II	
TUESDAY	B.Tech 4 th Sem	DMGT	WT	OS		CAO	DS-LAB	
	B.Tech 6 th Sem	DAA	IOT	TCP/IP		ML	TCP/IP LAB	
	B.Tech 8 th Sem	CC	RL	MOOCS/NPTEL		MOOCS/NPTEL	PWP-II	
WEDNESDAY	B.Tech 4 th Sem	DMGT	WT	CAO		DS	WT-LAB	
	B.Tech 6 th Sem	DAA	IOT	TCP/IP		ML	PRESENTATION	
	B.Tech 8 th Sem	CC	RL	MOOCS/NPTEL		MOOCS/NPTEL	PWP-II	
THURSDAY	B.Tech 4 th Sem	DMGT	SP	WT		CA	OS-LAB	
	B.Tech 6 th Sem	CE	LIBRARY	PRESENTATION		CE	MINI PROJECT	
	B.Tech 8 th Sem	RL	MOOCS/NPTEL	LIBRARY		MOOCS/NPTEL	PWP-II	
FRIDAY	B.Tech 4 th Sem	SP	DS	OS	CA	SPORTS/LIBRARY		
	B.Tech 6 th Sem	CE	IOT	ET-LAB	DAA			
	B.Tech 8 th Sem	MOOCS/NPTEL	PWP-II	CC	PWP-II			
SATURDAY	B.Tech 4 th Sem	MICRO PROJECT			T&P	EXTRA CURRICULAR ACTIVITY SESSION		
	B.Tech 6 th Sem	MINI PROJECT						
	B.Tech 8 th Sem	PROJECT WORK PHASE-II						

B.Tech 4th CE		B.Tech 6th CE		B.Tech 8th CE	
DMGT	Ms. Ashwini Borkute	DAA	Ms. Kalyani Deshmukh	RL	Ms. Shraddha Gawalkar
WT	Ms. Tejal Hirekhan	TCP/IP	Ms. Tejal Hirekhan	CC	Ms. Tejal Hirekhan
OS	Ms. Prachi Bhure	IOT	Ms. Vaishnavi Vohra	PWP-II	Ms. Prachi Bhure
DS	Ms. Shraddha Gawalkar	ML	Ms. Kalyani Deshmukh		
CAO	Ms. Pratiksha Musale	CE(OE-I)	Ms. Pratiksha Musale		
SP	Ms. Vaishnavi Vohra	DAA LAB	Ms. Kalyani Deshmukh		
WT-LAB	Ms. Tejal Hirekhan	TCP/IP LAB	Ms. Tejal Hirekhan		
OS-LAB	Ms. Prachi Bhure	ET LAB	Ms. Kalyani Deshmukh		
DS-LAB	Ms. Shraddha Gawalkar	MINI PROJECT	Ms. Vaishnavi Vohra		
CA	Mr. Abhijit Nair				
MICRO PROJECT	Ms. Kalyani Deshmukh				

Red
 Time Table Incharge
 Copy to -

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- 3) Dean Academic
- 4) Circulation among Students & Teaching Staff
- 5) Departmental Notice Board

Shraddha
 H.O.D
 HEAD
 Dept. of Computer Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur

Principal
 Principal
 Swaminarayan Siddhanta Institute
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 Dist. Nagpur-441501



ACADEMIC SESSION 2023-24

COMPUTER DEPARTMENT TIME TABLE SUMMER- 2024

DAY/TIME	SEMISTER	9.45-10.45	10.45-11.45	11.45-12.45	12.45-1.15	1.15-2.15	2.15-3.15	3.15-4.15
MONDAY	B.Tech 4 th Sem	DMGT	SP	OS	RECESS	DS	DS	CAO
TUESDAY	B.Tech 4 th Sem	DMGT	WT	OS		CAO	DS-LAB	
WEDNESDAY	B.Tech 4 th Sem	DMGT	WT	CAO		DS	WT-LAB	
THURSDAY	B.Tech 4 th Sem	DMGT	SP	WT		CA	OS-LAB	
FRIDAY	B.Tech 4 th Sem	SP	DS	DS		CA	SPORTS/LIBRARY	
SATURDAY	B.Tech 4 th Sem	MICRO PROJECT				T&P	EXTRA CURRICULAR ACTIVITY SESSION	


B.Tech 4th CE	
DMGT	Ms. Ashwini Borkute
WT	Ms. Tejal Hirekhan
OS	Ms. Prachi Bhure
DS	Ms. Shradha Gawalkar
CAO	Ms. Pratishtha Musale Ms. Vaishnavi Vohra
WT-LAB	Ms. Tejal Hirekhan
OS-LAB	Ms. Prachi Bhure
DS-LAB	Ms. Shradha Gawalkar
CA	Mr. Abhjit Nair
MICRO PROJECT	Ms. Katyani Deshmukh


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- 5) Departmental Notice Board
- 6) Concerned Persons


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**HOD
 HEAD**
 Dept. of Computer Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur



Subject: Data Structures (BECME404T)
Semester: B.Tech 4th (Computer Engg.)

INDIVIDUAL TIME TABLE FOR ACADEMIC SESSION SUMMER-2024

DAY/TIME	SEMESTER	9.45-10.45	10.45-11.45	11.45-12.45	12.45-1.15	1.15-2.15	2.15-3.15	3.15-4.15
MONDAY	4 th CE				RECESS	DS	DS	
TUESDAY	4 th CE							
WEDNESDAY	4 th CE					DS		
THURSDAY	4 th CE							
FRIDAY	4 th CE		DS					
SATURDAY	4 th CE							

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**HOD
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 Dept. of Computer Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur



Subject: Data Structures (BECME404T)


Semester: B.Tech 4th(Computer Engg.)

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- Departmental Vision & Mission
- University Academic Calendar (2023-24)
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- PO, PEO, PSO & CO
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HOD
HEAD
Dept. of Computer Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur



Subject: Data Structures (BECME404T)

Semester: B.Tech 4th (Computer Engg.)

TEACHING PLAN

Unit No.	Lecture No.	Topics	Plan Date	Execute Date
1.	1.	Introduction-Concept of Data Structures	8/1/2024	8/1/2024
	2.	Time and space analysis of algorithm	10/1/2024	10/1/2024
	3.	Average, best and worst case analysis	12/1/2024	12/01/2024
	4.	Searching and sorting techniques	15/1/2024	15/1/2024
	5.	Linear search binary search	17/1/2024	17/1/2024
	6.	Indexed search, insertion sort, selection sort	19/1/2024	19/1/2024
	7.	Bubble sort, radix sort, merge sort	22/1/2024	22/1/2024
	8.	Hashing, collision resolution policies	24/1/2024	24/1/2024
	9.	Linked Lists: Simply linked list	29/1/2024	29/1/2024
	10.	Implementation of linked list using static and dynamic memory allocation	31/1/2024	31/01/2024
	11.	Operation on linked list	2/2/2024	2/2/2024
	12.	Polynomial representations and manipulations are using linked list	5/2/2024	5/2/2024

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2.	13.	Circular linked list	7/2/2024	7/2/2024
	14.	doubly linked list	9/2/2024	9/2/2024
	15.	Generalized list, sparse matrix, polynomial	12/2/2024	12/2/2024
3.	16.	Stack and Queue stack and queue	14/2/2024	14/2/2024
	17.	Array representation of stacks	16/2/2024	16/2/2024
	18.	Queues and dequeue, circular queue	21/2/2024	21/2/2024
	19.	Polish notation, implementation stack using arrays	23/2/2024	23/2/2024
	20.	Application of stack & queue	26/2/2024	26/2/2024
	21.	Conversion from infix to postfix	28/2/2024	28/2/2024
	22.	Evaluation of postfix expression, priority queues	1/3/2024	1/3/2024
4.	23.	Trees: Basic terminology, basic trees, binary tree representations	4/3/2024	4/3/2024
	24.	Thread storage representation	6/3/2024	6/3/2024
	25.	Binary tree traversals	9/3/2024	9/3/2024
	26.	Binary search tree	11/3/2024	11/3/2024

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	27.	Application of trees, preliminary treatment of AVL Trees.	13/3/2024	12/3/2024
	28.	B-trees	15/3/2024	15/3/2024
5.	29.	Graphs : Definitions & terminology	18/3/2024	18/3/2024
	30.	Graph Representation: matrix representation of graph	20/3/2024	20/3/2024
	31.	List of structure, other representation of graphs	22/3/2024	02/3/2024
	32.	Breadth first search, Depth first search	27/3/2024	27/3/2024
	33.	Spanning trees, shortest path algorithm	29/3/2024	29/3/2024
	34.	Topological sorting, critical path	1/4/2024	1/4/2024
	35.	Symbol tables: static tree tables	3/4/2024	3/4/2024
	36.	Dynamic tree tables, hash tables, hash functions.	5/4/2024	5/4/2024

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 HOD (C.E.)



Subject: Data Structures
B.Tech 4th Semester
PRACTICAL PLAN

Exp .No.	Division of Experiments	Name of Practicals	Plan Date	Execution Date
1	Array	Write a C program to find the sum of all elements in an array which are at odd position	09/01/2024	9/01/2024
2		Write a C program to reverse the array's elements.	16/01/2024	16/01/2024
3	Searching and Sorting Technique	a. Write a C program to search for a number in an array. b. Write a C program to merge two sorted array into third sorted array	23/01/2024	23/01/2024
4	Stack and Queue	Write a C program to implement a stack using array with the following operations: Push (), Pop(), Display().	30/01/2024	30/01/2024
5		Write a C program to implement a linear queue using array with the following operations: Enqueue(), Dequeue(), Display().	06/02/2024	06/02/2024
6		Write a C program to create, insert and delete a node from a singly linked list.(consider all the cases)	13/02/2024	13/02/2024
7	Linked List	Write a C program to reverse a singly linked	20/02/2024	20/02/2024
8	Sorting Technique	Write a C program to perform bubble, selection and insertion sort.	27/02/2024	27/02/2024
9		Write a C program to perform merge and quick sort.	05/03/2024	05/03/2024


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 of Technology, Kalmeshwar, Nagp



List of Guest Lecture/Expert Talks

Session 2023-24

Sr. No	Topic	Speaker	Designation	Organization	Date	Time	Faculty Incharge
1	Data Visualization	Mr. Vicky Choudhary	Assistant Professor	Priyadarshini College of Engineering	10/08/2023	12:00 pm	Mrs. Tejal Hirekhan
2	Computer Network	Prof. Pawan Raut	Assistant Professor	Guru Nanak Institute of Engineering and Technology	15/09/2023	12:00 pm	Mrs. Tejal Hirekhan
3	Cyber Security-Session on Problem Solving	Dr. Ravindra Jogetkar	Associate Professor	S.B Jain Institute of Technology, Nagpur	23/11/2023	12:00 pm	Ms. Vaishnavi Vhora
4	Ethical Hacking	Prof. Lovelesh Yadav	Vice Principal & HOD	Shri Sai College of Engineering & Technology, Chandrapur	03/02/2024	12:00 pm	Ms. Vaishnavi Vhora
5	Python form basic to advance	Mr. Kartik Ghormade	Software Developer	SoftBuzz Tech Private Limited, Nagpur	12/01/2024	12:00 pm	Ms. Vaishnavi Vhora
6	Advance Java	Mr. Sharad Bansod	Founder	SoftBuzz Tech Private Limited, Nagpur	23/02/2024	12:00 pm	Ms. Vaishnavi Vhora


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 HEAD**
 Dept. of Computer Engg
 Swaminarayan Siddhanta Instil
 of Technology, Kalmeshwar, Nag



Ref. No.:SSIT/CE/2023-24/GL/46

Date: 20/02/2024

To,
Mr. Sharad Bansod
SoftBuzz Tech Private Limited, Nagpur

Subject: Invitation for Expert Lecture on "Advance Java"

Respected Sir,

Computer Engineering Department in collaboration with IQAC, Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur is organizing Expert Lecture on "Advance Java" for Computer Engineering students on 23/02/2024 at 12.00 PM. onwards. It will be our pleasure and honor to invite you as an Expert for the expert lecture.

Details of Guest Lecture:

- Date & Time: 23/02/2024 & 12:00 PM onwards
- Mode of Conduction: **Offline**

Received Accepted
Bansod


HEAD
Dept. of Computer En,
Swaminarayan Siddhanta Ins
of Technology, Kalmeshwar, N


Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501

Swaminarayan Siddhanta Institute of Technology

College: Nagpur – Katol Highway Road, Khapri (Kothe), Tah. Kalmeshwar, Nagpur-441 501.

Email: info@ssitngp.com, Website: www.ssitngp.com



Ref No.: SSIT/CE/2023-24/GL/17

Date: 21/02/2024

NOTICE

All the students are hereby informed that Department of Computer Engineering in collaboration with IQAC & EDC is going to organize Expert Lecture on "Advance Java" on 23rd February 2024 Attendance is mandatory for everyone.


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Dept. of Computer Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur

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1. The Principal
2. IQAC Coordinator
3. Dean Academics
4. HOD (FY/CIVIL/ME/ETC)
5. Circulation among Teaching Staff of CE
6. Circulation among classes of CE
7. Departmental Notice board


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Dist. Nagpur-441501

Attendance sheet for Expert Lecture on"Advance Java"

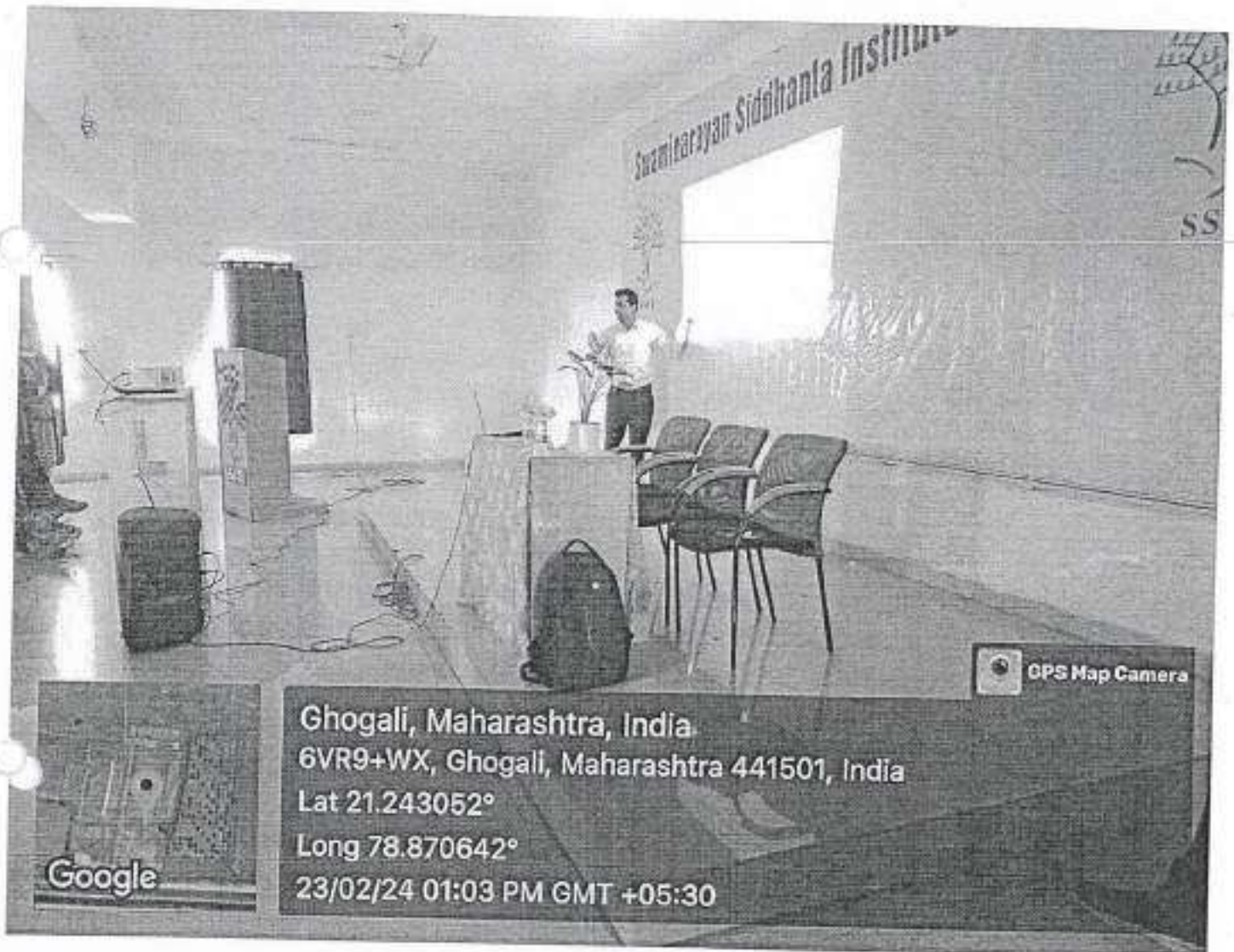
Sr. No	Name of Student	Semester	Signature
1	Umesh Shende	6th	<u>Umesh</u>
2	Yogesh Kambale	6th	<u>Yogesh Kambale...</u>
3	Vaibhav Wakte	6th	<u>Vaibhav</u>
4	Moyun Raut	6th	<u>Raut</u>
5	Shankar Sable	6th	<u>Sable</u>
6	Madan Shabare	6th	<u>Shabare</u>
7)	Umesh Shende	6th	<u>Umesh</u>
8)	Vijay Kulkarni	6th	<u>Vijay</u>
9)	Vaibhav Wakte	6th	<u>Wakte</u>
10	Yogesh Kambale	6th	<u>Kambale</u>
11)	Ashutosh Ganai	8th	<u>Ganai</u>
12)	Amruta Bagde	8th	<u>Bagde</u>
13)	Deepshree Kulkarni	8th	<u>Deepshree</u>
14)	Pooja Patil	8th	<u>Patil</u>
15)	Kajal Meshram	8th	<u>Kajal</u>
16)	Minal Jibhate	8th	<u>Minal</u>
17)	Tanvi Shrikhande	8th	<u>T.D Shrikhande</u>
18)	Abhijit Dhabale	8th	<u>Abhijit</u>
19)	Karan Raut	8th	<u>Raut</u>
14)	Purvesh Shelke	8th	<u>Shelke</u>
15)	Satish Koremore	8th	<u>Satish</u>
16)	Tanmay Bhojar	8th	<u>Bhojar</u>
17)	Swarni Shirke	8th	<u>Shirke</u>
18)	Pooja Padma	8th	<u>Padma</u>
19)	Shruti Dhore	8th	<u>Dhore</u>
20)	Yogesh Chauhan	8th	<u>Yogesh</u>

Principal




REPORT of Expert Lecture on Advance Java	
Title	"Advance Java"
Name of Activity	Expert Lecture
Date	23/02/24
Venue	Seminar Hall, SSIT College
Organized by	Computer Engineering Department
Name of Expert	Mr. Sharad Bansod
No. of Participants	20
Activity In-charge	Prof. Vaishnavi Vhora
Content	<ol style="list-style-type: none"> 1. Java and Advance Java 2. Interface & Packages 3. JDBC 4. ODBC
Objective	<ol style="list-style-type: none"> 1. To programing Skills of students. 2. To build understanding of Java and its packages among the students.
Summary	<p>Expert Lecture was conducted by the department of CE collaboration with IQAC & EDC , SSIT,Nagpur on 23.02.2024 from 12.00 pm to 3.00 pm. By Mr. Sharad Bansod, owner of SoftBuzz Private Limited has taken expert lecture on topic "Advance Java" for Computer Engineering students in Project Room. Total of around 22 students and staff participated in this program. The speaker explains the basics of Java and its packages, he explains Java Database Connectivity, Open database connectivity. He also explain that why Servlet mostly uses Java. At the end of the session students ask their doubts regarding the topics covered in session.</p>
Outcome of Activity	<ol style="list-style-type: none"> 1. Students come to know what Java is and Advance java is, they come to know about java packages, servlet.

Sarvasiddhanta Education Society's
Swaminarayan Siddhanta Institute of Technology
Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University
Nagpur-Katol Highway Road, Khapri (Kothe),
Tal: Kalmeshwar, Nagpur, Maharashtra-441501
Department of Computer Engineering



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6VR9+WX, Ghogali, Maharashtra 441501, India
Lat 21.243052°
Long 78.870642°
23/02/24 01:03 PM GMT +05:30


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HOD
Dept. of Computer Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur



Ref. No.: SSIT/CE/2023-24/GL/18

Date: 23-02-2024

To,
Mr. Sharad Bansod
SoftBuzz Tech Private Limited, Nagpur

Appreciation Letter

Respected Sir,

It was a wonderful experience having you at Computer Engineering Department of Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur among all of us.

We thank you from the bottom of our heart for taking time from your busy schedule to be the expert speaker at our expert lecture. Your presence and wise words helped magnify our cause in the best possible way. Our expert lecture was a huge success. All thanks to your enlightening words that inspired so many students out there.

We look forward to our next interaction soon. Wishing you all the best for your future endeavors.

Received & Accepted
Bansod

Lalita
HOD
HEAD

Dept. of Computer Engg
Swaminarayan Siddhanta Instt
Technology, Kalmeshwar, Nag

Principal

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Email: info@ssitngp.com Website: www.ssitngp.com




Ref. No: SSIT/CE/2023-2024/S1/05

Date: 28/12/2023

Notice

All the students of B.Tech 4th, 6th, 8th Semester Computer Engineering are hereby informed that First Sessional Examination have been scheduled from 31/01/2024 (Wednesday) to 02/02/2024 (Friday).


Exam Incharge


HEAD
Dept. of Computer Engg.
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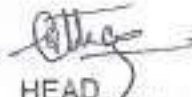
First Sessional Examination
Time Table
B.Tech Fourth Semester

Sr.No	Subject Name	Date	Time
1	Discrete mathematics and Graph Theory	31/01/2024	11:00 am to 12:00 pm
2	Web Technology	31/01/2024	01:00 pm to 02:00 pm
3	Operating System	01/02/2024	11:00 am to 12:00 pm
4	Data Structure	01/02/2024	01:00 pm to 02:00 pm
5	Computer Architecture And organization	02/02/2024	11:00 am to 12:00 pm
6	System Programming	02/02/2024	01:00 pm to 02:00 pm

Instructions to students:

- The students must be an hour before the start of examination in the exam hall.
- The students are not allowed to carry any electronic equipment with them in the exam hall.
- Strictly follow the instructions given by the invigilator.
- Strictly follow the timing given in the schedule.


Exam Incharge


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First Sessional Examination
Time Table
B.Tech Sixth Semester

Sr.No	Subject Name	Date	Time
1	Design & Analysis of Algorithms	31/01/2024	11:00 am to 12:00 pm
2	TCP/IP	31/01/2024	01:00 pm to 02:00 pm
3	Internet of Things	01/02/2024	11:00 am to 12:00 pm
4	Machine Learning	01/02/2024	01:00 pm to 02:00 pm
5	Consumer Electronics	02/02/2024	11:00 am to 12:00 pm

Instructions to students:

- The students must be an hour before the start of examination in the exam hall.
- The students are not allowed to carry any electronic equipment with them in the exam hall.
- Strictly follow the instructions given by the invigilator.
- Strictly follow the timing given in the schedule.


Exam Incharge


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5. Circulation among Teaching Staff
6. Departmental notice Board
7. Concerned Persons


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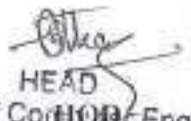
First Sessional Examination
Time Table
B.Tech Eighth Semester

Sr.No	Subject Name	Date	Time
1	Reinforcement Learning	31/01/2024	11:00 am to 12:00 pm
2	Cloud Computing	31/01/2024	01:00 pm to 02:00 pm

Instructions to students:

- The students must be an hour before the start of examination in the exam hall.
- The students are not allowed to carry any electronic equipment with them in the exam hall.
- Strictly follow the instructions given by the invigilator.
- Strictly follow the timing given in the schedule.


Exam Incharge


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Dept. of Computer Engg.
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4. Circulation among Students
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6. Departmental notice Board
7. Concerned Persons


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Dist. Nagpur-441501



First Sessional Examination

Session 2023-2024

Subject: Computer Architecture & Organization (BECME405T)

Sem: 4th Sem Max Marks: 20 Time: 1 hour (11.00 am to 12.00 pm) Date : 02/02/2024

- Instructions:** 1. All questions carry marks as indicated.
2. Solve Question 1 OR Question 2.
3. Solve Question 3 OR Question 4.

No.	Question	Marks	COs mapped
Q1.a)	What is bus? Explain in detail about single bus architecture.	6	CO1
Q1.b)	Compare RISC and CISC architecture.	4	CO1
OR			
Q2.a)	Draw and explain the structure of von Neumann machine.	6	CO1
Q2.b)	Explain various addressing modes with example which are used in instruction set design.	4	CO1
Q3.a)	Perform the following multiplications using Booth's algorithm. 1) $(-14) * 8$ 2) $(-8) * (-10)$	8	CO2
Q3.b)	Explain Booth's algorithm in brief.	2	CO2
OR			
Q4.a)	Explain With the help of block diagram the working of floating-point addition subtraction unit.	4	CO2
Q4.b)	Represent following numbers in 1's complement, 2's complement and sign magnitude representation: 1) 0 2) -8 3) 16	6	CO2


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Date: 05/02/2024

B.Tech. 8th Semester CE Summer 2024
 First Sessional Marks.

Sr. No.	Roll No.	Name of the students	CC	RL
			Out of 20	Out of 20
1	1	Aachal Arvind Ganar	14	17
2	2	Ammuta Sewakram Bagde	15	16
3	3	Deepshree P Kuttarmare	15	13
4	4	Devi Sukhdev Barai	16	14
5	5	Kajal Prakash Meshram	7	15
6	6	Minal Sunil Jibhkate	15	16
7	7	Ruchika Siddharth Meshram	15	17
8	8	Tanvi Devanand Shrikhande	15	14
9	9	Ayush Girish Bokade	14	15
10	10	Dattashri Jaideo Balbudhe	15	16
11	11	Karan Pandit Raut	17	16
12	12	Mohammad Huzaifa Sheikh	16	15
13	13	Piyush Digambar Vairagade	15	7
14	14	Prajwal Prakash Padmawar	17	14
15	15	Purvash Diliprao Shelke	15	6
16	16	Ranjeet Maroti Zade	16	15
17	17	Runank Pradeep Patil	16	17
18	18	Sagar Shrihari Sarkar	16	14
19	19	Sameer Sudhakar Lhipande	5	15
20	20	Satish Dilip Karemore	14	16
21	21	Shrihari Ashok Dhore	16	17
22	22	Somesh Visshnu Nagarikar	14	12
23	23	Tanmay Dinesh Bhojar	15	16


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 Swaminarayan Siddhanta Institute
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Ref No: SSIT/CE/2022-23/SL/03

Date: 05/02/2024

NOTICE

All the Students of B.E. 8th Sem Computer Engineering are here by informed that, their Remedial Classes are arranged for those Students who scored less than 50% marks in their First Sessional Examination. Remedial Classes are Scheduled from date 06/02/2024. List of Students and Timetable for remedial classes for session 2023-2024 are displayed on the notice board.

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Date: 05/02/2024

SLOW LEARNER LIST
B.Tech. 8th Semester CE Summer 2024
Subject: Reinforcement Learning

Sr. No.	Roll No.	Name of the students	Sessional I
			(out of 20)
1	13	Piyush Digambar Vairagade	7
2	15	Purvesh Diliprao Shelke	6


Subject In-Charge


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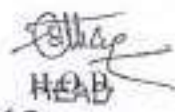


Date: 05/02/2024

SLOW LEARNER LIST
B.Tech. 8th Semester CE Summer 2024
Subject: Cloud Computing

Sr. No.	Roll No.	Name of the students	Sessional I
			(out of 20)
1	19	Sameer Lihipande	5
2	5	Kajal Meshram	7


Subject In-Charge


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Date: 05/02/2024

SLOW LEARNER TIMETABLE SCHEDULE
B.Tech. 8th Semester Summer 2024
Session 2023-2024

S. No.	DAY	SUBJECT	TIME
1	MONDAY	CC	4-15-5pm
2	TUESDAY	RL	4-15-5pm
3	WEDNESDAY	CC	4-15-5pm
4	THURSDAY	RL	4-15-5pm
5	FRIDAY	CC	4-15-5pm
6	SATURDAY	RL	4-15-5pm


Time table In-charge


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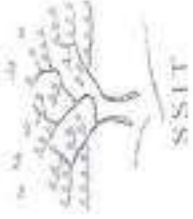
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Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Computer Engineering



Remedial Classes Attendance Details
B.Tech. 8th Semester CE Summer 2024
Subject: Cloud Computing

Session 2023-24
Month - February

Sr.No.	Name	6/2	8/2	12/2	14/2	16/2	20/2	20/2	26/2	28/2	Total Classes Attended
1	Sameer Lihpande	P	P	P	P	P	P	P	P	P	100%
2	Kajal Meshram	.	P	P	P	P	.	P	P	P	77.7%
	Topic Covered	Cloud computing, XDR, etc.									
		Feature									
		Service management									
		Data management									
		Resource management									
		Cloud Security									
		Open Source cloud									
		Commercial cloud									
		Servers/Cloud computing									

Gejal
Subject In-Charge

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HEADD
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Swaminarayan Siddhanta Institute
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Ref. No: SSIT/CE/2023-2024/S2/06

Date: 01/03/2024

Notice

All the students of B.Tech 4th, 6th, 8th Semester Computer Engineering are hereby informed that Second Sessional Examinations have been scheduled from 04/03/2024 (Monday) to 06/03/2024 (Wednesday).


Exam Incharge


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Second Sessional Examination
Time Table
B.Tech Fourth Semester

Sr.No	Subject Name	Date	Time
1	Discrete mathematics and Graph Theory	04/03/2024	11:00 am to 12:00 pm
2	Web Technology	04/03/2024	01:00 pm to 02:00 pm
3	Operating System	05/03/2024	11:00 am to 12:00 pm
4	Data Structure	05/03/2024	01:00 pm to 02:00 pm
5	Computer Architecture And organization	06/03/2024	11:00 am to 12:00 pm
6	System Programming	06/03/2024	01:00 pm to 02:00 pm

Instructions to students:

- The students must be an hour before the start of examination in the exam hall.
- The students are not allowed to carry any electronic equipment with them in the exam hall.
- Strictly follow the instructions given by the invigilator.
- Strictly follow the timing given in the schedule.


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Second Sessional Examination
Time Table
B.Tech Sixth Semester

Sr.No	Subject Name	Date	Time
1	Design & Analysis of Algorithms	04/03/2024	11:00 am to 12:00 pm
2	TCP/IP	04/03/2024	01:00 pm to 02:00 pm
3	Internet of Things	05/03/2024	11:00 am to 12:00 pm
4	Machine Learning	05/03/2024	01:00 pm to 02:00 pm
5	Consumer Electronics	06/03/2024	11:00 am to 12:00 pm

Instructions to students:

- The students must be an hour before the start of examination in the exam hall.
- The students are not allowed to carry any electronic equipment with them in the exam hall.
- Strictly follow the instructions given by the invigilator.
- Strictly follow the timing given in the schedule.


Exam Incharge


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Second Sessional Examination
Time Table
B.Tech Eighth Semester

Sr.No	Subject Name	Date	Time
1	Reinforcement Learning	04/03/2024	11:00am to 12:00pm
2	Cloud Computing	04/03/2024	01:00pm to 02:00pm

Instructions to students:

- The students must be an hour before the start of examination in the exam hall.
- The students are not allowed to carry any electronic equipment with them in the exam hall.
- Strictly follow the instructions given by the invigilator.
- Strictly follow the timing given in the schedule.


Exam Incharge


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Second Sessional Examination

Session 2023-2024

Subject: System Programming (BECME406T)

Sem: 4 th Sem	Max Marks: 20	Time – 1 Hour (01:00 pm to 02:00 pm)	Date :06/03/2024
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Instructions: 1. All questions carry marks as indicated.
 2. Solve Question 1 **OR** Question 2.
 3. Solve Question 3 **OR** Question 4.

Sr. No.	Question	Marks	COs mapped
Q1A	Explain the design of direct linking loader.	6	CO3
Q1B	Explain absolute loading schemes with example.	4	CO3
OR			
Q2A	Explain relocating loader with suitable example.	6	CO3
Q2B	What are the functions of loader? How they are performed in relocating loader?	4	CO3
Q3A	Draw a block diagram of the phases of compiler and indicate the main function of each phase.	6	CO4
Q3B	What is token? How tokens are specified? Also explain how tokens are recognized.	4	CO4
OR			
Q4A	What is the significance of intermediate code generation phase of a compiler? Explain with the help of example.	6	CO4
Q4B	What are errors that may encounter in each phase of a compiler?	4	CO4


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Ref. No: SSIT/CE/2023-24/PUT/02

Date: 04/04/2024

NOTICE

All the students of B.Tech 4th, 6th & 8th semester Computer Engineering are hereby informed that, their PUT examination have been scheduled from Monday 15/04/2024 to Wednesday 24/04/2024.


Exam Incharge


H.O.D.
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Pre- University Test

Time Table

B.Tech 4th Semester

Sr. No.	Subject Name	Date	Time
1	Discrete Mathematics & Graph Theory	15/04/2024	10:00am to 01:00pm
2	Web Technology	16/04/2024	10:00am to 01:00pm
3	Operating System	18/04/2024	10:00am to 01:00pm
4	Data Structure	22/04/2024	10:00am to 01:00pm
5	Computer Architecture & Organization	23/04/2024	10:00am to 01:00pm
6	System Programming	24/04/2024	10:00am to 01:00pm

Instructions to students:

- The students must be present before the start of examination in the exam hall.
- The students are not allowed to carry any electronic equipment with them in the exam hall.
- Strictly follow the instructions given by examiner.
- Strictly follow the timing given in the schedule.

H.O.D.
HEAD

Computer Department
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Pre University Test Examination

Session 2023-2024

Subject: Operating System (BTCME403T)

Semester: 4 th Sem	Max Marks: 70	Time – 3 Hour	Date : 18/04/2024
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- Instructions:**
- All questions carry marks as indicated.
 - Solve Question 1 OR Questions No. 2.
 - Solve Question 3 OR Questions No. 4.
 - Solve Question 5 OR Questions No. 6.
 - Solve Question 7 OR Questions No. 8.
 - Solve Question 9 OR Questions No. 10.
 - Due credit will be given to neatness and adequate dimensions.
 - Assume suitable data whenever necessary.

SR. No.	Question	Marks	COs mapped
Q1A	Define essential properties of the given operating systems. I)Batch OS II)Time sharing OS III)Real time OS	7	CO1
Q1B	What is system calls? Explain various system calls.	7	CO1
OR			
Q2A	Explain the various file allocation methods in details.	7	CO1
Q2B	Explain the different directory structures.	7	CO1
Q3A	State the difference between Pre-emptive non-pre-emptive scheduling.	7	CO2
Q3B	What is scheduler? Explain the different types of schedulers.	7	CO2
OR			
Q4A	What are the different scheduling criteria?	7	CO2
Q4B	What is multithreading? Explain various multithreading models.	7	CO2


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Department of Computer Engineering



Q5A	Explain the condition to satisfy the problem of critical section.	7	CO3
Q5B	Explain the peterson's algorithm with example.	7	CO3

OR

Q6A	What is semaphore? Explain in detail.	7	CO3
Q6B	What is multithreading model? Explain in brief.	7	CO3
Q7A	Explain the Bankers algorithm in details.	7	CO4
Q7B	Which are the necessary condition to recover the deadlock?	7	CO4

OR

Q8A	Explain various disk scheduling algorithm with examples.	7	CO4
Q8B	Explain resource allocation graph algorithm.	7	CO4
Q9A	What is virtual memory? Explain demand paging.	7	CO5
Q9B	Explain the various algorithm I)FIFO II)LRU III)SJF	7	CO5

OR

Q10A	Write short notes on: i) Memory allocation methods.ii)Demand paging.	7	CO5
Q10B	What are the methods for enforcement of protection & security threats?	7	CO5


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Assignment -I

Subject: Operating System (BTCME403T)

Semester: B.Tech 4th Sem (Computer Engg.)

Session: 2023-2024

Sr. No.	Questions	COs mapped
Q1	State and explain file allocation methods.	CO1
Q2	Explain the services provided by operating system.	CO1
Q3	Describe the differences between symmetric and asymmetric multiprocessing what are the advantages and disadvantages of multiprocessor systems?	CO1
Q4	What is IPC? Explain different ways of achieving IPC.	CO2
Q5	Explain the state transition diagram of the process.	CO2
Q6	What are the functions of CPU scheduler? Explain different types of schedulers in detail.	CO2


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HOD (CE)



Assignment -II

Subject: Operating System (BTCME803T)

Semester: B.Tech 4th Sem (Computer Engg.)

Session: 2023-2024

Sr. No.	Questions	COs mapped
Q1	Show how semaphore solve two process critical section problem	CO3
Q2	State and explain producer- Consumer problem	CO3
Q3	What is critical section? Describe various solution to CS problem.	CO3
Q4	Explain following: i) Resource Allocation Graph ii) Wait-for-Graph	CO4
Q5	Define deadlock. Explain how to recover from deadlock.	CO4
Q6	What is the total head movement to satisfy these requests for the following scheduling schemes? i) FCFS ii) SSTF iii) SCAN iv) C-LOOK	CO4


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HOD (CE)



Assignment -III

Subject: Operating System (BTCME403T)

Semester: B.Tech 4th Sem (Computer Engg.)

Session: 2023-2024

Sr. No.	Questions	COs mapped
Q1	Explain paging with address translation scheme. What are the various page table structures?	CO5
Q2	What is page fault? Explain different steps to handle page fault.	CO5
Q3	Explain dynamic loading and linking in brief. Define i) Compile time. ii) Load time and iii) Execution time.	CO5
Q4	Write in brief any two. i) Virtual memory. ii) Demand paging.	CO5


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HOD (CE)

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 College (314) Swaminarayan Siddhanta Institute of Technology, Nagpur
 ASSIGNMENT SUBMISSION

B.Tech. 4th Semester Computer Engineering Summer-2023

5th Sem
 2023 Sem

Sr. No.	Name	DMGT			WT			OS			DS			CAO			SP		
		A1	A2	A3	A1	A2	A3	A1	A2	A3	A1	A2	A3	A1	A2	A3	A1	A2	A3
1	Payal Chaitram Bawankar	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal	Payal
2	Anchal Shankar Chaudhar	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal
3	Kajol Dinakar Dongarwar	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol	Kajol
4	Varsha Mohan Gaikwad	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha
5	Bhakti Dadaso Ghadage	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti
6	Utkarsha Ambadas Gharde	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha	Utkarsha
7	Prachiti Subhash Jain	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti	Prachiti
8	Tehsin Kataliya	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin	Tehsin
9	Sakshi Ranjan Khade	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
10	Poonam Kamalant Mallik	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam	Poonam
11	Shilpa Devidas Mankar	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa
12	Nandini Meshram	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini
13	Kiran Pradip Motghare	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran
14	Maheshwari Sunil Nilamwar	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari	Maheshwari

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DEPARTMENTAL ACADEMIC CALENDAR

SESSION: 2023-2024

TERM: ODD (III, V, VII)

SR. NO.	ACTIVITY	DATE
1.	Principal Meeting Odd Term Commencement	20/06/2023
2.	Time Table Display	03/07/2023
3.	Commencement of Odd Term	10/07/2023
4.	Teaching Session Start	10/07/2023
5.	Mini Project Mega Project Topic Finalization	Last Week of July
6.	Submission of Assignment No. 1	14/08/2023 to 18/08/2023
7.	Mini Project and Mega Project Introductory Seminar on Power Point Presentation (01)	Second Week of August
8.	Sessional Exam No. 1	21/08/2023 to 26/08/2023
9.	Attendance Review I Syllabus Review I Feedback Review I	Last Week of August
10.	Mini Project and Mega Project Progress Seminar on Power Point Presentation (02)	First Week of September
11.	Academic Monitoring no. 1	04/09/2023 Between 07/09/2023
12.	Student Technical Activity/Workshop/ Guest Lecture	2 nd Week of September
13.	Submission of Assignment-no. 2	05/09/2023 to 08/09/2023
14.	Sessional Exam No. 2	11/09/2023 to 16/09/2023
15.	Attendance Review II Syllabus Review II Feedback Review II	Third Week of September
16.	Submission of Assignment no. 3	18/09/2023 to 21/09/2023
17.	Departmental Event	Last Week of September
18.	End of Teaching Session	07/10/2023
19.	Pre University Test	02/10/2023 to 07/10/2023

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20.	Remedial Coaching Started From	First Week of September
21.	Student Industrial Visit	Last Week of September
22.	Final Attendance Review III Final Syllabus Review III Final Feedback Review III	Second Week of October
23.	Final Submission of Term Work	Second Week of October
24.	Mini Project and Mega Project Progress Seminar on Power Point Presentation (03)	09/10/2023 Between 12/10/2023
25.	Final Academic Monitoring no. 2	Third Week of October
26.	End of Odd Term	31/10/2023
27.	Tentative RTMNU Practical Exam	After Exam
28.	Tentative RTMNU Theory Exam	16/10/2023
29.	Next Semester Will Begin From	01/12/2023

P. K. Patil
Incharge


HOD
Dept. of Civil Engrg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

P. K. Patil
Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501



Date: 22/06/2023

NOTICE

All the faculty members of Civil Engineering Department are hereby informed that meeting is scheduled on 23/06/2023 at 3 P.M. in HOD cabin.

Agenda of Meeting

- 1) Odd Semester Planning.
- 2) Subject Distribution.
- 3) Lab in-charge deputation.

HOD
HEAD
Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.





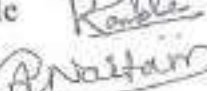


Copy to:

1. The Principal
2. The Dean Academics
3. IQAC Coordinator
4. All teaching staff

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Dist. Nagpur-441501



Date: 23/06/2023

Presided by: - Mr. Rohit Deshmukh 
In attendance: - Mr. Rajesh Ingole 
Ms. Pranjali Karhade 
Ms. Anuja Lonkar 
Ms. Priyanka Kamble 
Mr. Amol Naitam 
Mr. Ashok Kalbande 

MINUTES OF MEETING

1. The Head of Department started the meeting by briefly explaining the purpose of the meeting.
2. Discussion with faculties about the session plan.
3. Subject allocation is done from HOD by preference given by the faculties.
4. Advised to Follow Session plan for successful implementation of all events during the session.
5. Instruction regarding teaching plan and practical plan are done.
6. Time table and work load distribution are done in the meeting.
7. He also informed that the Progress Review Meeting will be held at the end of every month for assessing the session plan implementation.
8. Planning of budget for the session.
9. Faculty queries regarding session plan was addressed.

NOTE: Circulation among all staff members.


HOD
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Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
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Session: 2023-24
LOAD DISTRIBUTION (Odd Semester)

Sr. No.	Name of Faculty	Subject Alloted	Sem	Teaching Load			Total
				TH	TU	PR	
1	Mr. R. P. Deshmukh	Advanced Concrete Structures (Elective-I)	V	3+1	10
		Project Work Phase-I	VI	...	...	6
2	Mr. R. B. Ingole	Water and Waste water Treatment (Elective-VI)	VI	3+1	8
		Industrial Training & Professional Skills	V	...	...	4
3	Ms. P. R. Kamble	Civil Engineering Materials, Testing & Evaluation	V	3	...	4	12
		Effective Technical Communication	III	2	...	...
		Civil Engineering Materials, Testing & Evaluation (Open Elective-II)	VI	3	...	...
4	Ms. P. K. Karhade	Advanced Building Materials (Elective-II)	V	3	12
		Building Construction & Elementary Building Drawing	III	2	...	4	
		Air Pollution & Solid waste management (Elective-V)	VI	3	...	...
5	Mr. A. P. Kalbande	Fluid Mechanics	III	3+1	...	4	13
		Hydraulic Engineering	V	3	...	4	
6	Ms. A. A. Lonkar	Design of Steel Structure	VI	3+1	1	...	13
		Geotechnical Engineering	III	3+1	...	4	
		Professional Practice, Law & Ethics	V	3	...	...
7	Mr. A. M. Naltam	Reinforced Cement Concrete	V	3	1	...	15
		Solid Mechanics	III	3+1	...	4	
		Building Construction Practices (Elective-IV)	VI	3	...	...
8	Mr. N. R. Shenode	Organizational Behaviour	V	2	2
9	Mr. A. P. Tarafdar	Mathematics-III	III	3+1	1	...	5


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Dept. of Civil Engg.
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 of Technology, Kalmeshwar, Nagpur.


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SESSION 2023-24
MASTER TIME TABLE (ODD SEMESTER)

DAY	SEM	1	2	3		4	5	6
		9.45-10.45	10.45-11.45	11.45-12.45	12.45-01.15	01.15-02.15	02.15-03.15	03.15-04.15
MON	III	SM	FM	M-III	R	BC&EBD	FM LAB (PR)	
	V	ACS	RCC	HE		OB	IT&PS (PR)	
	VII	BCP	APSWM	DSS		LIBRARY	PWP-I	
TUE	III	FM	SM	M-III	E	BC&EBD	GTE LAB (PR)	
	V	PP	ACS	HE		CEM	HE LAB (PR)	
	VII	WWWT	CEMT&E	BCP		DSS-T	TG Interaction	Sports
WED	III	M-III	SM	FM	C	GTE	SM LAB (PR)	
	V	HE	ABM	RCC		ACS	CEM LAB (PR)	
	VII	DSS	WWWT	CEMT&E		Library	PWP-I	
THU	III	M-III-T	SM-T	GTE	E	ETC	BCEBD LAB (PR)	
	V	CEM	RCC	PP		ABM	TG Interaction	Sports
	VII	DSS	APSWM	WWWT		BCP (EX)	Sports	
FRI	III	GTE	ETC	M-III (EX)	S	TG Interaction	LIBRARY	
	V	CEM	OB	RCC-T		PP	ABM	Library
	VII	APSWM	BCP	CEMT&E		PWP-I		Library
SAT	III	SM (EX)	FM (EX)	GTE (EX)	S	HOD Interaction		
	V	ACS (EX)	RCC (EX)	HE (EX)		HOD Interaction		
	VII	WWWT (EX)	DSS (EX)	APSWM (EX)		HOD Interaction		

IIIrd SEM (CBCS)		Vth SEM (CBCS)		VIIth SEM (CBS)	
M-III	Prof. A. P. Tarafdar	IT&PS	Prof. R. B. Ingole	DSS	Prof. A. A. Lonkar
FM	Prof. A. P. Kalbande	ACS (E-I)	Prof. R. P. Deshmukh	BCP (E-IV)	Prof. A. M. Naitam
SM	Prof. A. A. Lonkar	ABM (E-II)	Prof. P. K. Karhade	APSWM (E-V)	Prof. P. K. Karhade
ETC	Prof. P. R. Kamble	PP	Prof. A. A. Lonkar	WWWT (E-VI)	Prof. R. B. Ingole
BCEBD	Prof. P. K. Karhade	CEM	Prof. P. R. Kamble	CEMT&E (OE-II)	Prof. P. R. Kamble
GTE	Prof. A. M. Naitam	OB	Prof. N. R. Shenode	PWP-I	Prof. R. P. Deshmukh
		RCC	Prof. A. M. Naitam		
		HE	Prof. A. P. Kalbande		

Rashade
TIME TABLE INCHARGE

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Swaminarayan Siddhanta Institute
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HEAD
HEAD
Dept. of Civil Engg.
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 Tal: Kalmeshwar, Nagpur, Maharashtra-441501
Department of Civil Engineering



SESSION 2023-24
3rd SEM TIME TABLE

DAY	SEM	1	2	3	4	5	6
		9.45-10.45	10.45-11.45	11.45-12.45	12.45-01.15	01.15-02.15	02.15-03.15
MON	III	SM	FM	M-III	R	BC&EBD	FM LAB (PR)
TUE	III	FM	SM	M-III	E	BC&EBD	GTE LAB (PR)
WED	III	M-III	SM	FM	C	GTE	SM LAB (PR)
THU	III	M-III-T	SM-T	GTE	E	ETC	BCEBD LAB (PR)
FRI	III	GTE	ETC	M-III (EX)	S	TG Interaction	LIBRARY
SAT	III	SM (EX)	FM (EX)	GTE (EX)	S	HOD Interaction	

Prin

TIME TABLE INCHARGE

Prin

HOD
HEAD

Dept. of Civil Engrg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagp.

Prin
Principal
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 Tal: Kalmeshwar, Nagpur, Maharashtra-441501
Department of Civil Engineering



SESSION 2023-24
5th SEM TIME TABLE

DAY	SEM	1	2	3	4	5	6
		9.45-10.45	10.45-11.45	11.45-12.45	12.45-01.15	01.15-02.15	02.15-03.15
MON	V	ACS	RCC	HE	R	OB	IT&PS (PR)
TUE	V	PP	ACS	HE	E	CEM	HE LAB (PR)
WED	V	HE	ABM	RCC	C	ACS	CEM LAB (PR)
THU	V	CEM	RCC	PP	E	ABM	TG Interaction Sports
FRI	V	CEM	OB	RCC-T	S	PP	ABM Library
SAT	V	ACS (EX)	RCC (EX)	HE (EX)	S	HOD Interaction	

Principal

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Dept. of Civil Engg.
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Department of Civil Engineering



SESSION 2023-24
7th SEM TIME TABLE

DAY	SEM	1	2	3	4	5	6
		9.45-10.45	10.45-11.45	11.45-12.45	01.15-02.15	02.15-03.15	03.15-04.15
MON	VII	BCP	APSWM	DSS	LIBRARY		PWP-I
TUE	VII	WWWT	CEMT&E	BCP	DSS-T	TG Interaction	Sports
WED	VII	DSS	WWWT	CEMT&E	Library		PWP-I
THU	VII	DSS	APSWM	WWWT	BCP (EX)		Sports
FRI	VII	APSWM	BCP	CEMT&E		PWP-I	Library
SAT	VII	WWWT (EX)	DSS (EX)	APSWM (EX)			HOD Interaction

(Signature)

TIME TABLE INCHARGE

(Signature)
 Principal

Swaminarayan Siddhanta Institute
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 Dist. Nagpur-441501

(Signature)
 HOD

Dept. of Civil Engrs
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur



TEACHING PLAN

Subject: Advanced Building Materials (Elective-I)

Semester: 5th Sem (Third Year)

Unit No.	Topic code	Lecture No.	Name of Topics	Planned Date	Actual Date
Unit I:	a	1	Classifications of Construction Materials.	12/7/23	12/7/23
	b	2	Consideration of physical,	13/7/23	13/7/23
	b	3	Mechanical, thermo-physical Properties,	14/7/23	14/7/23
	b	4	Characteristics behaviour under stress.	19/7/23	14/7/23
	c	5	Selection criteria for construction materials	20/7/23	19/7/23
	c	6	waste products	21/7/23	20/7/23
	c	7	Reuse and recycling.	26/7/23	21/7/23
Unit II:	a	8	Lime manufacture, properties, hardening of lime	27/7/23	21/7/23
	a	9	types of lime, lime concrete uses, cement, aggregates	28/7/23	26/7/23
	a	10	water, characteristics, properties and uses of Pozzolana materials	2/8/23	27/7/23
	b	11	Types of mortars	3/8/23	28/7/23
	b	12	special mortars,	4/8/23	2/8/23
	b	13	properties and applications, admixtures	9/8/23	3/8/23
Unit III:	a	14	Classification, Refractories	10/8/23	4/8/23
	a	15	Glass, glass wool.	11/8/23	4/8/23
	b	16	Mechanical properties	17/8/23	9/8/23
	b	17	Thermal properties	18/8/23	10/8/23
	b	18	electrical properties	23/8/23	11/8/23
	c	19	Fire resistance materials	24/8/23	11/8/23
	c	20	Uses of Fire resistance	25/8/25	17/8/23
	c	21	Application of Fire resistance	30/8/23	18/8/23



Unit IV:	a	22	Polymerization mechanism	31/8/23	30/8/23
	a	23	depolymerisation	1/9/23	31/8/23
	b	24	Rubber and plastics, properties	6/9/23	1/9/23
	b	25	effect of temperature on mechanical properties	13/9/23	1/9/23
	b	26	Uses and application	14/9/23	6/9/23
	c	27	Types of structural steels, special steel	15/9/23	7/9/23
	c	28	alloy steel, stainless steel, Light gauge steel.	20/9/23	8/9/23
Unit V:	a	29	Green concepts in buildings,	21/9/23	14/9/23
	a	30	Green building materials	22/9/23	15/9/23
	a	31	Green building ratings IGBC and LEED manuals	27/9/23	20/9/23
	a	32	Mandatory requirements.	29/9/23	21/9/23
	c	33	Rainwater harvesting & solar passive architecture.	4/10/23	22/9/23
	c	34	Environmental friendly and cost effective building technologies	5/10/23	27/9/23
	c	35	Requirements for buildings of different climatic regions	6/10/23	29/9/23

ex-4

Rohade
 Subject Incharge

[Signature]
 Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501

[Signature]
 HOD
 Dept. of Civil Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.



TEACHING PLAN PRACTICAL

Subject: **ENVIRONMENTAL ENGINEERING**

Semester: 4th Sem (Second Year)

Practical No.	Name of Practical	Planned Date	Actual Date
1	Determination of pH	26/12/23	26/12/2023
2	Determination of Conductivity	2/01/24	02/1/24
3	Determination of Turbidity	9/01/24	9/1/24
4	Determination Chlorides	16/01/2024	16/1/24
5	Determination of Solid's (Suspended & dissolved)	23/01/2024	23/1/24
6	Determination of Acidity and alkalinity	30/01/2024	30/1/24
7	Determination of Dissolved Oxygen	6/02/2024	6/02/24
8	Determination of Available Chlorine	13/02/2024	13/2/24
9	Determination of Residual Chlorine	20/2/2024	20/2/24
10	Jar Test(optimum dose of coagulant)	27/2/2024	27/2/24

Subject Incharge

Principal

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HOD
HEAD

Dept. of Civil Engg
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nag-



INDEX

Guest/Expert Lecture

Sr. No.	Session	Topic	Name of Expert	No. of students attended	Date
1	2023-24	Basic Principal on Building Planning	Mr. Akshay Mohane Director, G-Tech Infrastructures, Nagpur.	25	12/08/2023
2		Importance of Environmental Engineering	Mrs. Aboli Chavhan Assistant Professor, GWCOE, Nagpur.	26	23/09/2023
3		Road Safety: Issues and Challenges	Prof. Sanjay Bhadke Assistant Professor, TGPCET, Nagpur	21	10/02/2024
4		Recent Innovation in Civil Engineering Structures	Dr. B. V. Bahoria Assistant Professor, YCCE, Nagpur	23	23/03/2024


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Ref.No.: SSIT/CE/EL/2023-24/27-

Date:-20/03/2024

NOTICE

All the students of Civil Engineering Department are hereby informed that the Expert Lecture in collaboration with IQAC on the topic "Recent Innovation in Civil Engineering Structure" is scheduled on 23/03/2024 at 11:30am in online mode.

All the students are instructed to remain present. Link will be provided prior to lecture.

Head of Department
Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nag.

Copy to:

- (1) The Principal
- (2) Dean Academics
- (3) IQAC Coordinator
- (4) All Class Incharges
- (5) Notice Board

Principal
Swaminarayan Siddhanta Institute
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Dist. Nagpur-441501



L. No.: SSIT/CE/EL/2023-24/28

Date: 20/03/2024

To,
Dr. B. V. Bahoria,
Assistant Professor,
YCCE, Nagpur.

Subject: Invitation for Expert Lecture on "Recent Innovation in Civil Engineering Structure".

Respected Mam,

It gives us immense gratification to enlighten you that Department of Civil Engineering, Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur is organizing Expert Lecture on "Recent Innovation in Civil Engineering Structure" in collaboration with IQAC for Civil Engineering students on 23/03/2024 at 11:30 am. It will endow with a platform to exchange knowledge among young technocrats. It will be our pleasure and honor to seek your august as an Expert for guest lecture. Your association is significant in ensuring a great success to the event.

Thanking you.

Details of Expert Lecture:

- Date & Time: 23/03/2024 & 11:30 am.
- Mode of Conduction: Online


Head of Department
Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

*Received
Dr. B. V. Bahoria
20/03/2024*

Swaminarayan Siddhanta Institute of Technology, Nagpur

2nd Floor, Kalpataru, 77 Above Central Bank of India, Abhyankar Nagar, Nagpur (India) Tel: +91-712-2250086
College: Nagur-Katol Highway Road, Khapri (Kotha), Tah. Kalmeshwar, Nagpur-441501. Tel: +91-7118-661100,
661103, Email-id: info@ssiteda.com, Website: www.ssiteda.com


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ONE PAGE REPORT

ONE PAGE REPORT ON	
Title	Expert Lecture
Name of Activity	Expert Lecture on "Recent Innovation in Civil Engineering Structure"
Date	23/03/2024 & 11:30 AM
Venue	Google Meet (Online)
Organized by	Department of Civil Engineering in Collaboration with IQAC, SSIT, Nagpur.
Name of Expert	Dr. B. V. Bahoria, Assistant Professor, YCCE, Nagpur.
Participated by	Students of Civil Engineering Department, SSIT, Nagpur
Activity In-charge	Mr. Rohit Deshmukh
Content	The expert lecture focuses on : 1. New construction materials uses. 2. Concept of self-compacting concrete. 3. The effects of using waste material during concrete preparation. 4. A brief outline of Light weight concrete. 5. Benefits of SCC and LWC in recent construction.
Objective	The objectives of Expert program was: 1. To understand the various new techniques used in construction. 2. To prepare the students for industry oriented. 3. To understand the benefits of SCC & LWC.
Outcome of Activity	1. Understanding the concept of Self-compacting concrete. 2. Students came to know about the effects & uses of self-compacting concrete. 3. Knowing about various applications of Light Weight Concrete.


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List of Participants

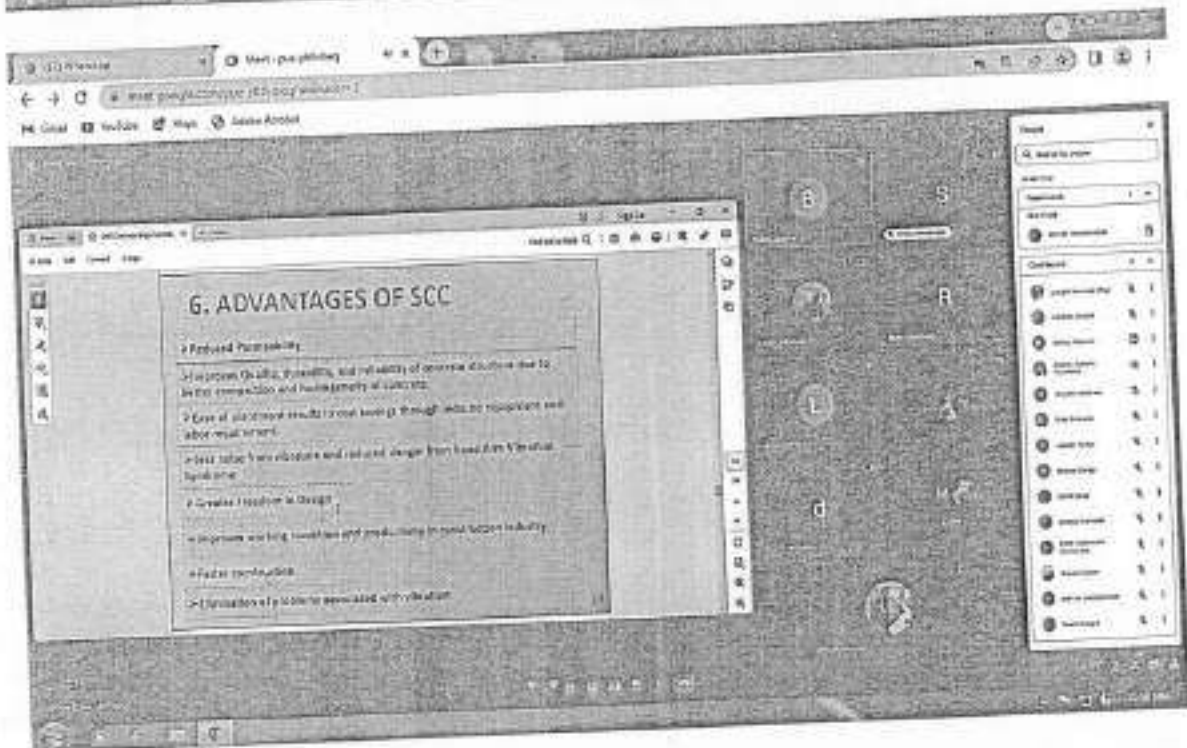
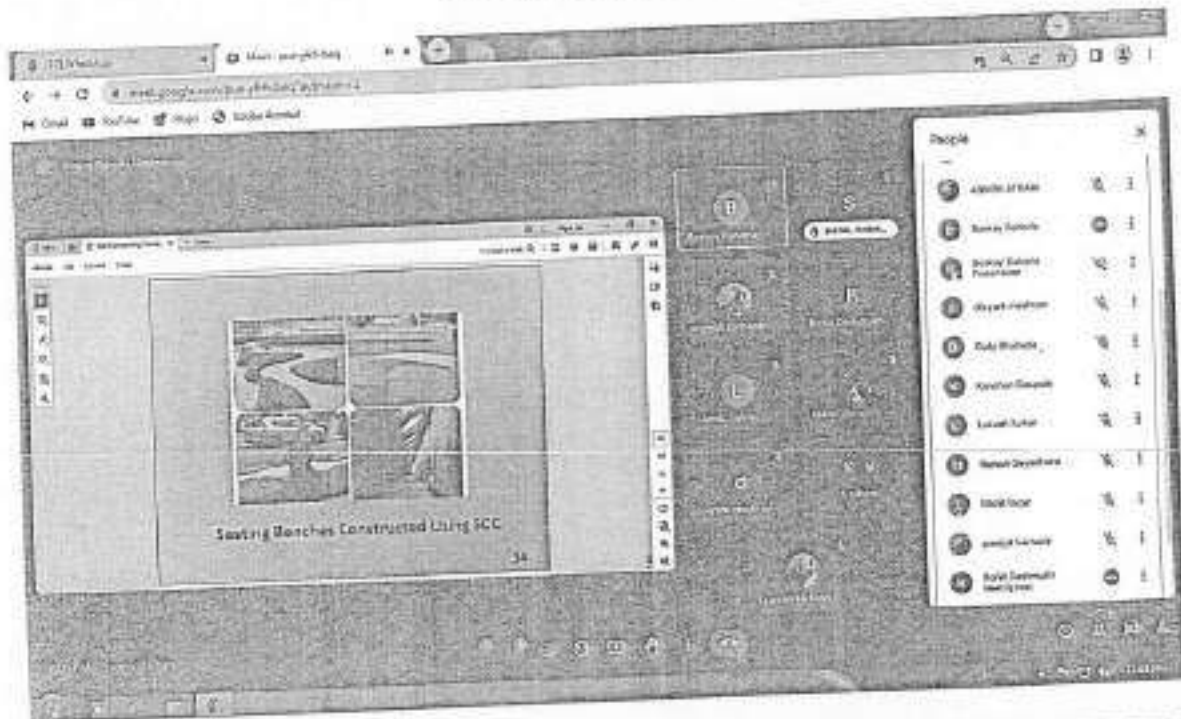
Sr. No.	Name of Student	Remark
1	Ashish Atram	P
2	Dolly Bhujade	P
3	Hina Kapse	P
4	Lukesh Turkar	P
5	Mansi Denge	P
6	Swati Patle	P
7	Kapil Rathod	P
8	Shailesh Patle	P
9	Rohit Yadav	P
10	Shital Harinkhede	P
11	Divyani Meshram	P
12	Sharad Pipare	P
13	Swati Dongare	P
14	Nikhil Munde	P
15	Dhananjay Gokhale	P
16	Ankit Jibhakate	P
17	Krushna Kumre	P
18	Trupti Thakare	P
19	Kanchan Gaupale	P
20	Naresh Gaidhane	P
21	Sahil Sontakke	P


HEAD
Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, I...


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Glimpses of Expert Lecture



Dr. [Signature]
Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501



L. No.: SSIT/CE/EL/2023-24/ 31

Date: 23/03/2024

Appreciation Letter

To,


Dr. B. V. Bahoria,
Assistant Professor,
YCCE, Nagpur.

Respected Mam,

It was a wonderful experience having you at Civil Engineering Department of SSIT, Kalmeshwar, Nagpur among all of us. We were truly motivated by your presence of compassion and vigor for Expert Lecture on "Recent Innovation in Civil Engineering Structure" in collaboration with IQAC on dated 23/03/2024 for Civil Engineering students. We believe that this meeting of ours will certainly turn out to be a remarkable one for the budding engineer's in their field of excellence.

Mam, we would like to extend our humble gratitude to you for spending your precious time with us. It was our privilege to have you here with us.

Thanking you,


Head of Department
Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

Swaminarayan Siddhanta Institute of Technology, Nagpur

2nd Floor, Kalpataru, 77 Above Central Bank of India, Abhyankar Nagar, Nagpur (India) Tel.: +91-712-2250086
College: Nagur-Katol Highway Road, Khapuri (Kotbe), Tah. Kalmeshwar, Nagpur-441501. Tel.: +91-7118-661100,
661103, Email-id: info@ssitedu.com, Website: www.ssitedu.com


Principal

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Received
23/03/2024
Dr. B. V. Bahoria

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Department of Civil Engineering



Session: 2023-2024


Ret. No :- SSIT/Civil/2023-24/S1/31

Date: 27/01/2024

NOTICE

All the Students of Civil Engineering department are here by informed that there 1st Sessional Examination have been scheduled from 31 January 2024 to 02 February 2024. Attendance is mandatory for all the students.


Sessional In-charge


H.O.D.
HEAD
Dept. of Civil Engg.
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Date: 27/01/2024

1st SESSIONAL TIME TABLE Sem: 4th
Department of Civil Engineering
Session: 2023-2024

Day / Date	Time	Subject
31-01-2024 (Wednesday)	11 AM - 12 PM	Concrete Technology
31-01-2024 (Wednesday)	02 PM - 03 PM	Structural Analysis
01-02-2024 (Thursday)	11 AM - 12 PM	Environmental Engineering
01-02-2024 (Thursday)	02 PM - 03 PM	Transportation Engineering
02-02-2024 (Friday)	11 AM - 12 PM	Surveying and Geomatics


Sessional In-charge


H.O.D.
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Dept. of Civil Engg.
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Principal
Swaminarayan Siddhanta Institute
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Sessional -1

Session 2023-2024

Subject: Concrete Technology

SEM: 4th	Max Marks: 20	Time – 1 Hour (11:00 am - 12:00 pm)	Date : 31/01/2024
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- Instructions:** 1. All questions carry marks as indicated.
 2. Solve Question 1 OR Question 2.
 3. Solve Question 3 OR Question 4.

No.	Question	Marks	COs mapped
Q1A	Explain field test on cement & also list down the different Types of lab test conducted on cement.	5	CO1
Q1B	Explain in brief grading of coarse aggregate & fine Aggregate.	5	CO1
OR			
Q2A	Explain the classifications of Aggregate.	4	CO1
Q2B	List various types of Admixtures used in concrete? Explain plasticizers and superplasticizers.	6	CO1
Q3A	Explain various factors affecting workability of concrete	5	CO2
Q3B	Define batching? Compare Volume Batching and Weight Batching.	5	CO2
OR			
Q4A	Explain compaction factor test in detail?	5	CO2
Q4B	Define Shrinkage? Explain in brief various classifications Of shrinkage	5	CO2

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Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University
Nagpur-Katol Highway Road, Khapri (Kothe),
Tal: Kalmeshwar, Nagpur, Maharashtra-441501
Department of Civil Engineering
Session: 2023-2024



Ref. No :- SSIT/Civil/2023-24/S2/36

Date: 27/02/2024

NOTICE

All the Students of Civil Engineering department are here by informed that there 2nd Sessional Examination have been scheduled from 4th March 2024 to 06 March 2024. Attendance is mandatory for all the students.

Rahade
Sessional In-charge

[Signature]
H.O.D.
HEAD
Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur

[Signature]
Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
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Tal: Kalmeshwar, Nagpur, Maharashtra-441501



Date: 27/02/2024

2nd SESSIONAL TIME TABLE Sem: 4th
Department of Civil Engineering
Session: 2023-2024

Day / Date	Time	Subject
04-03-2024 (Monday)	11 AM - 12 PM	Concrete Technology
04-03-2024 (Monday)	02 PM - 03 PM	Structural Analysis
05-03-2024 (Tuesday)	11 AM - 12 PM	Environmental Engineering
05-03-2024 (Tuesday)	02 PM - 03 PM	Transportation Engineering
06-03-2024 (Wednesday)	11 AM - 12 PM	Surveying and Geomatics

Prashad
Sessional In-charge

B. M.
H.O.D.
HEAD
Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

Prashad
Principal
Swaminarayan Siddhanta Institute
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Sessional -2

Session 2023-2024

Subject: Environmental Engineering

SEM: 4th	Max Marks: 20	Time – 1 Hour (11.00 am - 12:00 pm)	Date : 05/03/2024
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- Instructions:** 1. All questions carry marks as indicated.
2. Solve Question 1 OR Question 2.
3. Solve Question 3 OR Question 4.

No.	Question	Marks	COs mapped
Q1A	Define sewage, sewer & sewerage system in details.	5	CO3
Q1B	Describe conservancy system & water carriage system.	5	CO3
OR			
Q2A	Explain the various systems of house plumbing in brief with the neat sketches.	5	CO3
Q2B	Explain physical & chemical characteristics of waste water.	5	CO3
Q3A	What are the different types of privies? Explain with neat sketch "Aqua Privy".	5	CO4
Q3B	Discuss in details about sewage forming.	5	CO4
OR			
Q4A	Explain in details Activated sludge process.	5	CO4
Q4B	Explain the working of trickling filter with neat sketch.	5	CO4


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Department of Civil Engineering



Session: 2023-2024

Ref. No: SSIT/Civil/2023-24/PUT/38

Date: 10/04/2024

NOTICE

All the Students of Civil Engineering department are here by informed that there Pri-University Test have been scheduled from 15 April 2024 to 20 April 2024. Attendance is mandatory for all the students.


Sessional In-charge


H.O.D.
HEAD
Dept. of Civil Engg.
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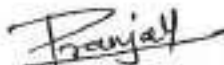

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Date: 10/04/2024

PRE-UNIVERSITY TIME TABLE Sem: 4th
Department of Civil Engineering
Session: 2023-2024

Day / Date	Time	Subject
15-04-2024 (Monday)	11 AM - 2.00 PM	Concrete Technology
16-04-2024 (Tuesday)	11 AM - 2.00 PM	Structural Analysis
18-04-2024 (Wednesday)	11 AM - 2.00 PM	Environmental Engineering
19-04-2024 (Thursday)	11 AM - 2.00 PM	Transportation Engineering
20-04-2024 (Friday)	11 AM - 2.00 PM	Surveying and Geomatics


In-charge


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PRI-UNIVERSITY TEST

Session 2023-2024

Subject: Concrete Technology

SEM: 4th	Max Marks: 70	Time – 3 Hour (11.00 am - 02:00 pm)	Date : 15/04/2024
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- Instructions:** 1. All questions carry marks as indicated.
2. Solve Question 1 OR Question 2.
3. Solve Question 3 OR Question 4.
4. Solve Question 5 OR Question 6.
5. Solve Question 7 OR Question 8.
6. Solve Question 9 OR Question 10.

No.	Question	Marks	COs mapped
Q1A	Explain in brief grading of coarse aggregate & fine aggregate.	7	CO1
Q1B	List various types of Admixtures used in concrete? Explain plasticizers and super plasticizers.	7	CO1
OR			
Q2A	Explain field test on cement & also list down the different types of lab test conducted on cement.	7	CO1
Q2B	Explain the classification of aggregate.	7	CO1
Q3A	Define shrinkage? Explain in brief various classification of shrinkage.	7	CO2
Q3B	Explain compaction factor test in detail?	7	CO2
OR			
Q4A	Define batching? Compare volume batching and weight batching.	7	CO2
Q4B	Explain various factors affecting workability of concrete.	7	CO2
Q5A	Explain mix design by Road Note No.4 (BS)	7	CO3


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Date: 14/08/2023

ASSIGNMENT 1

Subject: Advanced Building Material (Ele-I)

Semester: 5th sem (Third year)

1. Write down standard sizes, uses and requirements of building construction materials.
2. What are the classifications of materials used in building construction?
3. Describe thermo-physical properties and their types?
4. Explain how do you recycle and reuse construction waste?
5. Explain the criteria for selection of construction materials explain?
6. Explain the significance of fly-ash & pozollonas in view of quality of concrete?
7. Write the types of admixtures and factors affecting admixture.
8. Explain the various properties which affect the quality of concrete.
9. Explain the types of Mortar in details.
10. Explain in brief grading of coarse aggregate & fine Aggregate.

Rashant

Subject Incharge

[Signature]
Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
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Date: 05/09/2023

ASSIGNMENT 2

Subject: Advanced Building Material (Ele-I)

Semester: 5th sem (Third year)

1. What is ceramic and its classification?
2. What are the fire-resistant materials? Explain it.
3. differentiate the mechanical and thermal properties of ceramic materials
4. Uses of fire-resistant material and its application.
5. Explain the polymerisation and depolymerisation?
6. What are the fire-resistant materials? Explain it.
7. Explain the rubber and its properties.

P. Chade
Subject Incharge

Om
Principal
Swaminarayan Siddhanta Institute
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Dist. Nagpur-441501



Date: 18/09/2023

ASSIGNMENT 3

Subject: Advanced Building Material (Ele-I)

Semester: 5th sem (Third year)

1. Explain Steel structure and Types of Steel structure.
2. Explain in detail Green building concepts.
3. Explain in short Special steel and alloy steel.
4. What are the different ratings for a green building?
5. What is the most environmentally friendly building material?
6. Explain the term Rainwater harvesting.

Rohit de
Subject Incharge

Dr. S. S. Patil
Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501



ASSIGNMENT GRADE SHEET

Subject: **Advanced Building Material (Ele-I)**

Semester: **5th SEM (THIRD Year)**

Sr. No	Name of students	Assignment Grade		
		I	II	III
1	Kanchan D Gaupale	5	5	8
2	Nikhil Arun Mundle	8	8	9
3	Dolly Manohar Bhujade	10	9	8
4	Ajay Rajamogili Ragam	5	7	6
5	Shailesh Arjun Patle	9	7	8
6	Swati Jaychad Patle	5	5	8
7	Tajas Udaylalji Tulaskar	8	9	7
8	Shital Omprakash Harinkhed	9	9	9
9	Latasha Umeshwar Raut	8	7	7
10	Ashish Ramdas Atram	9	7	8
11	Hina Keshorao Kapse	7	5	6
12	Lukesh Dulichand Turkar	9	8	7
13	Pragati Digambar Bisen	10	9	8
14	Aman Sayyed	7	8	9
15	Himanshu Nagpure	7	5	6
16	Rohit Tawade	7	6	5
17	Sharad Pandit	8	5	5
18	Utkarsh Gupta	5	5	8
19	Azam Khan	6	5	7
20	Pranay Uikey	9	8	7


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QUESTION BANK

Subject: Environmental Engineering

Semester: 4th SEM (Second Year)

Unit- I

1. What is Population Forecasting method and water demand.
2. Draw a flow sheet of conventional water treatment plant.
3. What are the design steps of sedimentation tank?
4. Which of the Following type of pipe is used for conveyance of water?
5. What is pipe appurtenance?
6. WHO limits for drinking water quality?
7. What are characteristics of water?
8. Draw layout of conventional water treatment plant & explain in brief function of each unit.
9. List out the various Pipe Joints used in water supply scheme and explain expansion joint & Flange joint.


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QUESTION BANK

Subject: Environmental Engineering

Semester: 4th SEM (Second Year)

Unit- II

1. Explain the various types of coagulant
2. What is the coagulation and flocculation?
3. State various types of disinfectant used in water treatment.
4. Explain the layout of various water Distribution system
5. What is the principle of coagulation?
6. What is chlorination disinfection?
7. What are the requirements of distribution system?
8. What are the types of chlorination?
9. What are types of mixers used for flocculation in wastewater treatment?
10. What are the basic differences between between slow sand and rapid sand filters?


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QUESTION BANK

Subject: Environmental Engineering


Semester: 4th SEM (Second Year)

Unit- III

1. Define Black water & Grey water and Explain the data required in planning of sewerage system
2. Describe conservancy system & water carriage system of sanitation with their merits & demerits.
3. What is trap & explain various types of traps used in house plumbing system according to their shapes.
4. Discuss various stages involved in construction of sewers.
5. Write a short note on physical & chemical characteristics of wastewater.
6. Explain manhole with neat labeled diagram.
7. Explain in details Activated sludge process.
8. Explain the working of trickling filter with neat sketch.
9. Discuss in details about sewage forming
10. What are the different types of privies? Explain with neat sketch "Aqua Privy"


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QUESTION BANK

Subject: Environmental Engineering

Semester: 4th SEM (Second Year)

Unit- IV

1. What are the preliminary and primary treatments of wastewater?
2. Design grit chamber for a flow of 12 mld.
3. Draw a layout of conventional sewage Treatment plant & state its functions.
4. Write short note on sullage collection and disposal
5. Write short notes on any two. i) Imhoff tank. ii) Soak pit. iii) Bio gas recovery
6. Write short notes on - any two. i) Zero discharge concept ii) Sludge Digestion Tank
iii) Sludge drying bed iv) Activated sludge process


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QUESTION BANK

Subject: Environmental Engineering

Semester: 4th SEM (Second Year)

Unit- V

1. What is the climate change in the environment?
2. What harm does pollution do to the environment?
3. What are the types of solid municipal waste?
4. What is the difference between environmental management and sustainability management?
5. Explain Bag filter as Air pollution control equipment.
6. Write a note on "Effect of air pollution on man and materials".
7. Explain the cyclone separator to control air pollution.
8. Give classification of different air pollutants along with their source of generation
9. What are the metrological parameter influencing the air pollution.
10. Define air pollution & explain various sources of air pollutants.


Subject Incharge


HOD


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Ref No.: SSIT/CE/PTM/2023-24/ 62

Date: 13/09/2023

NOTICE

All the class Incharge are here by informed that parents teacher meet is scheduled on 18/09/2023.
Concern class incharge inform this to the students and parents and arrange the parents teacher meet.
Also they should prepare both the sessional marks list and cumulative attendance sheet.

HOD

HEAD

Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur

Copy To:

1. 3rd Sem Class Advisor
2. 5th Sem Class Advisor
3. 7th Sem Class Advisor

Principal

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Dist. Nagpur-441501



Ref No.: /CE/2023-24/PTM/01

Date: 13/09/2023

NOTICE

All the students of 2nd year, 3rd year, & 4th year are inform that the "Parents Teacher Meet" is schedule on date 18/09/2023 to their respective class room.

All the parents of our students are requested to attend the said meeting positively.

All the students are requested to inform their parents about the same.

HEAD

Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nag.

Copy To:

1. Principal
2. Dean Academics
3. All Class Incharge
4. Notice Board

Principal

Swaminarayan Siddhanta Institute
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Dist. Nagpur-441501



**Parents Teacher Meet
Attendance sheet (3rd Sem)**

Sr. No.	Students Name	Parents Signature
1	Aamer Shakil Khan	
2	Altamash Jamil Sheikh	Jamil sheikh
3	Anil Ramchandra Bhave	
4	Durgesh Dasaram Bopche	
5	Karansingh Ravisingh Rajput	
6	Tejas Gulabrao Bhoyar	G. Bhoyar
7	Wasim Mohsin Khan	

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**Parents Teacher Meet
Attendance sheet (5th Sem)**

Sr. No.	Students Name	Parents Signature
1	Dolly Manohar Bhujade	
2	Hina Keshorao Kapse	
3	Kanchan Devraj Goupale	Devraj. Goupale
4	Latasha Lumesh Raut	Lumesh Raut
5	Pragati Digamber Bisen	
6	Sharad Pandit	
7	Shital Omprakash Harinkhede	Harinkhede
8	Swati Jaychand Patle	
9	Ashish Ramdas Atram	Atram
10	Lukesh Dulichand Turkar	
11	Nikhil Arun Mundle	Arun Mundle
12	Sayyed Aman Sayyed Raheman	
13	Shailesh Arjun Patle	Arjun Patle
14	Tulsikar Tejas Udaylal	
15	Utkarsh Kamalkrishna Gupta	Gupta

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HEAD
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Parents Teacher Meet
Attendance sheet (7th Sem)

Sr. No.	Students Name	Parents Signature
1	Divyani Rashtrapal Meshram	<i>Meshram</i>
2	Manasi Prashant Denge	
3	Monika Shrirang Choudhari	
4	Sonali Vinod Bele	
5	Swati Hemraj Dongare	
6	Trupti Bhaurao Thakare	<i>B. Thakare</i>
7	Abdul Waqar Abdul Sayeed Khan	
8	Abhay Suresh Patle	
9	Ankit Tularam Jibhakate	<i>Jibhakate</i>
10	Dhananjay Khemchand Gokhale	
11	Kapil Prakash Rathod	
12	Ketan Dilip Yanaskar	<i>दीलीप येनसकर</i>
13	Krushna Dharmaji Kumare	
14	Mohammad Shoaib Farooque	
15	Nareshkumar Khemraj Gaidhane	
16	Ritik Subhash Gupta	
17	Rohit Lalji Yadav	<i>Yadav</i>
18	Sahil Ramesh Sontakke	
19	Jayshri Vilas Parwate	<i>विलास पारवते</i>


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Date: 19/09/2023

PARENT TEACHER'S MEETING REPORT (AY 2023-2024)

The college has organized a Parent-teacher meeting on 18/09/2023 in the college at 10:00 am. Total 15 Parents were present for the meet. The main purpose of meet was to create a common platform, where teacher and parents come together to enrich the student's educational experiences and discuss variety of issues, regarding all round development of students.

The Parent Teacher Meeting was conducted as per the following schedule

1. Parent Teacher gathering was started by tea and snacks.
2. After the refreshment Registration of parents at the registration desk started at 10:30 am.
3. Parent teacher meeting started with a speech of Prof. Rohit Deshmukh, HOD of Civil Department.
4. At the end Prof. Rajesh Ingole, Asst. Professor in Civil Engineering department shared his worthy experience with parent as well as faculty members of department.
5. Also, Parents were invited to express their views about the college, their views regarding the development of their wards and to come up with suggestions.
6. Vote of thanks to the parents was given by Prof. Pranjali Karhade.
7. After this parents went to meet the class-teachers, discussed about the academic performance of the students like class attendance, marks in class tests, internal marks and overall discipline in the campus.


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SWAMINARAYAN SIDDHANTA INSTITUTE OF TECHNOLOGY
Bachelor of Technology

Nagpur-Katal Highway Road, Khatpri (Kothe), Tah. Kalmeshwar, Nagpur-441501.

Theory Attendance Details Month- January

20-24

PP:- 14													PE:- 12			
Roll No.	1	3	5	8	10	12	15	17	19	22	24	26	29	31	P/A	%
1	P	P	P	P	A	P	P	A	P	P	A		P		9	75
2	P	P	P	P	P	P	P	P	A	P	P		P		10	83
3	P	P	P	P	A	P	P	A	P	P	P		P		11	91
4	A	P	P	P	P	P	P	A	P	P	P		P		10	83
5	P	P	P	A	A	A	P	P	P	P	P		P		9	75
6	A	A	P	P	P	P	P	P	A	P	P		P		9	75
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Sign.	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		

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SWAMINARAYAN SIDDHANTA INSTITUTE OF TECHNOLOGY

Bachelor of Technology

Nagpur-Katol Highway Road, Khasri (Kolhe), Tah. Kalmeshwar, Nagpur- 441501.

Practical Attendance Details Month- January

20 - 24

PP :- 5						PE :- 5						P/A	%	
Roll No.	2	9	16	23	30									
1	P	P	P	P	A								4	80
2	P	P	P	P	P								5	100
3	P	P	A	P	P								4	80
4	P	A	P	P	P								4	80
5	P	P	A	P	P								4	80
6	P	P	P	A	P								4	80
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	Deter. of Turbidity													
	Deter. Chlorides													
	Deter. of Solids													
	Deter. Acidity & Alkalinity													


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B.TECH DEPARTMENTAL ACADEMIC CALENDAR

SESSION: 2023-24

TERM: ODD (WINTER -2023)

SR. NO.	ACTIVITY	DATE
1.	Principal Meeting Odd Term Commencement	19/06/2023
2.	Time Table Display	23/06/2023
3.	Commencement of Odd Term	10/07/2023
4.	Mega Project Topic Finalization	28/07/2023
5.	Mega Project Introductory Seminar on Power Point Presentation (01)	12/08/2023
6.	Soft Skill Development Program	3 rd Week of August 2023
7.	Attendance Review I Syllabus Review I Feedback Review I	14/08/2023
8.	Submission of Assignment No. 1	17/08/2023 to 19/08/2023
9.	Sessional Exam No. 1	17/08/2023 to 23/08/2023
10.	Student Technical Activity/Workshop/ Guest Lecture	24/08/2023 to 26/08/2023
11.	Academic Monitoring no. 1	28/08/2023
12.	Remedial Coaching Started From	29/08/2023
13.	Mega Project Progress Seminar on Power Point Presentation (02)	11/09/2023
14.	Attendance Review II Syllabus Review II Feedback Review II	18/09/2023
15.	Submission of Assignment no. 2	18/09/2023 to 21/09/2023
16.	Sessional Exam No. 2	18/09/2023 to 25/09/2023


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17.	Departmental Event	4 th Week of September 2023
18.	Mega Project Progress Seminar on Power Point Presentation (03)	30/09/2023
19.	Submission of Assignment no. 3	09/10/2023 to 12/10/2023
20.	Student Industrial Visit	2 nd week of October
21.	End of Odd Term	16/10/2023
22.	Final Attendance Review III Final Syllabus Review III Final Feedback Review III	17/10/2023
23.	Final Academic Monitoring no. 2	18/10/2023
24.	Pre University Test	23/10/2023 to 28/10/2023
25.	Final Presentation on Mega Project (04)	30/10/2023
26.	Final Submission of Term Work	30/10/2023
27.	Tentative RTMNU Practical Exam	Last Week of October
28.	Tentative RTMNU Theory Exam	Last Week of October
29.	Next Semester Will Begin From	1 st December 2023

Copy to:-

- 1) Principal
- 2) Dean Academics
- 3) Circulation among Teaching Staff
- 4) Circulation among Students
- 5) All Notice Board
- 6) Concerned Persons

[Signature]
 HOD (ETC)
 Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.

[Signature]
Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501



Date: 04/12/2023

B.E. DEPARTMENTAL ACADEMIC CALENDAR

SESSION: 2023-24

TERM: EVEN (IV, VI, VIII)

SR. NO.	ACTIVITY	DATE
1.	Principal Meeting Even Term Commencement	Third Week of December
2.	Load calculation, Load Distribution, Time Table Display	Third Week of December
3.	Commencement of Even Term (Teaching Session)	20/12/2023
4.	Value added Course	02/01/2024 to 06/01/2024
5.	Student Forum Event under 'ELITE'	2 nd Week of January
6.	Submission of Assignment No. 1	27/01/2024
7.	Sessional Exam No. 1	31/01/2024 to 02/01/2024
8.	Remedial Coaching Started From	05/02/2024
9.	Annual Cultural Event	2 nd Week of February
10.	Guest Lecture/ Expert Lecture for Students	3 rd Week of February
11.	Presentation on Project	3 rd Week of February
12.	Industrial visit / Tour	5 th Week of February
13.	Submission of Assignment no. 2	29/02/2024
14.	Sessional Exam No. 2	04/03/2024 to 06/03/2024
15.	Tentative date of PTM	1 st Week of March
16.	Guest Lecture/ Expert Lecture for Students	2 nd Week of March
17.	Presentation on Project	2 nd Week of March
18.	Guest Lecture/ Expert Lecture for Students	3 rd Week of March

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19.	Submission of Assignment no. 3	29/03/2024
20.	Final Presentation on Project	1 st Week of April
21.	End of Even Term	08/04/2024
22.	Pre University Test	15/04/2024 to 22/04/2024
23.	Final Submission of Term Work	2 nd Week of April
24.	Tentative RTMNU Practical Exam	3 rd Week of April
25.	Tentative RTMNU Theory Exam	Last Week of April
26.	Next Semester will Begin From	3 rd Week of June 2024

Copy to:-

- 1) Principal
- 2) Dean Academics
- 3) IQAC Coordinator
- 4) Circulation among Students
- 5) All Notice Board
- 6) Circular among all faculties


HOD (ETC)

Department of Electronics & Telecommunication Engineering
Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur


Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501



Ref No. SSIT/ETC/2023-24/DM/01

Date: 16/06/2023

NOTICE

All the faculty members of Electronics and Telecommunication Engineering Department are hereby informed that meeting is scheduled on 19/06/2023 at 11 A.M. in HOD cabin.

Agenda of Meeting

- 1) Odd Semester Planning.
- 2) Subject Distribution.
- 3) Portfolio Discussion
- 4) Time Table Planning

Copy to:

1. The Principal
2. The Dean Academics
3. IQAC Coordinator
4. All teaching staff


HOD
HEAD

Dept. of Electronics & Telecommunication
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.


Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501



MINUTES OF MEETING

1. The Head of Department started the meeting by briefly explaining the purpose of the meeting.
2. Discussion with faculties about the session plan.
3. Subject allocation is done from HOD by preference given by the faculties.
4. Advised to Follow Session plan for successful implementation of all events during the session.
5. Instruction regarding teaching plan and practical plan are done.
6. Time table and work load distribution are done in the meeting.
7. He also informed that the Progress Review Meeting will be held at the end of every month for assessing the session plan implementation.
8. Planning of budget for the session.
9. Faculty queries regarding session plan was addressed.
10. Subject distribution
11. Portfolio discussion
12. Time table planning
13. Commencement of classes


HOD
HEAD

Dept. of Electronics & Telecommunication Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

Presided by: - Ms. Ankita Rekkawar
In attendance: - Ms. Pratiksha Musale
Mr. Sandeep Mendule
Ms. Reshma Pawar
Ms. Yogita Raut
Mr. Irfan Javed

NOTE: Circulation among all staff members.


Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501

MASTER TIME TABLE

DAY	SEM	9.45AM -10.45AM	10.45AM-11.45AM	11.45AM-12.45PM	12.45PM-01.15PM	01.15PM-02.15PM	02.15PM-03.15PM	03.15PM-04.15PM
MONDAY	IVth	MCA(TH)	ADC(TH)	ASD(TH)		DS&A(TH)	MCA(PR)	
	Vth	CCN(TH)	IOT(TH)	OE-I-MC(TH)		DMS(TH)	CCN(PR)	
	VIIIth	PEC-VI-MEMS(TH)	NPTEL	PEC-VII-SAT(TH)		PROJECT PHASE-II		
TUESDAY	IVth	MCA(TH)	ADC(TH)	ASD(TH)		DS&A(TH)	ADE(PR)	
	Vth	CCN(TH)	IOT(TH)	T & P		DMS(TH)	IOT(PR)	
	VIIIth	PEC-VI-MEMS(TH)	NPTEL	PEC-VII-SAT(TH)		PROJECT PHASE-II		
WEDNESDAY	IVth	MCA(TH)	ADC(TH)	ASD(TH)		PPS(TH)	PPS(PR)	
	Vth	WSN(TH)	HSC-ETC(TH)	T & P		DMS(T)	WSN(PR)	
	VIIIth	NPTEL	PEC-VI-MEMS(TH)	PEC-VII-SAT(TH)	LUNCH BREAK	PROJECT PHASE-II		
THURSDAY	IVth	MCA(TH)	HSC-NAM(TH)	UHV(TH)		ADC(T)	PPS(PR)	
	Vth	WSN(TH)	NPTEL	T & P		OE-I-MC(TH)	MINI PROJECT	
	VIIIth	NPTEL	PEC-VI-MEMS(TH)	PEC-VII-SAT(TH)		PROJECT PHASE-II		
FRIDAY	IVth	DS&A(TH)	HSC-NAM(TH)	PPS(TH)		ASD(T)	LHV(TH)	
	Vth	HSC-ETC(TH)	LIBRARY	MINI PROJECT		OE-I-MC(A)	SPORTS	
	VIIIth	NPTEL	PEC-VI-MEMS(TH)	PEC-VII-SAT(TH)		LIBRARY	SPORTS	
SATURDAY	IVth	TG	HSC:NAM(TH)			T & P	NPTEL	SPORTS
	Vth	TG	LIBRARY			T & P	CO-CURRICULAR ACTIVITY	
	VIIIth	TG	LIBRARY			T & P	CO-CURRICULAR ACTIVITY	

IVth Semester		Vth Semester		VIIIth Semester	
MCA	Ms. Reshmi Pawar	CCN	Ms. Yogita Raut	PEC-VI-MEMS	Ms. Ruchra R. Shastrakar
ASD	Ms. Ankita V. Rekkawar	WSN	Ms. Ruchra R. Shastrakar	PEC-VII-SAT	Ms. Yogita Raut
ADC	Ms. Yogita Raut	HSC-ETC	Mr. Ramesh Kadakar	PROJECT PHASE-II	Ms. Ankita V. Rekkawar
DS&A	Ms. Ruchra R. Shastrakar	IOT	Ms. Reshmi Pawar		
PPS	Ms. Pratiksha Musale	OE-I-MC	Ms. Ruchra R. Shastrakar		
HSC:NAM	Ms. Ashwini Borkute	DMS(TH)	Ms. Pratiksha Musale		
UHV	Ms. Prachi Bhure	MINI PROJECT	Mr. Sandeep Mendhule		

Time Table Page

- Copy to-
- 1) Principal Office
 - 2) IQAC Coordinator
 - 3) Dean Academics

Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501

- 4) Concerned Faculties
- 5) Notice Board of ME Department

Dept. of Electronics & Telecommunication Engg
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

HBAD



TIME TABLE FOR ACADEMIC SESSION 2023-24 (ODD SEM)
W.E. F. DATE 10/07/2023

DAY	SEM	9:45 to 10:45 AM	10:45 to 11:45 AM	11:45 to 12:45 PM	12:45 to 1:15 PM	1:15 to 2:15 PM	2:15 to 3:15 PM	3:15 to 4:15 PM
MONDAY	3 rd	AM-III	NT	CECD	MECHANICAL	S&S	DSD LAB	
	5 th	OS	ESD	DSP		EW	DSP LAB	
	7 th	WMC	DS&CC	M.T		FML	IPR	LIBRARY
TUESDAY	3 rd	AM-III	DSD	CECD		CONSUMER AFFAIR	EWS-I LAB	
	5 th	ESD	IEED	EW		OS	IEED	DSP
	7 th	DS&CC	FML	WMC		IPR	WMC LAB	
WEDNESDAY	3 rd	AM-III	NT	CECD		LIBRARY	DSD	M&I
	5 th	EW	ESD	OS		DSP	ESD LAB	
	7 th	WMC	DS&CC	M.T		LIBRARY	Project Phase-I	
THURSDAY	3 rd	AM-III	NT	M&I		DSD	CECD LAB	
	5 th	IEED	ESD	DSP		OS	EW	DSP
	7 th	DS&CC	M.T	FML		LIBRARY	Project Phase-I	
FRIDAY	3 rd	AM-III (TU)	CECD	DSD		M&I	S&S	NT
	5 th	EW	OS	ESD		LIBRARY	EWS-II LAB	
	7 th	WMC	DS&CC	M.T		LIBRARY	DS&CC LAB	
SATURDAY	3 rd	CECD	DSD (TU)	NT		S&S	CONSUMER AFFAIR	LIBRARY
	5 th	IEED (TU)	OS (TU)	ESD		EW (TU)	SPORTS	
	7 th	IPR (TU)	WMC (TU)	FML		LIBRARY	SPORTS	

3 rd ETC	
AM-III	Ms. Sanjukta Ash
CECD	Ms. Reshma Pawar
DSD	Ms. Yogita Raut
NT	Mr. Sandeep Mendhule
S&S	Ms. Reshma Pawar
MI	Mr. Sandeep Mendhule
EWS I	Mr. Sandeep Mendhule
CA	Ms. Pratiksha Musale

5 th ETC		7 th ETC	
ESD	Ms. Reshma Pawar	FML	Dr. Pratik Hajare
EW	Ms. Yogita Raut	WMC	Ms. A.V. Rekkawar
DSP	Mr. Irfan Javed	IPR	Ms. Pratiksha Musale
IEED	Dr. Dey	Mechatronics	Ms. Pratiksha Musale
OS (Elective)	Ms. Prachi Bhure	DS & CC	Ms. Yogita Raut
EWS-II	Mr. Sandeep Mendhule	Project Phase-I	Ms. A.V. Rekkawar

Yogita Raut
Time Table In-Charge

Copy to-

1. Principal Office
2. IQAC Co-ordinator
3. Dean Academics
4. Concerned Faculties
5. Departmental Notice Board

Pratik Hajare
HEAD
 Dept. of Electronics & Telecommunication Engg.,
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.

Pratik Hajare
Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501



SEMESTER TIME TABLE FOR ACADEMIC SESSION 2023-24 (ODD SEM)
W.E. F. DATE 10/07/2023

DAY	SEM	9:45 to 10:45 AM	10:45 to 11:45 AM	11:45 to 12:45 PM	12:45 to 1:15 PM	1:15 to 2:15 PM	2:15 to 3:15 PM	3:15 to 4:15 PM
MONDAY	5 th	OS	ESD	DSP	RECESS	EW	DSP LAB	
TUESDAY	5 th	ESD	IEED	EW		OS	IEED	DSP
WEDNESDAY	5 th	EW	ESD	OS		DSP	ESD LAB	
THURSDAY	5 th	IEED	ESD	DSP		OS	EW	DSP
FRIDAY	5 th	EW	OS	ESD		LIBRARY	EWS-II LAB	
SATURDAY	5 th	IEED (TU)	OS (TU)	ESD		EW (TU)	SPORTS	

5 th ETC	
ESD	Ms. Reshma Pawar
EW	Ms. Yogita Raut
DSP	Mr. Irfan Javed
IEED	Dr. Dey
OS (Elective)	Ms. Prachi Bhure
EWS-II	Mr. Sandeep Mendhule

Jyoti Raut
 Time Table In-Charge

Copy to-

1. Principal Office
2. IQAC Co-ordinator
3. Dean Academics
4. Concerned Faculties
5. Departmental Notice Board

[Signature]
 HOD
 HEAD
 Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.

[Signature]
Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501



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MONDAY	3 rd	AM-III	NT	CECD	RECESS	S&S	DSD LAB	
TUESDAY	3 rd	AM-III	DSD	CECD		CONSUMER AFFAIR	EWS-I LAB	
WEDNESDAY	3 rd	AM-III	NT	CECD		LIBRARY	DSD	M&I
THURSDAY	3 rd	AM-III	NT	M&I		DSD	CECD LAB	
FRIDAY	3 rd	AM-III (TU)	CECD	DSD		M&I	S&S	NT
SATURDAY	3 rd	CECD	DSD (TU)	NT		S&S	CONSUMER AFFAIR	LIBRARY

3 rd ETC	
AM-III	Ms. Sanjukta Ash
CECD	Ms. Reshma Pawar
DSD	Ms. Yogita Raut
NT	Mr. Sandeep Mendhule
S&S	Ms. Reshma Pawar
MI	Mr. Sandeep Mendhule
EWS I	Mr. Sandeep Mendhule
CA	Ms. Pratiksha Musale

Yogita Raut
 Time Table In-Charge

Copy to-

1. Principal Office
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3. Dean Academics
4. Concerned Faculties
5. Departmental Notice Board

Princip
 HOD
 HEAD

Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.

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 Principal

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MONDAY	7 th	WMC	DS&CC	MT	RECESS	FML	IPR	LIBRARY
TUESDAY	7 th	DS&CC	FML	WMC		IPR	WMC LAB	
WEDNESDAY	7 th	WMC	DS&CC	M.T		LIBRARY	Project Phase-I	
THURSDAY	7 th	DS&CC	MT	FML		LIBRARY	Project Phase-I	
FRIDAY	7 th	WMC	DS&CC	M.T		LIBRARY	DS&CC LAB	
SATURDAY	7 th	IPR (TU)	WMC (TU)	FML		LIBRARY	SPORTS	

7 th ETC	
FML	Dr. Pratik Hajare
WMC	Ms. A.V. Rekkawar
IPR	Ms. Pratiksha Musale
Mechatronics	Ms. Pratiksha Musale
DS & CC	Ms. Yogita Raut
Project Phase-I	Ms. A.V. Rekkawar

Yog Raut
 Time Table In-Charge

Copy to-

1. Principal Office
2. IQAC Co-ordinator
3. Dean Academics
4. Concerned Faculties
5. Departmental Notice Board

APK
 H.O.D.
 HEAD
 Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.

APK
Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501

Sarvavidyalaya Education Society's

Swaminarayan Siddhanta Institute of Technology
 Affiliated to Kashiwantrao Tukadoji Maharaj Nagpur University
 Nagpur-Kantol Highway Road, Kharol (Kantol),
 Tal: Kalmeshwar, Nagpur, Maharashtra-441501
 Department of Electronics and Telecommunication Engineering



SESSION 2023-24 (EVEN)

W.E.F. Date: 20/12/2023

SEMESTER TIME TABLE

DAY	SEM	9.45AM-10.45AM	10.45AM-11.45AM	11.45AM-12.45PM	12.45PM-01.15PM	01.15PM-02.15PM	02.15PM-03.15PM	03.15PM-04.15PM
MONDAY	IVth	MCA(TH)	ADC(TH)	ASD(TH)	LUNCH BREAK	DS&A(TH)	MCA(PR)	
TUESDAY	IVth	MCA(TH)	ADC(TH)	ASD(TH)		DS&A(TH)	ADE(PR)	
WEDNESDAY	IVth	MCA(TH)	ADC(TH)	ASD(TH)		PPS(TH)	PPS(PR)	
THURSDAY	IVth	MCA(T)	HSC:NAM(TH)	UHV(TH)		ADC(T)	PPS(PR)	
FRIDAY	IVth	DS&A(TH)	HSC:NAM(TH)	PPS(TH)		ASD(T)	UHV(TH)	
SATURDAY	IVth	TG	HSC:NAM(TH)			T & P	NPTEL	SPORTS

IVth Semester	
MCA	Ms. Reshma Pawar
ASD	Ms. Ankita V. Rekkawar
ADC	Ms. Yogita Raut
DS&A	Ms. Rucha R. Shastrakar
PPS	Ms. Pratiksha Musale
HSC:NAM	Ms. Ashwini Borkute
UHV	Ms. Prachi Nihare

Reshma
 Time Table Incharge

- Copy to- 1) Principal Office
 2) Dean Academics
 3) IQAC Coordinator

Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501

- 4) Concerned Faculties
 Notice Board of ME Department

[Signature]
 HEAD

Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.

Sarasiddhanta Education Society's

Swaminarayan Siddhanta Institute of Technology

Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University

Nagpur-Katol Highway Road, Katol (Kothne),

Tel: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Electronics and Telecommunication Engineering

SESSION 2023-24 (EVEN)

W.E.F. Date:-20/12/2023

SEMESTER TIME TABLE

DAY	SEM	9.45AM-10.45AM	10.45AM-11.45AM	11.45AM-12.45PM	12.45PM-01.15PM	01.15PM-02.15PM	02.15PM-03.15PM	03.15PM-04.15PM
MONDAY	Vth	CCN(TH)	IOT(TH)	OE-I-MC(TH)	LUNCH BREAK	DMS(TH)	CCN(PR)	
TUESDAY	Vth	CCN(TH)	IOT(TH)	T & P		DMS(TH)	IOT(PR)	
WEDNESDAY	Vth	WSN(TH)	HSC.ETC(TH)	T & P	DMS(TH)	WSN(PR)		
THURSDAY	Vth	WSN(TH)	NPTEL	T & P	OE-I-MC(TH)	MINI PROJECT		
FRIDAY	Vth	HSC:ETC(TH)	LIBRARY	MINI PROJECT	OE-I-MC(TH)	SPORTS		
SATURDAY	Vth	TG	LIBRARY		T & P	CO-CURRICULAR ACTIVITY		

Vth Semester	
CCN	Ms.Yogita Raut
WSN	Ms.Rucha R. Shastrakar
HSC-ETC	Mr.Ramesh Kadukar
IOT	Ms. Reshima Pawar
OE-I-MC	Ms.Rucha R. Shastrakar
DMS	Ms. Pratiksha Musale
MINI PROJECT	Mr.Sandeep Mendhale

Time Table Incharge

- Copy to- 1) Principal Office
2) Dean Academics
3) IQAC Coordinator

Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501

- 4) Concerned Faculties
5) Notice Board of ME Department

HEAD
Dept. of Electronics & Telecommunication Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.



Swaminarayan Education Society's
 Swaminarayan Siddhanta Institute of Technology
 Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University
 Nagpur-Katoji Highway Road, Khatop (Khatol),
 Tal- Kalmeshwar, Nagpur, Maharashtra-441501
 Department of Electronics and Telecommunication Engineering

SESSION 2023-24 (EVEN)

W.E.F. Date: 30/12/2023

SEMESTER TIME TABLE

DAY	SEM	9.45AM-10.45AM	10.45AM-11.45AM	11.45AM-12.45PM	12.45PM-01.15PM	01.15PM-02.15PM	02.15PM-03.15PM	03.15PM-04.15PM
MONDAY	VIIIth	PEC-VI-MEMS(TH)	NPTEL	PEC-VII-SAT(TH)	LUNCH BREAK	PROJECT PHASE-II		
TUESDAY	VIIIth	PEC-VI-MEMS(TH)	NPTEL	PEC-VII-SAT(TH)		PROJECT PHASE-II		
WEDNESDAY	VIIIth	NPTEL	PEC-VI-MEMS(TH)	PEC-VII-SAT(TH)		PROJECT PHASE-II		
THURSDAY	VIIIth	NPTEL	PEC-VI-MEMS(TH)	PEC-VII-SAT(TH)		PROJECT PHASE-II		
FRIDAY	VIIIth	NPTEL	PEC-VI-MEMS(TH)	PEC-VII-SAT(TH)	LIBRARY	SPORTS		
SATURDAY	VIIIth	TG	LIBRARY		T & P	CO-CURRICULAR ACTIVITY		

VIIIth Semester	
PEC-VI-MEMS	Ms. Rucha R. Shastrakar
PEC-VII-SAT	Ms. Yogita Raut
PROJECT PHASE-II	Ms. Anshita V. Rekkawar

Principle
 Time Table In-charge

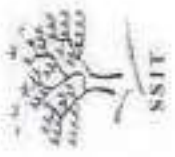
- Copy to- 1) Principal Office
 2) Dean Academics
 3) IQAC Coordinator

Principal
Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501

4) Concerned Faculties
 Notice Board of ME Department

Head
HEAD
 Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur

Sarvasiddhanta Education Society's
Swaminarayan Siddhanta Institute of Technology
 Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University
 Nagpur-Katol Highway Road, Khatpri (Kothne),
 Tal: Kalmeshwar, Nagpur, Maharashtra-441501
Department of Electronics and Telecommunication Engineering



SESSION 2023-24 (EVEN)

W.E.F. Date:- 20/12/2023

PERSONAL TIME TABLE

DAY	SEM	9.45AM-10.45AM	10.45AM-11.45AM	11.45AM-12.45PM	12.45PM-01.15PM	01.15PM-02.15PM	02.15PM-03.15PM	03.15PM-04.15PM
MONDAY	IVth					DS&A(TH)		
	Vth			OE-I-MC(TH)				
	VIIIth	PEC-VI-MEMS(TH)						
TUESDAY	IVth					DS&A(TH)		
	Vth							
	VIIIth	PEC-VI-MEMS(TH)						
WEDNESDAY	IVth							
	Vth	WSN(TH)						WSN(PR)
	VIIIth		PEC-VI-MEMS(TH)					
THURSDAY	IVth							
	Vth	WSN(TH)						
	VIIIth		PEC-VI-MEMS(TH)			OE-I-MC(TH)		
FRIDAY	IVth							
	Vth	DS&A(TH)						
	VIIIth		PEC-VI-MEMS(TH)			OE-I-MC(TH)		
SATURDAY	IVth							
	Vth							
	VIIIth							
IVth Semester		Vth Semester		VIIIth Semester				
DS&A	Ms. Ruchita R. Shastrakar	WSN	Ms. Ruchita R. Shastrakar	PEC-VI-MEMS	Ms. Ruchita R. Shastrakar	PEC-VI-MEMS	Ms. Ruchita R. Shastrakar	

(Signature)
 Subject-charge

(Signature)
Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501

(Signature)
HEAD

Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.



Subject: MECHATRONICS

Semester: B.Tech 7th Semester / ETC

CONTENTS

- University Academic Calendar (2023-24)
- Institute Academic Calendar (2023-24)
- Departmental Academic Calendar (2023-24)
- Department Timetable
- Semester Timetable
- Personal Timetable
- Student list
- Scheme and Syllabus with list of Test & Reference Book
- Teaching Plan
- Assignments
- Assignment Mark sheet
- Sessional Question Papers
- Sessional Mark sheet
- PUT Question Paper
- PUT Mark sheet
- University Question Papers
- Question Bank


Subject Incharge


Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501


HOD (ETC)
HEAD
Dept. of Electronics & Telecommunication Engg.
Swaminarayan Siddhanta Inst
of Technology, Kalmeshwar, Nagpur

**Subject: Microcontroller and Applications****Semester: B.Tech. IVth****TEACHING PLAN**

Unit No.	Lecture No.	Topics	Plan Date	Execute Date
Unit 1: Introduction to Microcontrol lers	1.	Overview of MC-51 family	08/01/24	08/01/24
	2.	Architecture and Programming Model of 8051	09/01/24	09/01/24
	3.	Instruction Set	10/01/24	10/01/24
	4.	Assembly Language Programming	11/01/24	11/01/24
	5.	Assembly Language Programming	15/01/24	15/01/24
	6.	Assembly Language Programming	16/01/24	16/01/24
	7.	Stack, Interrupt, Timers	17/01/24	17/01/24
	8.	Serial Communication	18/01/24	18/01/24
	9.	SFRs, PPI and Port Programming	22/01/24	22/01/24
Unit 2: Applications of 8051 Microcontrol ler	10.	Interfacing and Programming of - Memory	23/01/24	23/01/24
	11.	Interfacing and Programming of LED / LCD Display	24/01/24	24/01/24
	12.	Interfacing and Programming of Keyboard, Stepper & DC Motor	25/01/24	25/01/24
	13.	Interfacing and Programming of A/D and D/A.	29/01/24	29/01/24
	14.	Introduction to CAN, Bluetooth and USB protocols	30/01/24	05/02/24
	15.	Interfacing of CAN, Bluetooth and USB protocols	31/01/24	06/02/24
	16.	Water Level Controller	01/02/24	07/02/24
Unit 3: Integrated Development Environment (Ide) For Microcontrol lers	17.	Editor, linker, Loader	05/02/24	12/02/24
	18.	Debugger, Simulator and Emulator	06/02/24	13/02/24
	19.	Instruction Set and Formats	07/02/24	14/02/24
	20.	Assembler Directives	08/02/24	15/02/24
	21.	Addressing Modes of AVR Microcontroller	12/02/24	20/02/24
	22.	Basic programming using AVR assembly instructions	13/02/24	21/02/24
	23.	Basic programming using AVR assembly	14/02/24	22/02/24

Principal

Swaminarayan Siddhanta Institute
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Dist. Nagpur-441501



		instructions		
	24	Basic programming using AVR assembly instructions	15/02/24	26/02/24
	25	Introduction to Embedded- C	20/02/24	27/02/24
	26	Integrated Development Environment (IDE)	21/02/24	28/02/24
	27	Cross compiler, ISP	22/02/24	29/02/24
	28	Simple program for delay generation.	26/02/24	13/03/24
	29	Simple program for delay generation.	27/02/24	14/03/24
Unit 4: Introduction to Other Advanced Microcontrol lers	30	Introduction to ARM	28/02/24	18/03/24
	31	PIC Processors of MSP 430 Microcontroller	29/02/24	19/03/24
	32	16 bit Micro-controllers Overview features	01/03/24	20/03/24
	33	16 bit Micro-controller Architecture	05/03/24	21/03/24
	34	Addressing Modes	06/03/24	26/03/24
	35	Low power feature of MSP 430.	07/03/24	27/03/24
	36	Arduino Introduction to Arduino	11/03/24	28/03/24
Unit 5: Introduction to Arduino	37	Arduino Pin configuration	12/03/24	01/04/24
	38	Arduino Architecture	13/03/24	02/04/24
	40	Device and platform features	14/03/24	03/04/24
	41	Concept of digital and analog ports	18/03/24	04/04/24
	42	Familiarizing with Arduino Interfacing Board	19/03/24	08/04/24
	43	Introduction to Embedded C	20/03/24	08/04/24
	44	Introduction to Arduino platform.	21/03/24	10/04/24
				26/03/24

Subject In-charge

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HOD
 Department of Electronics & Telecommunication Engineering
 Swaminarayan Siddhanta Institute of Technology,
 Kalmeshwar, Nagpur



Subject: Microcontroller and Applications Lab

Semester: B.Tech. IVth

TEACHING PLAN

Sr. No	Content	Hours	Plan Date	Actual Date	
				Execution Date	Submission Date
1	ALP for 8051 to convert two digit decimal numbers present in external data memory into its equivalent ASCII code	02	08/01/24	08/01/24	15/01/24
2	Write and execute ALP for 8051 to swap nibbles of 10 bytes present in external data memory.	02	15/01/24	15/01/24	22/01/24
3	Interface 8 LEDs with 8051 and write a program to glow alternate LEDs. Modify the experiment further to blink an LED lamp of 230V AC/10W with an on and off time of 1 Second.	02	22/01/24	22/01/24 29/01/24	29/01/24
4	Interface stepper motor with AVR Atmega32 microcontroller and write a program to rotate in clockwise and anticlockwise direction at a speed of 150 RPMs.	02	29/01/24	05/02/24	05/02/24
5	Design an interfacing of alphanumeric display with AVR Atmega32 and generate all numbers from 0 to 9 and all letters from A to Z with a time duration of 1 second.	02	05/02/24	12/02/24	12/02/24
6	Establish Serial Communication between two MSP 430 microcontrollers	02	12/02/24	26/02/24	26/02/24
7	Interface MSP 430 microcontroller with a matrix keyboard and display different characters on LCD.	02	26/02/24	18/03/24	18/08/24
8	Write a program to generate saw tooth waveform of frequency 1kHz with Arduino	02	02/03/24	01/04/24	01/04/24
9	Mini project	02	11/03/24	08/04/24	10/04/24

Subject In-charge

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 Dist. Nagpur-441501

HEAD
 Dept. of Electronics & Telecommunication Engineering
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.



Ref. No.: SSIT/ETC/2023-24/4-A

Date: 12/02/2024

To,
Mr. Akshay Gawhare,
CEO,
Megatronics Multitech System,
Nagpur.

Subject: Invitation for Expert Lecture on 'Lean manufacturing and its application in different industries'

Dear Sir/Madam,

We are extremely pleased to inform you that Department of Electronics & Telecommunication Engineering of Swaminarayan Siddhanta Institute of Technology, Khapri, Kalmeshwar, Nagpur is organizing **Expert Lecture on 'Lean manufacturing and its application in different industries'** for Electronics & Telecommunication Engineering Department students on 16-02-2024. We believe your guidance will be very helpful to our students. We would be pleased and honored if you will share your knowledge. Looking forward for your cooperation and will be obliged to see you here.

Thanking you.

*Received
Group
13/02/2024*

[Signature]
Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501

[Signature]
Head of Department
HEAD
Dept. of Electronics & Telecommunication Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

Swaminarayan Siddhanta Institute of Technology

College : Nagpur - Katol Highway Road, Khapri (Kothe), Tah. Kalmeshwar, Nagpur-441 501.

Email: info@ssitngp.com, Website: www.ssitngp.com



Ref No.: SSIT/ETC/2023-24/4-B

Date: 14/02/2024

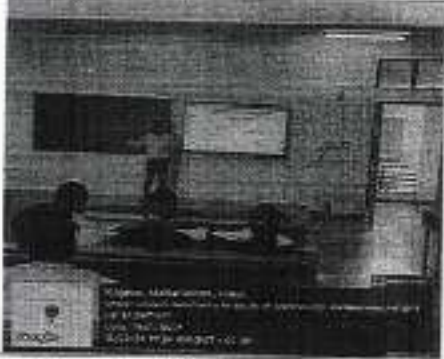
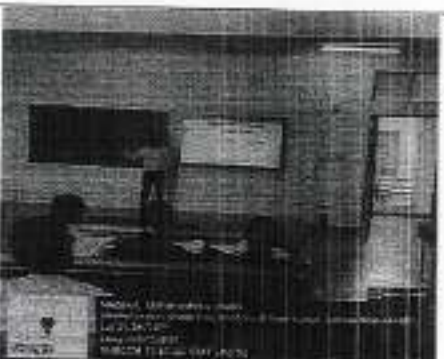
NOTICE

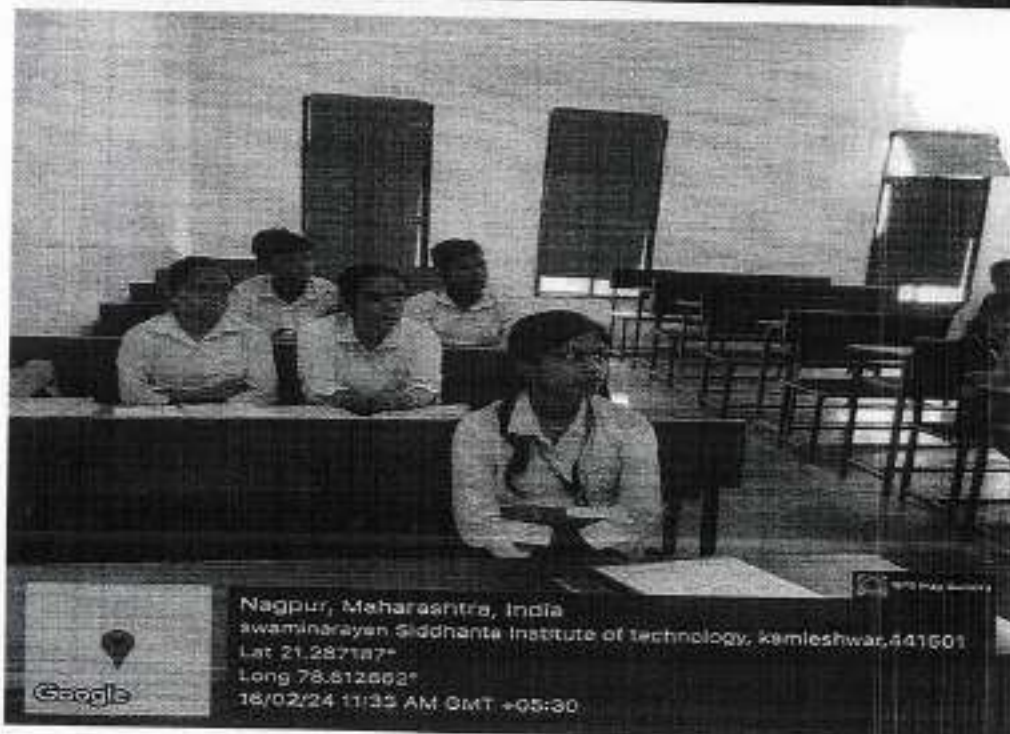
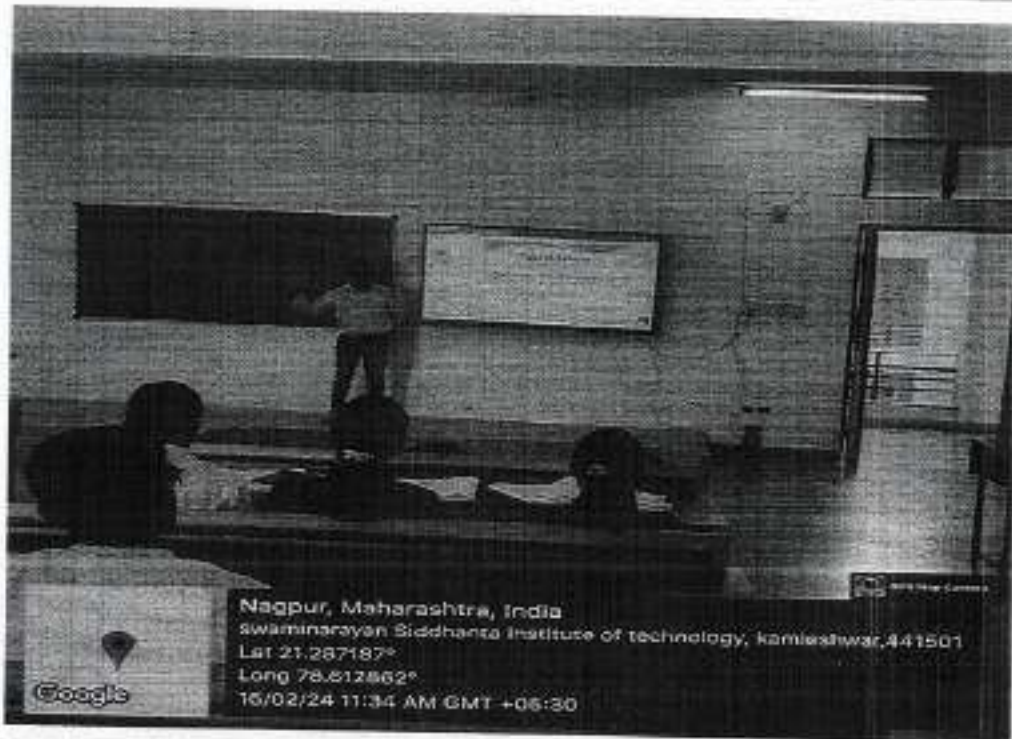
Department of Electronics and Telecommunication Engineering in collaboration with IQAC is going to arrange **Expert Lecture** on '**Lean manufacturing and its application in different industries**' for second year, third year and final year students of Electronics and Telecommunication Engineering on 16/02/2024 at 12.15 pm. It is mandatory to attend this Expert Lecture.

- Copy to :- 1) Principal
2) Dean Academics
3) IQAC
4) Circulation among Teaching Staff of ETC
5) Circulation among classes of ETC
6) Departmental notice board


Head of Department
HEAD
Dept. of Electronics & Telecommunication Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.


Principal
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Dist. Nagpur-441501

SUMMARY REPORT	
Title	Lean manufacturing and its application in different industries
Name of Activity	Expert Lecture
Date	16 th February 2024
Venue	Swaminarayan Siddhanta Institute of Technology, Nagpur
Organized by	Department of Electronics and Telecommunication Engineering & IQAC
Resource Person	Mr. Akshay Gawhare
Participated by	24 Students
Activity In-charge	Ms. Reshma Pawar, Mr. Amit Gedam
Program Content	<ol style="list-style-type: none"> 1. Introduction 2. Lean Manufacturing 3. Lean Principles 4. Lean Benefits 5. 7 Wastes of Lean in Garment Manufacturing 6. 8 Preferred Lean Manufacturing Tools for Garment Industry 7. Lean Implementation Model 8. Lean Design and Implementation
Program Objective	The aim of expert lecture is to discuss about real time experience in industries how to industries grow now a day of their principles and their rule and regulations and which types of model work on industries.
Program Outcome	In this expert lecture, how to join the job in manufacturing industries, and how to secure your job in those industries and also how to improve your skill in that field, and improve behaviors of employee.
<div style="display: flex; justify-content: space-around;">   </div>	
Name of Activity:- Expert Lecture Date:-16th February 2024(01:15 AM to 02:40 PM)	



Principal
Principal
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of Technology, Kalmeshwar,
Dist. Nagpur-441501



Date: 16/02/2024

**Expert Lecture
 On Topic**

"Lean manufacturing and its application in different industries"

Sr. No.	Name of Student	Signature
01	Gayatri Rajendra Warthi	
02	Ashish Shivaji Kamble	
03	Praywan Suresh Rahate	
04	Babita Vijay Pragapati	
05	Sonali P. Joshi	
06	Rashant S. Dhame	
07	Amrta S. Katade	
08	Akhilak A. Shambhakar	
09	Amisha Karmakar	
10	Apurva P. Tiwari	
11	Madhura V. Kant	
12	Amrta S. Katade	
13	Shantanu Jadhav	
14	Chandul Naughe	
15	Ashwajit Naranje	
16	Deepak B. Bawankar	
17	Yash Dhobekar	
18	Kundan T. Gadgil	
19	Varshnavi S. Sakinala	
20	Pooja N. Meshram	
		HEAD

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 Dist. Nagpur-441501

Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.



SSIT

Ref. No.: SSIT/ETC/2023-24/4-C

Date: 16-02-2024

To,
Mr. Akshay Gawhare,
CEO,
Megatronics Multitech System,
Nagpur,

Appreciation Letter

Dear Sir/Madam,


It was a wonderful experience having you at Electronics & Telecommunication Engineering Department of Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur among all of us. We were truly motivated by your presence of compassion and vigor for **Expert Lecture on 'Lean manufacturing and its application in different industries'** for second, third and final year students. We believe that this meeting of ours will certainly turn out to be a remarkable one for the budding engineer's in their field of excellence.

Sir/Madam, we would like to extend our humble gratitude to you for spending your precious time with us. It was our privilege to have you here with us.

Thanking you.

Received
16/02/2024


Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501


Head of Department
HEAD
Dept. of Electronics & Telecommunication En
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpu

Swaminarayan Siddhanta Institute of Technology

College : Nagpur - Katol Highway Road, Khapri (Kothe), Tah. Kalmeshwar, Nagpur-441 501.

Email: info@ssitngp.com, Website: www.ssitngp.com



Ref No.:SSIT/ETC/S-1/23-24/1


Date:- 27/01/2024

NOTICE**Session 2023-24 (Even)**

All the students of Electronics & TeleCommunication Engineering Department are here by informed that **First Sessional Examination** is commencing from **31/01/2024**. Kindly follow the time table given below.

DATE	TIME	IV SEMESTER (RTMNU)	VI SEMESTER (RTMNU)	VIII SEMESTER (RTMNU)
31/01/24	11:00 AM to 12:00 PM	Microcontrollers & Applications	Computer Communication Network	PE-VI - MEMS
	01:30 PM to 02:30 PM	Analog & Digital Communications	Internet of Things	-
01/02/24	11:00 AM to 12:00 PM	Analog System Design	Wireless Sensor Network	PE- VII - Satellite Communication
	01:30 PM to 02:30 PM	Data structure & Algorithm	Database Management Systems	-
02/02/24	11:00 AM to 12:00 PM	HSC: Numerical Mathematics and Probability Using MATLAB	Mobile Computing	-
	01:30 PM to 02:30 PM	Programming for problem solving	Effective Technical Communication	-
03/02/24	11:00 AM to 12:00 PM	Universal Human Values	-	-


Examination In charge


Head of Department
HEAD

Dept. of Electronics & Telecommunication Engg
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

Copy to:

1. Principal
2. Dean Academic's
3. IQAC Coordinator
4. Circulation among all the students
5. Notice Board


Principal
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SESSIONAL -1

Session 2023-2024 (Even)

Subject: -DATA STRUCTURE AND ALGORITHM

(BEETC-405T/BEEN-405T/BEEC-405T)

Semester: 4th	Max Marks: 20	Time – 1 Hour (01.30 pm - 02:30 pm)	Date : 01/02/2024
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- Instructions:** 1. All questions carry marks as indicated.
 2. Solve Question 1 **OR** Question 2.
 3. Solve Question 3 **OR** Question 4.

Sr. No.	Questions	Marks	COs mapped
Q1A	Define Data Structure. List different operations performed on data structure.	6	CO1
Q1B	Write short note on Time space trade off.	4	CO1
OR			
Q2A	Differentiate between row major and column major array index notation.	4	CO1
Q2B	Explain the term Abstract data types. Bring out its significance.	6	CO1
Q3A	What are the types of data structure algorithm?	4	CO1
Q3B	What do you understand by the term time and space complexity? Explain with one example.	6	CO1
OR			
Q4A	Write short note on Bubble sort and insertion sort.	4	CO1
Q4B	What is mean by circular queue and priority queue? Write a function to insert and delete an element from a circular queue.	6	CO1


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Ref No.:SSIT/ETC/S-2/23-24/1

Date:- 27/02/2024

NOTICE**Session 2023-24 (Even)**

All the students of **Electronics & TeleCommunication Engineering Dept.** are here by informed that **Second Sessional Examination** is commencing from **04/03/2024**. Kindly follow the time table given below.

DATE	TIME	IV SEMESTER (RTMNU)	VI SEMESTER (RTMNU)	VIII SEMESTER (RTMNU)
4/03/24	11:00 AM to 12:00 PM	Microcontrollers & Applications	Computer Communication Network	PE-VI - MEMS
	01:30 PM to 02:30 PM	Analog & Digital Communications	Internet of Things	-
05/03/24	11:00 AM to 12:00 PM	Analog System Design	Wireless Sensor Network	PE- VII - Satellite Communication
	01:30 PM to 02:30 PM	Data structure & Algorithm	Database Management Systems	-
06/03/24	11:00 AM to 12:00 PM	HSC: Numerical Mathematics and Probability Using MATLAB	Mobile Computing	-
	01:30 PM to 02:30 PM	Programming for problem solving	Effective Technical Communication	-
07/03/24	11:00 AM to 12:00 PM	Universal Human Values	-	-


Examination-In charge


Head of Department

HEAD

Dept. of Electronics & Telecommunication Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

Copy to:

1. Principal
2. Dean Academic's
3. IQAC Coordinator
4. Circulation among all the students
5. Notice Board


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Dist. Nagpur-441501

SESSIONAL EXAM –II

Session 2023-2024 (Even)

Subject: -Data structure and Algorithm (BEETC-405T)

Semester: 4th	Max Marks: 20	Time – 1 Hour (01.30 pm - 02:30 pm)	Date : 05/03/2024
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- Instructions:** 1. All questions carry marks as indicated.
 2. Solve Question 1 **OR** Question 2.
 3. Solve Question 3 **OR** Question 4.

Sr. No.	Questions	Marks	COs mapped
Q1A	Explain Binary search Tree (BTS) with example.	4	CO3
Q1B	Explain and implement a single linked list with an example.	6	CO3
OR			
Q2A	What is priority queue? Implement using a linked list.	6	CO3
Q2B	Explain spanning tree with example.	4	CO3
Q3A	What is graph? Explain how graphs are represented.	6	CO3
Q3B	Explain Adjacency matrix.	4	CO3
OR			
Q4A	Explain Adjacency list.	4	CO3
Q4B	Explain how minimal spanning trees are constructed with an example.	6	CO3


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Date:- 02/04/2024


NOTICE

Session 2023-24 (Even)

All the students of **Electronics & Telecommunication Engineering Department** are here by informed that **Pre University Test** is commencing from **15/04/2024**. Kindly follow the time table given below.

DATE	TIME	IV SEMESTER (RTMNU)	VI SEMESTER (RTMNU)	VIII SEMESTER (RTMNU)
15/04/24	10:30 AM to 01:30 PM	Microcontrollers & Applications	Computer Communication Network	-
18/04/24	10:30 AM to 01:30 PM	Analog & Digital Communications	Internet of Things	-
20/04/24	10:30 AM to 01:30 PM	Analog System Design	Wireless Sensor Network	PE-VI - MEMS
21/04/24	10:30 AM to 01:30 PM	Data structure & Algorithm	Database Management Systems	PE- VII - Satellite Communication
22/04/24	10:30 AM to 01:30 PM	HSC: Numerical Mathematics and Probability Using MATLAB	Mobile Computing	-
23/04/24	10:30 AM to 01:30 PM	Programming for problem solving	Effective Technical Communication	-
24/04/24	10:30 AM to 01:30 PM	Universal Human Values	-	-


Examination In charge


Head of Department
HEAD

Dept. of Electronics & Telecommunication Engg.
Swaminarayan Siddhanta Institute
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**PRE UNIVERSITY TEST**

Session 2023-2024

Subject: Data structure and Algorithm (BEETC-405T)

Semester: 4th	Max Marks: 70	Time – 3 Hour (10.30 am - 01:30 pm)	Date : 21/04/24
---------------------------------	----------------------	--	------------------------

- Instructions:**
- All questions carry marks as indicated.
 - Solve Question 1 OR Questions No. 2.
 - Solve Question 3 OR Questions No. 4.
 - Solve Question 5 OR Questions No. 6.
 - Solve Question 7 OR Questions No. 8.
 - Solve Question 9 OR Questions No. 10.
 - Illustrate your answers wherever necessary with the help of neat sketches.

Sr. No.	Questions	Marks	COs mapped
Q1A	What is algorithm? Explain various characteristics of an algorithm.	6	CO1
Q1B	What is a data structure? Differentiate primitive and non-primitive data structure.	8	CO1
OR			
Q2A	Explain linear search with suitable example.	6	CO1
Q2B	Write short note on (Any Two) i. Time space trade off ii. Bubble sort iii. Insertion sort.	8	CO1
Q3A	What is mean by circular queue and priority queue. Write a function to insert and delete an element from a circular queue with example.	14	CO2
OR			
Q4A	Differentiate between row major and column major array index notation.	7	CO2
Q4B	Write a function for PoP and Push operation of in stack. Also explain the application of a stack.	7	CO4
Q5A	What are different functions for dynamic memory allocation? Explain with example.	7	CO4
Q5B	What is doubly linked list? Write an algorithm to reverse a number by using singular linked list.	7	CO4
OR			
Q6A	Explain Binary search Tree (BTS) its insertion & deletion operation with example.	8	CO4
Q6B	Explain polynomial representation of Linked list in detail.	6	CO4

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Assignment -1

Session 2023-2024

**Subject: MICROCONTROLLER AND APPLICATIONS
(BEETC-401T/BEEN-401T/BEEC-401T)**

Semester: 4th Sem

Sr. No.	Question	COs mapped
Q1	Explain addressing modes of 8051 with one example each.	CO1
Q2	Write a program using instructions of 8051 to transfer a block of 10 bytes of data present in external RAM from location 7000H to location 30H of internal RAM	CO1
Q3	Explain following special function register (SPRs) of 8051. 1) TMOD 2) IE 3) PSW 4) PCON	CO1
Q4	Interfacing of keyboard 4x4 with PIC microcontroller with neat diagram and write down program.	CO2
Q5	How many IO ports are present in 8051 explain all of them?	CO2
Q6	With the help of circuit diagram explain the interfacing of keypad?	CO2


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Assignment -II

Session 2023-2024

**Subject: MICROCONTROLLER AND APPLICATIONS
(BEETC-401T/BEEN-401T/BEEC-401T)**

Semester: 4th Sem

Sr. No.	Question	COs mapped
Q1	Explain the Integrated Development Environment (IDE).	CO3
Q2	Write a program to clear 16 memory location starting at data memory address \$60. Use the following a) INC Rn b) Auto increment.	CO3
Q3	Assume that the data memory location 0x315 has well do FD H. Write a program to convert it to decimal. Save the digits in location 0x322, 0x323, 0x3 to 4 and where the least significant digit is in location 0x322.	CO3
Q4	Explain the ARM and PIC processors of MSP 430 Microcontroller?	CO4
Q5	Draw and explain the architecture of PIC controller?	CO4
Q6	Detail explanation of direct and indirect addressing mode?	CO4


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Assignment -III

Session 2023-2024

**Subject: MICROCONTROLLER AND APPLICATIONS
(BEETC-401T/BEEN-401T/BEEC-401T)**

Semester: 4th Sem

Sr. No.	Question	COs mapped
Q1	Explain the USART, SPI and I2C protocols?	CO4
Q2	Explain low power feature of MSP 430?	CO4
Q3	Explain the pin diagram of arduino?	CO5
Q4	Explain the architecture diagram of arduino?	CO5
Q5	Explain the concept of digital and analog ports?	CO5
Q6	Detail explanation on LCD interfacing with arduino?	CO5


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Sarvasiddhanta Education Society's
SWAMINARAYAN SIDDHANTA INSTITUTE OF TECHNOLOGY
 Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University
 Nagpur-Katol Highway Road, Khapri (Kothe),
 Tal: Kalmeshwar, Nagpur, Maharashtra-441501
Department of Electronics and Telecommunication Engineering



Assignment Submission
B.Tech 7th Semester Session 2023-24
Subject: DS & CC

SR. No.	Name of the students	Assignment-1	Assignment-2	Assignment-3
1	KUNADAN KINGKAR TARFDAR	[Signature]	[Signature]	[Signature]
2	CHANCHAL KOMAL NAVGHARE	[Signature]	[Signature]	[Signature]
3	ACHAL NILKANTHRAN HAJARE	[Signature]	[Signature]	[Signature]
4	YASH SANJAY DHABEKAR	[Signature]	[Signature]	[Signature]
5	DIPAK C. BAWANKULE	[Signature]	[Signature]	[Signature]
6	VAISHNAVI SUBHAKAR SAKINALA	[Signature]	[Signature]	[Signature]
7	SHANTANU HARIBHAU TALMALE	[Signature]	[Signature]	[Signature]
8	MANGESH P. SHRIRAO	[Signature]	[Signature]	[Signature]
9	ASHWAJIT NARAGE	[Signature]	[Signature]	[Signature]
10	PAYAL MESHAM	[Signature]	[Signature]	[Signature]

Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist, Nagpur-441501

H.O. [Signature]
 Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.

Sarvasiddhanta Education Society's

SWAMINARAYAN SIDDHANTA INSTITUTE OF TECHNOLOGY

Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University

Nagpur-Katol Highway Road, Khapri (Kothic),

Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Electronics and Telecommunication Engineering



Assignment Submission

B.Tech 7th Semester Session 2023-24

Subject: WMC

SIR. No.	Name of the students	Assignment-1	Assignment-2	Assignment-3
1	KUNADAN KINGKAR TARFDAR			
2	CHANCHAL KOMAL NAVGHARE			
3	ACHAL NILKANTHRAN HAJARE			
4	VASH SANJAY DHABEKAR			
5	DIPAK C. BAWANKULE			
6	VAISHNAVI SUDHAKAR SAKINALA			
7	SHANTANU HARBHAI TALMALE			
8	MANGESH P. SHRIRAO			
9	ASHWAJIT NARAGE			
10	PAYAL MESHAM			

Principal

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of Technology, Kalmeshwar,
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HOD

Dept. of Electronics & Telecommunication Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.



Subject: Internet of Things (IOT)

Semester: 6th

Unit I

1. Explain about IOT functional Blocks.
2. Draw and explain about logical design of IOT.
3. What are different components are required for IOT device.
4. Define Internet of things. Write application of IOT.
5. Explain physical design of IOT.
6. Draw and explain about IOT functional blocks.
7. Write advantages and disadvantage of IOT.
8. What are the constraints affecting designs of IOT. Explain in detail.
9. Draw and explain logical and physical design of IOT.
10. Define IOT. Explain Characteristics and component of IOT

Unit II

1. Explain developments and operational view of IOT.
2. Draw and explain IOT reference model.
3. Explain deployment and operational view of IOT.
4. Explain four cloud deployment models?
5. Explain reference architecture of IOT using figure.
6. Explain Open Geospatial Consortium Architecture with a diagram.
7. What is IoT Domain Model?
8. Explain Functional View, Information View, Deployment and Operational View, Other Relevant architectural views of IOT reference architecture.

Unit III

1. Write difference between M2M Communication and IOT.
2. Write Short notes on 1) M2M Value Chains 2) IOT Value Chains.
3. Draw and Explain M2M to IOT architecture.
4. Explain the potential and benefits of an IOT oriented approach over M2M.
5. What is Global Value Chain? Explain it with a diagram.
6. Explain Main design principles and needed capabilities of IOT
7. Explain data storage, data processing, data analysis steps in M2M data management.


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Unit IV

1. Write short notes on MAC Protocols.
2. Write short notes on.
 - 1) Data aggregation & dissemination
 - 2) Sensor deployments & node discovery.
3. Explain Survey routing protocol.
4. Explain data aggregation and dissemination.
5. Give wireless medium access issues.
6. What are different wired and wireless connectivity we can use in IOT? Explain with example.
7. Explain services management and security.
8. Explain how gateways are used for data management, local applications and device management in IoT.

Unit V

1. Explain in detail agricultural application of IOT.
2. Write a short notes on Healthcare in IOT also write application for it.
3. Write feature and types of Raspberry Pi board along with its setup.
4. What are IoT devices? Explain Raspberry Pi model in details
5. Explain the meaning of Arduino.
6. Explain sketch in Arduino and how will you reduce the size of sketch.
7. State different between Arduino and Raspberry Pi.
8. How to run Raspberry pi in headless mode?
9. What impact will IoT have on the healthcare sector?
10. Discuss smart health using IoT


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SWAMINARAYAN SIDDHANTA INSTITUTE OF TECHNOLOGY

Bachelor of Technology

Nagpur-Katol Highway Road, Khapri (Kotha), Tal. Kalmeshwar, Nagpur-441 501

E-mail: ssitnedu@gmail.com

Website: www.ssitedu.com

CERTIFICATE

This is to certify that this register belongs to Ms. Rubey Shastrikar

For the subject MEMS for semester/section/branch 3rd Sem

For the academic session 2023-2024 with following

Pages with following details for the students

Attendance for practical and theory

Assignment Marks


Sessional Marks


PUT Exam Marks

Cumulative attendance for theory and practical

Syllabus coverage


Signature of Subject Teacher


Signature of H.O.D.
Dept. of Electronics & Telecommunication Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.


Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501



SWAMINARAYAN SIDDHANTA INSTITUTE OF TECHNOLOGY

Bachelor of Technology

Nagpur-Katol Highway Road, Khapri (Kothie), Tah. Kalmeshwar, Nagpur-441501

E-mail: ssitnedu@gmail.com

Website: www.ssitedu.com

Monitoring factors for subject for teacher

Subject: PEC-VI-MEMS University Subject code: BEETC801PE

Total periods per week per University: 04

Theory: 05 Hrs. PR/Tutorial: - Hrs. Total: 05 Hrs.

Total periods in the academic session as per University teaching scheme:

Theory: 35 Hrs. PR/Tutorial: - Hrs. Total: 35 Hrs.

Theory paper duration: 03 Hrs. Marks: 70

Practical/oral/Term work (Int/Ext): College Assessment Marks: 30

Reference Books:

1. Micro and Smart Systems by Ananthaswamy
2. RF MEMS and Their Applications
3. Microsensors, MEMS and Smart Devices
4. NIST Technology, Sze S.M., Mc Graw Hill, (2/F)
5. _____

TIME TABLE

Day	1	2	3	4	5	6	7
Time	8-10 am 10-12 pm	10-12 am 11-12 pm	11-12 am 12-12 pm	12-12 pm 1-12 pm	01-12 pm 2-12 pm	2-12 pm 3-12 pm	3-12 pm 4-12 pm
Mon	MEMS						
Tue	MEMS			Lunch			
Wed		MEMS		Break			
Thu		MEMS					
Fri		MEMS					
Sat							

Teaching and Examination Scheme:-

Teaching Scheme			Examination Scheme					TOTAL
TH	TU	FR	PAPER HRS	TH	PR	OR	TW	
04	-	-	03	70	-	-	30	100

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SWAMINARAYAN SIDDHANTA INSTITUTE OF TECHNOLOGY
Bachelor of Technology
Nagpur-Katol Highway Road, Khapri (Kotha), Tah. Kalmeshwar,

Analysis of Sessional & PUT

Roll No.	Name of the Students	Sessional Marks		PUT	Sign of Students
		I	II		
1	Kundan Torbolae	20	19	40	
2	Chanchal Naugthane	20	20	41	
3	Achal Hajare	04	04	18	
4	Yash Dhabekar	20	20	41	
5	Dipak Sawankute	20	20	62	
6	Vashnavi Sekinata	18	18	47	
7	Shantamu Talmale	16	14	28	
8	Mangath Shetkar	10	14	50	
9	Ashwajit Naruge	17	20	58	
10	Pooja Meshram	20	20	64	
11	Chan				
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SWAMINARAYAN SIDDHANTA INSTITUTE OF TECHNOLOGY

Bachelor of Technology

Nagpur-Katol Highway Road, Khajuri (Kothre), Tah. Kalmeshwar, Nagpur-441501.

**" List of Practical"
(As per University Syllabus)**

Sr. No.	Name of Practical
1	To study handoff strategies.
2	To design a Model and Simulation of multipath fading channel.
3	To model and simulate TDMA, FDMA and CDMA for wireless communication.
4	To study global system for mobile communication (GSM) data service and capability.
5	To write a MATLAB program to measure BER for 4G wireless standard.
6	To study and analyze the behavior of 5G network using cellular phone on the 5G mobile trainer kit.
7	To study mobile radio propagation path loss free space propagation model.
8	design, analyze and test wireless standards and evaluate the performance measurements such as BER, PER, BLER, throughput, capacity, ACLR, EVM for 4G and 5G using MATLAB.
9	
10	


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Dist. Nagpur-441501**


HEAD

**Dept. of Electronics & Telecommunication E-100
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.**



SWAMINARAYAN SIDDHANTA INSTITUTE OF TECHNOLOGY

Bachelor of Technology

Nagpur-Katal Highway Road, Khapri (Kathe), Tal. Kalmeshwar, Nagpur-441501.

Theory Attendance Details Month- February

20-24

P: 16															PE: 6			
Sl. No.	2/2	5/2	6/2	7/2	12/2	13/2	14/2	16/2	20/2	21/2	22/2	23/2	26/2	27/2	28/2	29/2	PIA	%
1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100	100
2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100	100
3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100	100
4	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100	100
5	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100	100
6	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100	100
7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100	100
8	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100	100
9	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100	100
10	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	100	100
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H	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat	Retreat		
Topic	Introduction to MEMS	Intro to MEMS	MEMS fabrication	MEMS packaging	MEMS applications	MEMS characterization	MEMS reliability	MEMS manufacturing	MEMS packaging	MEMS applications	MEMS characterization	MEMS reliability	MEMS manufacturing	MEMS packaging	MEMS applications	MEMS characterization	MEMS reliability	MEMS manufacturing

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HEAR...
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Swaminarayan Siddhanta Institute
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SWAMINARAYAN SIDDHANTA INSTITUTE OF TECHNOLOGY
Bachelor of Technology

Nagpur-Katol Highway Road, Khapri (Kothu), Tal. Kalmeshwar, Nagpur-441501

Practical Attendance Details Month- October 20 23

PP :- 02			PE :- 02										P/A	%	
Roll No.	1/10	2/10													
1	P	P												2/0	100
2	P	P												2/0	100
3	P	P												2/0	100
4	P	P												2/0	100
5	P	P												2/0	100
6	P	P												2/0	100
7	P	P												2/0	100
8	P	P												2/0	100
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Topic	N8 Design, analysis N9 PER, P.R., Em N10 B.L.C.R., A.C.R.K.														


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HEAD
 Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Inst
 of Technology, Kalmeshwar, N.

Proforma for Syllabus Coverage & Period Engaged

Name of Teacher:- Ms. Richa Rajiv Shukla

Name of Subject:- MEMS

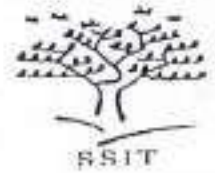
Semester & Branch:- 8th / ETC.

Sr. No.	Month	Topics Covered	%	Cumulative % of Syllabus Covered	Period Proposed		Period Engaged		Reason for Deficiency	Preventive Measures	Cumulative Period Engaged	
					Th.	Pr.	Th.	Pr.			Th.	Pr.
1.	Dec	Unit 1 Half	15%	15%	07	-	07	-			07	-
2.	Jan	Unit 1 Half + Unit 2 Half	30%	30%	15	-	15	-			15	-
3.	Feb	Unit 2 Half + Unit 3	60%	60%	16	-	16	-			16	-
4.	March	Unit 4	80%	80%	12	-	12	-			12	-
5.	April	Unit 4 20% + Unit 5	100%	100%	10	-	10	-			10	-

Rishu
Subject Teacher

Rishu
Principal
Swaminarayan Siddhanta Institute
of Technology, Kaimeshwar,
Dist. Nagpur-441501

Rishu
HEAD
Dept. of Electronics & Telecommunication
Swaminarayan Siddhanta Inst.
of Technology, Kaimeshwar, Nagpur



Date:-15/12/2023

DEPARTMENTAL ACADEMIC CALENDAR

TERM: EVEN (IV, VI, and VIII) SESSION: 2023-2024

Sr. No.	Activity	Tentative Date
1.	Principal Meeting Even Term Commencement	Third week of December
2.	Time Table Display	Third week of December
3.	Commencement of Even Term for VI & VIII Sem	20/12/2023
4.	Value Added Course	02/01/2024 to 06/01/2024
5.	Commencement of Even Term for IV Sem	08/01/2024
6.	Forum Activity(MESA)/Guest Lecture	Second week of January
7.	Industry Visit/Tour	Third week of January
8.	Final Year Project Presentation	Last week of January
9.	Submission of Assignment No. 1	27/01/2024
10.	Sessional Exam No. 1	31/01/2024 to 02/02/2024
11.	Remedial classes start from	05/02/2024 onwards
12.	Annual Culture Events	29/01/2024 to 03/02/2024
13.	Parent Teacher Meet (PTM)	Third Week of February
14.	Forum Activity(MESA)/Guest Lecture	Last Week of February
15.	Submission of Assignment no. 2	29/02/2024
16.	Sessional Exam No. 2	04/03/2024 to 06/03/2024
17.	Forum Activity(MESA)/Guest Lecture	Third Week of March
18.	Submission of Assignment No. 3	05/04/2024
19.	End of Teaching Session	08/04/2024
20.	Feedback from students	Second Week of April
21.	Final Submission of Term Work/ Project Submission	Second Week of April
22.	Pre University Test (PUT)	15/04/2024 to 22/04/2024
23.	Tentative RTMNU Practical Exam	Last week of April
24.	Tentative RTMNU Theory Exam	Last week of April

Copy to

1. Principal Office
2. The Dean (Academic)
3. IQAC Coordinator
4. Notice board
5. Circulate among all faculties

[Signature]
 HEAD

Dept. of Mechanical Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur

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 Principal
 Swaminarayan Siddhanta Institute
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 Dist. Nagpur-441501



**LOAD DISTRIBUTION (EVEN SEM)
 AY 2023-24**

Date:-18/12/2023

Sr. No.	Name of Faculty	Subject	Semester	Theory + Tutorial Load / Week	Practical Load / Week	Total Load / Week
1	Prof. Ankush Hatwar	Professional Ethics	IV SEM	3	NA	14
		Automation in Production	VI SEM	3	4	
		Project Phase-II	VIII SEM	NA	4	
2	Prof. Ravindra Gandhe	Hydraulic Machines	IV SEM	3	4	17
		Energy conversion-II	VI SEM	3	4	
		Industrial Engineering	VIII SEM	3	NA	
3	Prof. Yashraj Chopkar (W/S)	Machining Process	IV SEM	3	4	14
		Elective-II (AMP)	VI SEM	3	NA	
		Project Phase-II	VIII SEM	NA	4	
4	Prof. Nikhil Kale	Dynamics of Machines	VI SEM	3	4	17
		Elective-IV (CIM)	VIII SEM	3	4	
		OPEN ELECTIVE-I (Vs Civil)	VI SEM	3	NA	
5	Prof. Sumit Kumar	Engineering Thermodynamics	IV SEM	4	NA	15
		Skill Development (Training on Matlab)	IV SEM	NA	4	
		Elective-VI (ECM)	VIII SEM	3	NA	
		Project Phase-II	VIII SEM	NA	4	
6	Prof. Rahul Gorpude	Mechanics of Material	IV SEM	3	4	15
		Elective-I (RPG) RGS	VI SEM	4	NA	
		Elective-V (DMHS)	VIII SEM	4	NA	
Teaching Load						91
Other departmental load						
1	Prof. XYZ	Computer Programming	IV SEM	2	4	6
2	Prof. XYZ	Environment Science	VI SEM	2	NA	2
Total Teaching Load						99

Copy to

1. The Principal
2. The Dean (Academic)
3. IQAC Coordinator
4. Circulate among all faculties


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 Swaminarayan Siddhanta Institute
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HEAD
 Dept. of Mechanical Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur

Sarasiddhanta Education Soci(FM)'s

Swaminarayan Siddhanta Institute of Technology

Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University

Nagpur-Katol Highway Road, Khapri (Kofhe),

Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Mechanical Engineering

SESSION 2023-24 (ODD)

MASTER TIME TABLE

W.E.F.Date:-10/07/2023

DAY	SEM	W.E.F.Date:-10/07/2023					
		1 9.45-10.45	2 10.45-11.45	3 11.45-12.45	4 12.45-01.15	5 01.15-02.15	6 02.15-03.15
MONDAY	IIIRD	FM	KOM	Maths-III	RECESS	MD&SM(T)	(SDY(SPORTNSS) PRACTICAL
	Vth	EC-I	IEM	HT	-	MMM	(HT) PRACTICAL
	VIIth	DOTS	EC-III	OE-II	-	CAD	(CAD)PRACTICAL
TUESDAY	IIIRD	KOM	MF	MSE	-	FM	(MP) PRACTICAL
	Vth	IEM	MMM	DME	-	HT	MMM PRACTICAL
	VIIth	DOTS	EC-II	CAD	-	OE-II	(EE) PRACTICAL
WEDNESDAY	IIIRD	MP	FM	KOM	-	Maths-III	MD&SM PRACTICAL
	Vth	DME	MMM	HT	-	Library	HT PRACTICAL
	VIIth	DOTS	DOTS	CAD	-	OE-II	(EE) PRACTICAL
THURSDAY	IIIRD	MP	FM(T)	MSE	-	Maths-III	(SPORTNSS) PRACTICAL
	Vth	HT	IEM	DME	-	EC-I	P. ART
	VIIth	DOTS(TR)	OE-II	CAD	-	EC-III	NPTTEL
FRIDAY	IIIRD	MSE	KOM(T)	MD&SM(T)	-	MP	NPTTEL
	Vth	IEM	EC-I	DME(T)	-	Library	MMM PRACTICAL
	VIIth	EC-III	Library	Library	-	Library	CAD(P)
SATURDAY	IIIRD	YOGA	MSE	Maths-III	-	Library	SPORTS
	Vth	DME	EC-I	MMM	-	Library	TG
	VIIth	Project & Seminar	Project & Seminar	Project & Seminar	-	Library	TG
IIIrd Semester		Vth Semester					
M-III	Mrs. Ashwini Borkute	HT	Mr. Ravindra Gandhe	Mr. Ravindra Gandhe	VIth Semester		
MP	Mr. Yashraj Chopkar	EC-I	Mr. Yashraj Chopkar	Mr. Yashraj Chopkar	Mr. Nikhil Kale		
FM	Mr. Ravindra Gandhe	DME	Mr. Ankush Hatwar	Mr. Ankush Hatwar	Mr. Ravindra Gandhe		
KOM	Mr. Ankush Hatwar	IE&M	Mr. Nikhil Kale	Mr. Nikhil Kale	Mr. Yashraj Chopkar		
MD&SM	Mr. Nikhil Kale	MMM	Mr. Sumit Kumar	Mr. Sumit Kumar	Mr. Saurabh Varma		
MSE	Mr. Sumit Kumar	Project & Seminar	Project & Seminar	Project & Seminar	Mr. Ankush Hatwar		

Principal

Swaminarayan Siddhanta Institute
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Dist. Nagpur-441501

Time Table Incharge

HEAD



W.E.F. Date:-20/12/2023

FINAL YEAR CLASS TIME TABLE

DAY	SEM	1 9.45-10.45	2 10.45-11.45	3 11.45-12.45	4 12.45-01.15	5 02.15-03.15	6 03.15-04.15
MONDAY	VIIIth	ELE-IV(CIM)	ELE-VI(ECM)	IE	ELE-V(DMHS)	CIM (PR)	
TUESDAY	VIIIth	ELE-IV(CIM)	ELE-VI(ECM)	IE	ELE-V(DMHS)	CIM (PR)	
WEDNESDAY	VIIIth	ELE-IV(CIM)	ELE-VI(ECM)	IE	ELE-V(DMHS)	TG	
THURSDAY	VIIIth	ELE-V(DMHS)	ELE-IV(CIM)	Library	SPORTS	NPTEL	
FRIDAY	VIIIth	ELE-VI(ECM)	PROJECT PHASE II	Library	Project & Seminar		SPORTS
SATURDAY	VIIIth	IE	TG		Project & Seminar		

VIIIth Semester	
IE	Mr. Ravindra Gandhi
ELE-IV (CIM)	Mr. Nikhil Kale
ELE-VI (ECM)	Mr. Sumit Kumar
ELE-V (DMHS)	Mr. Rahul Gurpode
Project Phase-II	Mr. Ankaush Hatwar

Time Table Incharge

- Copy to- 1) Principal Office
 2) Dean Academics
 3) IQAC Coordinator
 4) Concerned Faculties
 5) Notice Board of ME Department

Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501

HOD
 HEAD
 Dept. of Mechanical Engg.,
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur



Subject: Mechanical Measurement and Metrology
Semester: 5th (Third Year)
SESSION: 2023-24

CONTENTS

1. Institute Vision & Mission
2. Departmental Vision & Mission
3. University Academic Calendar
4. Institutional Academic Calendar
5. Departmental Academic Calendar
6. Departmental Timetable
7. Individual Timetable
8. Student Roll List
9. PO, PEO, PSO & CO
10. Scheme and Syllabus with list of Text & Reference Book
11. Teaching Plan
12. Assignments
13. Assignment Marks
14. Sessional Examination-I
15. Result of Sessional Examination-I
16. List of slow learner and fast learner
17. Sessional Examination-II
18. Result of Sessional Examination-II
19. PUT Question Papers
20. Result of PUT
21. University Question Papers
22. Question Bank

Sumit
Subject Teacher

[Signature]
Principal
Swaminarayan Siddhanta Institute
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Dist. Nagpur-441501

[Signature]
HOD
HEAD
Dept. of Mechanical Engg.
Swaminarayan Siddhanta Institute





TEACHING PLAN (THEORY)
SUBJECT: Dynamics of Machines
B.Tech 6th Sem CBCS
A.Y 2023-24


UNIT	TOPIC TO BE COVERED	LECTURES	DATE
UNIT - I	Gyroscopic Effect: Introduction, precession motion, Effect of gyroscopic couple on shaft bearings.	1,2	21/12/2023 to 22/12/2023
	Effect of gyroscopic couple on shaft airplane.	3,4	28/12/2023 to 02/01/2024
	Effect of gyroscopic couple naval ship, vehicle stability	5,6	04/01/2024 to 05/01/2024
	Numericals	7,8	12/01/2024 to 11/01/2024
	Introduction to electronic gyroscopes and its applications in the modern automobiles.	9	12/01/2024 to 12/01/2024
UNIT - II	Dynamic force analysis: Concepts in machine element dynamics. D'Alembert principle. Application of these approaches for equilibrium of mechanisms	10,11	15/01/2024 to 18/01/2024
	Static and Dynamic force analysis of planar linkages such as four bar chain.	12,13	19/01/2024 to 22/01/2024
	Reciprocating mechanism by graphical method. Numericals	14	25/01/2024 to 25/01/2024
	Reciprocating mechanism Analytical method Numericals	15,16	29/01/2024 to 01/02/2024
	Cam dynamics and jump-off phenomenon. Numericals	17,18	02/02/2024 to 06/02/2024
UNIT - III	Balancing of rotating masses in one and several planes[Graphical and analytical treatment]	19,20	02/02/2024 to 06/02/2024
	Static and dynamicbalancing machines, [Graphical and analytical treatment] Numericals	21,22	08/02/2024 to 09/02/2024



	Numericals	23	13/02/2024 to 13/02/2024
UNIT - III	Balancing of reciprocating masses in single and multi-cylinder engines, inline, radial and V type.	24,25	15/02/2024 to 16/02/2024
	Numericals, Primary and secondary balancing analysis	26,27	20/02/2024 to 22/02/2024
	Concept of direct and reverse crank. [Graphical and analytical treatment] Numericals.	28,29	23/02/2024 to 26/02/2024
UNIT - IV	Brakes and Dynamometer – Types of brakes, block brake, band brake, internal expanding brake and effect of braking on vehicle.	30,31,32	29/02/2024 to 07/03/2024
	Types of dynamometer, absorption and transmission dynamometer, chassis dynamometer, eddy current dynamometer. [Analytical treatment for Brakes].	33,34	12/03/2024 to 14/03/2024
	Numericals	35	15/03/2024 to 15/03/2024
	Flywheel - Turning moment vs crank angle diagram for single- cylinder and Multiple-cylinder engines, flywheel application in punching machines. [Analytical treatment]	36,37	19/03/2024 to 21/03/2024
	Numericals	38	22/03/2024 to 22/03/2024
UNIT - V	Vibration Analysis: Types of vibration, degree of freedom, method of vibration analysis of un-damped and damped free & forced vibration system.	39,40	26/03/2024 to 28/03/2024
	Types of damping, Logarithmic decrement, magnification factor, vibration isolation and transmissibility. Whirling of shaft and critical speed of rotors.	41,42	02/04/2024 to 04/04/2024
	Torsional oscillation Of two-disc and three disc rotors, torsional vibration of a geared system.	43	05/04/2024 to 05/04/2024
	Numericals	43,44	07/04/2024 to 08/04/2024


 Subject In-charge
 Prof. Nikhil A. Kale



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 HEAD
 Dept. of Mechanical Engg.
 Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur




TEACHING PLAN (PRACTICAL)
SUBJECT: Dynamics of Machines
B.Tech 6th Sem CBCS
A.Y 2023-24

Practical No.	Name of Practical's	No. of Practical Required	Date
Practical No. 1	Dynamic balancing of rotating masses (study of wheel balancing machine along with performance by visiting any automobile workshop).	1,2	23/12/2023 to 06/01/2024
Practical No. 2	Determination of jump speed of a cam follower mechanism	2,3	06/01/2024 to 09/01/2024
Practical No. 3	Critical speed of shafts.	3,4	09/01/2024 to 13/01/2024
Practical No. 4	Performance characteristics of Gyroscope.	4,5	13/01/2024 to 16/01/2024
Practical No. 5	Determination of natural frequency of Free longitudinal vibration of single DOF system	5,6	16/01/2024 to 20/01/2024
Practical No. 6	Torsional vibration of single and two rotor system.	6,7	20/01/2024 to 23/01/2024
Practical No. 7	Dynamic force analysis of four bar mechanisms OR Dynamic force analysis of slider crank mechanism.	7,8	23/01/2024 to 27/01/2024
Practical No. 8	Performance analysis of quick return motion mechanism in a machine tool in college workshop	8,9	30/02/2024 to 10/02/2024
Practical No. 9	Performance on flywheel of an engine in IC engine laboratory.	9,10	13/02/2024 to 23/02/2024
Practical No. 10	Performance of dynamometer in IC engine lab	10,11	02/03/2024 to 15/03/2024
Practical No. 11	Determination of braking efficiency of two wheeled vehicle	11,12	23/03/2024 to 02/04/2024


 Subject In-charge
 Prof. Nikhil A. Kale


Principal
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501


 HOD
 HEAD
 Dept. of Mechanical Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur



Ref. No.: SSIT/ME/2023-24/GL/16

Date: 12/03/2024

INVITATION LETTER

To,
Mr. Bharat Parate
Junior Engineer,
MAHAGENCO
Koradi, Nagpur.

Subject: Invitation for Guest Lecture on "Renewable energy concepts and application in Industry and domestic sector."

Dear Sir,

The Department of Mechanical Engineering in collaboration with IQAC & IIC of Swaminarayan Siddhanta Institute of Technology, Nagpur is planning to conduct a Guest Lecture on "Renewable energy concepts and application in Industry and domestic sector" for all students. We are pleased to invite you for the same on 19th March 2024.

It is an honour to be able to invite you as an Expert as your expertise and experience in this field will be highly essential to our students.

We will be pleased if you confirm your availability on the above-mentioned date.

Looking forward to your positive reply.

With warm regards,

Received and accepted

Bharat Pa
12/03/24

Principal

Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501

Principal
12/03/24

Dept. of Mechanical Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur

Swaminarayan Siddhanta Institute of Technology, Nagpur

2nd Floor, Kalpataru, 77, Anurag Central Bank, Chanda, Akhankar Nagar, Nagpur (India) Tel: +91-712-2250086
College: Nagur-Karol Highway Road, Khapri (Basti), Tal. Kalmeshwar, Nagpur-441501. Tel: +91-7118-661109,
661103, Email-id: info@ssitedu.com, Website: www.sitedu.com



Ref. No.: SSIT/ME/2023-24/GL/17

Date: 13/03/2024

NOTICE

All the students are hereby informed that, our department in collaboration with IQAC & IIC is going to organize Guest Lecture on the topic "Renewable energy concepts and application in Industry and domestic sector" on 19/03/2024 at 02.30 pm in smart classroom. All students are instructed to attend the same.

The resource person for the guest lecture is **Mr. Bharat Parate, Junior Engineer MAHAGENCO Koradi, Nagpur.**


Activity In charge: Mr.Ravindra Gandhe (Mob No.9763143057)

Student Coordinator: Badal Rathod (Mob No.9767079263)


Activity In charge

Copy to

1. The Principal
2. IQAC Coordinator
3. The Dean (Academic)
4. IIC file
5. Notice board
6. Circulation among all classes
7. Circulate among all faculties


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of Technology, Kalmeshwar, Nagpur


Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501



Ref No.: SSIT/ME/2023-24/GL/ 18

Date: 19/03/2024

Appreciation Letter

To,
Mr. Bharat Parate
Junior Engineer,
MAHAGENCO,
Koradi, Nagpur.

Dear Sir,

We would like to express our sincere gratitude for delivering such a remarkable Guest Lecture on the topic "Renewable energy concepts and application in Industry and domestic sector" organized by Department of Mechanical Engineering in collaboration with IQAC & IIC on date 19th March 2024 for all Mechanical Engineering students.

Your knowledge on the topic is too vast. Almost all the students have appreciated the lecture content and rated the session as excellent. We are sure that the content given by you will definitely be helpful to our students. Your willingness to share your expertise is commendable and greatly appreciated.

Once again, thank you for sharing your knowledge and wish to have association with you in future also.

Received
Bharat
19/03/24


HOD MECH
HEAD

Dept. of Mechanical Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

Swaminarayan Siddhanta Institute of Technology, Nagpur

2nd Floor, Kalpataru, 77 Above Central Bank of India, Abhyankar Nagar, Nagpur (India) Tel: +91-712-2250096
College Nagar-Karol Highway Road, Kalpataru, 77 Above Kalmeshwar, Nagpur-441501 Tel: +91-7118-661100,
066105, Email: admission@ssit.ac.in Website: www.ssidet.ac.in


Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501



Date: 19/03/2024

Guest Lecture on
"Renewable energy concepts and application in Industry and domestic sector"

Attendance Sheet

Sr. No.	Name of student	Year	Sign
1	Mukul Ramesh Kuril	2nd Yr	M Kuril
2	Sangan Shyam Gurao	2nd Yr	S Gurao
3	Hemant Maroti Meshram	2nd Yr	H Meshram
4	Sahil Hemraj Awasare	2nd Yr	S Awasare
5	Nitin Dyaneshwar Madake	2nd Yr	N Madake
6	Sarfaraj Nasimkhan Pathan	2nd Yr	S Pathan
7	Shubham Ashokrao Kathoke	2nd Yr	S Kathoke
8	Nikita Gurupad Adhikari	4th Yr	N Adhikari
9	Badal Ratansingh Rathod	4th Yr	B Rathod
10	Harshad Diliprao Dhole	4th Yr	H Dhole
11	Maishkumar Chandrakant Rewatkar	4th Yr	M Rewatkar
12	Pritish Dattuji Fandi	4th Yr	P Fandi
13	Shubham Suresh Wargantiwar	4th Yr	S Wargantiwar
14	Shubam Sudhakar Maske	4th Yr	S Maske
15	Subrato Subhash Karmakar	4th Yr	S Karmakar
16	Vikramshingh Hariharsingh Sengar	4th Yr	V Sengar
17	Abhay Kumar Chirkute	3rd Yr	A Chirkute
18	Imran ul Haque	3rd Yr	I Haque

[Signature]
 HOD 19/03/2024
 HEAD

Dept. of Mechanical Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur

[Signature]
Principal
 Swaminarayan Siddhanta Institute
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Sarvasiddhanta Education Society's

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Nagpur-Katol Highway Road, Khapri (Kothe),

Tal: Kalmeshwar, Nagpur, Maharastra-441501

Department of Mechanical Engineering

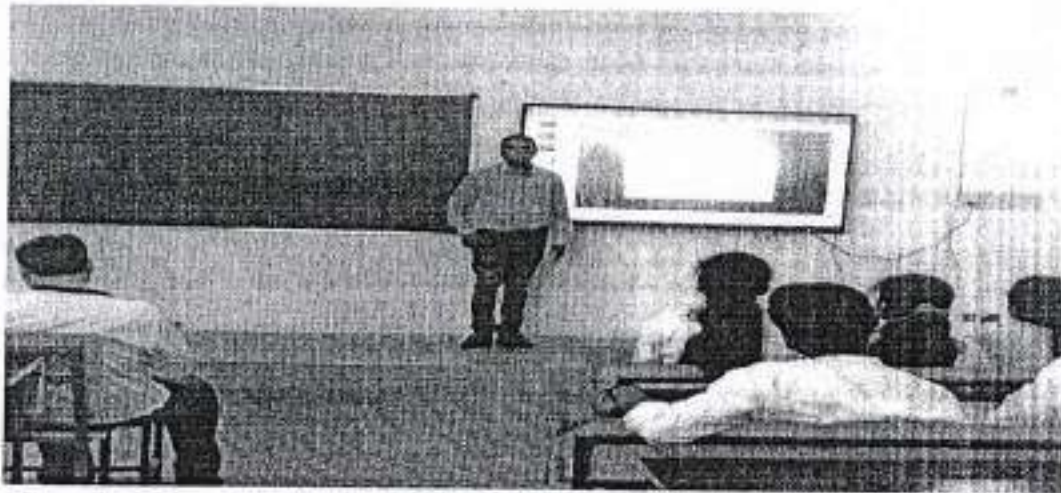


ONE PAGE REPORT	
Title	Guest Lecture
Name of Activity	Guest Lecture on "Renewable energy concepts and application in Industry and domestic sector"
Date	19/03/2024 at 02:30 pm onwards
Venue	Interactive Class Room of Mechanical Engineering Department, SSIT Kalmeshwar, Nagpur.
Organized by	Department of Mechanical Engineering in collaboration with IQAC, SSIT, Nagpur
Name of Expert	Mr. Bharat Parate Junior Engineer, MAHAGENCO Koradi , Nagpur.
Participated by	All the students of Mechanical Engineering Department, SSIT
Activity In-charge	Mr. Ravindra Gandhe
Content	<p>The expert lecture focused on :</p> <ol style="list-style-type: none">1. Solar power, wind power, hydroelectricity, geothermal energy, and biomass are widely agreed the main types of renewable energy.2. What are the industrial applications of renewable energy?.3. 7 Types of Renewable Energy i.e. solar, Wind Energy, Hydroelectric, Ocean Energy, Geothermal Energy, Biomass and Hydrogen energy.
Objective	<p>The objectives of guest lecture was:</p> <ol style="list-style-type: none">1. Achieving the goals for substantial reduction in carbon emissions .2. How to utilize the waste heat from biomass for electricity generation also very effectively in industrial application..3. Introduction to green industry which apply the green technology processes concerning the sustainable economy and eco-compatibility .
Outcome of Activity	<ol style="list-style-type: none">1. Students came to know about the advance technology in green energy field and the various renewable energy sources.2. Students aware about potential of renewable energy that dsplaces conventional fuels in four areas: electricity generation, hot water/space heating, transportation, and rural energy services.3. Students will identify the industrial applications of renewable energy in various fields.


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Dist. Nagpur-441501

Date: 19/03/2024

GLIMPSES OF GUEST LECTURE



Mr. Bharat Parate delivering the Guest Lecture



Mr. Bharat Parate delivering the Guest Lecture


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Assignment -I

Subject: Kinematics of Machines (BTME304T)


Semester: B.Tech 3rd Sem (Mechanical Engg.)

Session: 2023-2024

Sr. No.	Questions	COs mapped
Q1	What do you understand by inversion of a kinematic chain ?	CO1
Q2	Explain with the help of neat sketches any one inversion of a single slider crank chain, giving their practical applications.	CO1
Q3	What is an indexing mechanism ?	CO1
Q4	Explain the condition for correct steering.	CO2
Q5	Find expression for the screw efficiency of a square thread. Also determine condition for maximum efficiency	CO2
Q6	Explain hydrostatic lubrication & hydrodynamic lubrication.	CO2


Subject Incharge


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HOD (ME)
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur
Dept. of Mechanical Engg.
HEAD



Assignment -II

Subject: Kinematics of Machines (BTME304T)

Semester: B.Tech 3rd Sem (Mechanical Engg.)

Session: 2023-2024

Sr. No.	Questions	COs mapped
Q1	Deduce an expression for the efficiency of an inclined plane when a body moves up a plane?	CO3
Q2	What are uniform pressure & uniform wear theories? Deduce expressions for the friction torque considering both the theories for a flat collar.	CO3
Q3	What are the two theories applied to friction plates?	CO3
Q4	What is partially self-energizing block brake?	CO4
Q5	Discuss Prony brake dynamometer & Rope brake dynamometer with neat sketches.	CO4
Q6	Explain transmission type dynamometers.	CO4


Subject Incharge


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of Technology, Kalmeshwar, Nagpur



Assignment -III

Subject: Kinematics of Machines (BTME304T)


Semester: B.Tech 3rd Sem (Mechanical Engg.)

Session: 2023-2024

Sr. No.	Questions	COs mapped
Q1	Define base circle, pitch circle, trace point, pitch curve & pressure angle.	CO5
Q2	How are the cams classified?	CO5
Q3	What is a circular arc cam? Find the expression for the velocity & acceleration of a roller follower for such a cam.	CO5
Q4	What is a tangent cam? Find the expression for the velocity & acceleration of a roller follower for such a cam.	CO5


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Dept. of Mechanical Engg.
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ASSIGNMENT MARKSHEET


Subject: Kinematics of Machines (BTME304T)

Semester: B.Tech 3rd Sem (Mechanical Engg.)

SR. NO.	NAME OF STUDENT	ASSIGNMENT MARKS		
		I	II	III
1	Mukul karil	A	A	B
2	Sangan gurao	B	B	B
3	Hemant maroti meshram	A	A	A
4	Sahil hemraj awasare	B	A	B
5	Nitin dyaneshwar makde	B	B	B
6	Sarfaraj wasimkhan pathan	A	B	A
7	Shubham ashokrao kathoke	A	B	A


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Ref: - SSIT/ME/AY2023-24/EE/67

Date: 27/01/2024

NOTICE

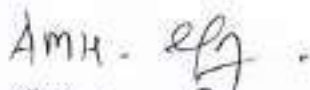

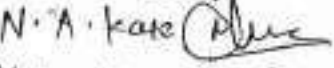
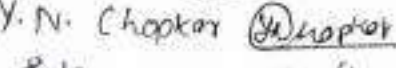
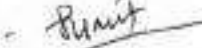
All the Students of 4th, 6th and 8th Semester are hereby informed that, their first Sessional Examination have been scheduled from 31/01/2024 to 02/02/2024. Attendance is mandatory for all the students.


Exam in charge


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Swaminarayan Siddhanta Institute
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Copy to:-

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- 3) IQAC Coordinator
- 4) Circulation in all faculties
- 5) Circulation in class
- 6) Notice Board


AMH - 
RRG - 
N.A. Kate 
Y.N. Chopkar 
- 8-15 - 

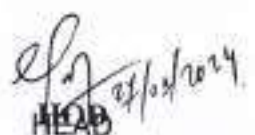

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SESSIONAL EXAMINATION-I
 TIME TABLE
 SESSION: 2023-24 (EVEN)



Sr. No.	DATE	TIME	IV SEM	VI SEM	VIII SEM
1	31/01/2024	09.45-10.45 AM	HYDRAULIC MACHINES	AUTOMATION IN PRODUCTION	INDUSTRIAL ENGINEERING
2	31/01/2024	03.15-04.15 PM	MANUFACTURING PROCESSES	ENERGY CONVERSION-II	ELECTIVE-IV (CIM)
3	01/02/2024	09.45-10.45 AM	ENGG. THERMODYNAMICS	ELE-II (AMT)	ELECTIVE-V (TQM)
4	01/02/2024	03.15-04.15 PM	MECHANICS OF MATERIAL	OP.ELE-I (ENV.ENGG)	ELECTIVE-VI (ECM)
5	02/02/2024	09.45-10.45 AM	PROFESSIONAL ETHICS	DYNAMICS OF MACHINE	---
6	02/02/2024	03.15-04.15 PM	---	ELE-I(RES)	---


 Dept. Exam Incharge


 Dept. of Mechanical Engg.
 Swaminarayan Siddhanta Institute
 Technology, Kalmeshwar, Nagpur

Copy to:-

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- 4) Circulation in all faculties
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- 6) Notice Board

AMH 
 RRT 
 ...


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 Dist. Nagpur-441501



SESSIONAL EXAM - 1

Subject: Mechanics of Materials	Subject Code: BEME403T
Year/ Sem: IV th Semester	Date:

TIME- 1 Hrs.

TOTAL MARKS - 20

Qn.No	Answer the following questions	MARKS	CO Mapped
1	Define strain diagram for brittle material.	5	CO1
2	Define strain diagram for ductile material.	5	CO1
OR			
3	What is Hooks law?	5	CO1
4	Define Young's modulus and modulus of rigidity.	5	CO1
OR			
5	Define Shear force and bending moment.	5	CO2
6	A square beam of 20mm ⁺ 20mm in section and 2m long is supported at the ends. The beam falls when a point load of 400N is applied at the Centre of beam. What U.D.L. per unit length will break a cantilever of the same material 40mm wide, 60mm deep and 3m long?	5	CO2
OR			
7	Define theory of simple bending with assumptions.	5	CO2
8	Define maximum and average shear stress.	5	CO2

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 Dist. Nagpur-441501



Ref: - SSIT/ME/2023-24/SL 03

Date: 08/02/2024

NOTICE

All slow learner students of 4th and 8th semester of mechanical engineering are hereby informed that their Remedial classes are scheduled from 12/02/2024. Attend classes regularly without fail.

Note: List of slow learner students and time table will be displayed on the notice board.

Copy to:

1. The Principal
2. IQAC Coordinator
3. Dean Academics
4. Circulation among staff
5. Circulation among student
6. Notice Board


HEAD

Dept. of Mechanical Engg.
Swaminarayan Siddhanta Institute
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Sarvasiddhanta Education Society's

Swaminarayan Siddhanta Institute of Technology

Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University

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Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Mechanical Engineering



Date:-08/02/2024

REMEDIAL CLASSES TIMETABLE

4th and 8th Semester (SUMMER 2024)

(with effective from 12/02/2024)

DAY	SEM	SUBJECT	NAME OF TEACHER	TIME
MONDAY	4th SEM	ET	Prof. SK	4.15-5.00pm
	8th SEM	TQM	Prof. RG	4.15-5.00pm
TUESDAY	4th SEM	HM	Prof. RRG	4.15-5.00pm
	8th SEM	-----	-----	-----

Copy to-

- 1)Principal Office
- 2) Dean Academics
- 3)IQAC Coordinator
- 4) Concerned Faculties
- 5) Notice Board of ME Department


HOD
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Dept. of Mechanical Eng
Swaminarayan Siddhanta Instit
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Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Mechanical Engineering



DATE: 08/02/2024

SLOW LEARNER LIST

SESSION 2023-24 (EVEN)

8th SEM		
Sr. No.	Name of the students	Less than 50% marks Subjects
1	MAISHKUMAR CHANDRAKANT REWATKAR	TQM

- Copy to- 1)Principal Office
2)IQAC Coordinator
3)Dean Academics
4) Concerned Faculties
5) Notice Board of ME Department


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Tal: Kalmeshwar, Nagpur, Maharashtra-441501
Department of Mechanical Engineering



DATE: 08/02/2024

SLOW LEARNER LIST
SESSION 2023-24 (EVEN)

4th SEM		
Sr. No.	Name of the students	Less than 50% marks Subjects
1	HEMANT M MESHRAM	HM
2	MUKUL R KARIL	ET

- Copy to- 1)Principal Office
2)IQAC Coordinator
3)Dean Academics
4) Concerned Faculties
5) Notice Board of ME Department


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Nagpur-Katol Highway Road, Khapri (Kothe),

Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Mechanical Engineering



DATE: 08/02/2024

SLOW LEARNER LIST

SESSION 2023-24 (EVEN)

8th SEM		
Sr. No.	Name of the students	Less than 50% marks Subjects
1	MAISHKUMAR CHANDRAKANT REWATKAR	TQM

- Copy to- 1)Principal Office
2)IQAC Coordinator
3)Dean Academics
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5) Notice Board of ME Department


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Nagpur-Katol Highway Road, Khapri (Kothic),

Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Mechanical Engineering



ATTENDANCE SHEET FOR SLOW LEARNER

Second Year (A.Y 2023-24)

NAME OF SUBJECT:- *Engineering Thermodynamics*
NAME OF THE TEACHER:- *Somit Patil*

Sr. No.	Name of Student	Branch/Sem	12/02/24	24/02/24	04/03/24	11/03/24	TOTAL
1	HEMANT M MESHARAM	ME/4th SEM	P	P	AB	P	
2	MUKUL R KARIL	ME/4th SEM	P	P	P	AB	

Somit
Subject Teacher

Principal
Principal

Swaminarayan Siddhanta Institute
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Dist. Nagpur-441501

[Signature]
HEAD

Dept. of Mechanical Engg.
Swaminarayan Siddhanta Institute
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Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Mechanical Engineering



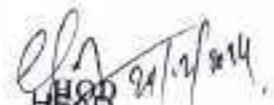
Ref: - SSIT/ME/AY2023-24/EE/08

Date: 29/02/2024


NOTICE




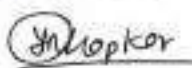

All the Students of 4th, 6th and 8th Semester are hereby informed that, their second Sessional Examination have been scheduled from 04/03/2024 to 06/03/2024. Attendance is mandatory for all the students.


Exam In charge


HEAD
Dept. of Mechanical Engg.
Swaminarayan Siddhanta Institute
Technology, Kalmeshwar, Nagpur

Copy to:-

- 1) Principal Office
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- 4) Circulation in all faculties
- 5) Circulation in class
- 6) Notice Board

1) R.R. Gandle - 
2) AMH 
3) N.A. Kale - 
4) Y. N. Chopkar 
5) S.R. - 


Principal
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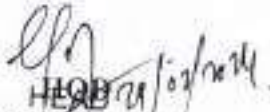


Date:-29/02/2024

SESSIONAL EXAMINATION-II
TIME TABLE
SESSION: 2023-24 (EVEN)

Sr. No.	DATE	TIME	IV SEM	VI SEM	VIII SEM
1	04/03/2024	09.45-10.45 AM	HYDRAULIC MACHINES	AUTOMATION IN PRODUCTION	INDUSTRIAL ENGINEERING
2	04/03/2024	03.15-04.15 PM	MACHINING PROCESS	ENERGY CONVERSION-II	ELECTIVE-IV (CIM)
3	05/03/2024	09.45-10.45 AM	ENGG. THERMODYNAMICS	ELE-II (AMT)	ELECTIVE-V (TQM)
4	05/03/2024	03.15-04.15 PM	MECHANICS OF MATERIAL	OPEN ELE-I (ENV.ENGG)	ELECTIVE-VI (ECM)
5	06/03/2024	09.45-10.45 AM	PROFESSIONAL ETHICS	DYNAMICS OF MACHINE	---
6	06/03/2024	03.15-04.15 PM	---	ELE-I(RES)	---


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AMH efy
RRG - efy



SESSIONAL PAPER-II
 Subject: Renewable Energy Sources (Elec-I)
 Semester: 6th semester (Third Year)

Time: 1 hr.

Total Marks: 20

Instructions:

1. All questions are compulsory
2. Illustrate your answers with neat sketches wherever necessary
3. Figures to the right indicate full marks
4. Use of non-programmable calculator is permissible
5. Assume suitable data if necessary
6. Solve Question1 OR Questions No.2 Question3 OR Questions No.4

Q1	How Biogas is used in S.I. engine? Explain with neat sketch	6M	CO3
Q2	Explain constructional details and working of floating drum biogas plant with advantages and disadvantages over fixed dome biogas plant.	4M	CO3
Q2	What are the various factors affects biogas generation? Explain any four factors in details	4M	CO4
Q3	Define the following terms as applied to wind energy conversion system i) Tip speed ratio ii) Power coefficient	6M	CO3
Q3	Explain working of Claude's cycle OTEC system by giving neat sketch.	5M	CO4
Q3	Describe with neat sketch "Open cycle" Ocean Thermal Energy Conversion system.	5M	CO4
Q4	What are the different global environmental issues? Explain in brief.	5M	CO5
Q4	Write the notes on i) Kyoto protocol ii) Global warming	5M	CO5

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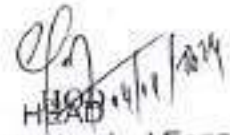
Date: 04/04/2024

Ref. No: - SSIT/ME/AY2023-24/EE/09

NOTICE

All the students of 4th, 6th and 8th Semester are hereby informed that, their pre-university test (P.U.T) will be scheduled from 15/04/2024 to 23/04/2024.


Person in charge


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1) R.G. B
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3) YNC J. K. P.
4) R.R. B. J.
5) S.K. S.


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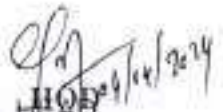


Date:-04/04/2024

PRE-UNIVERSITY TEST (PUT)
TIME TABLE
SESSION: 2023-24 (EVEN)


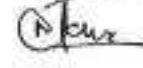

Sl. No.	DATE	TIME	IV SEM	VI SEM	VIII SEM
1	15/04/2024	10 am to 01 pm	HYDRAULIC MACHINES	AUTOMATION IN PRODUCTION	INDUSTRIAL ENGINEERING
2	16/04/2024	10 am to 01 pm	MACHINING PROCESS	ENERGY CONVERSION-II	ELECTIVE-IV (CIM)
3	18/04/2024	10 am to 01 pm	ENGG. THERMODYNAMICS	ELE-II (AMT)	ELECTIVE-V (TQM)
4	20/04/2024	10 am to 01 pm	MECHANICS OF MATERIAL	OPEN ELE-I (ENV.ENGG)	ELECTIVE-VI (ECM)
5	22/04/2024	10 am to 01 pm	PROFESSIONAL ETHICS	DYNAMICS OF MACHINE	---
6	23/04/2024	10 am to 01 pm	---	ELE-I (RES)	---


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PRE UNIVERSITY TEST

Subject: Engineering Thermodynamics	Subject Code: BEME404T
Year/ Sem: IV th Semester	Date:

TOTAL MARKS - 70

TIME- 3 Hrs.

Qn. No	Answer the following questions	MARKS	CO Mapped
1. a)	Explain thermodynamic system and its types with suitable examples.	7	CO1
1. b)	What is Specific heat at Constant Volume and Specific heat at Constant Pressure?	7	CO1
OR			
2. a)	State zeroth law of thermodynamics & give its applications.	7	CO1
2. b)	Show that work is a path function and not a property.	7	CO1
OR			
3. a)	State the general steady flow energy equation (SFEE). Apply it for Steam nozzle and Centrifugal pump.	7	CO2
3. b)	Explain the first law of thermodynamics for a closed system undergoing a cycle and change of state.	7	CO2
OR			
4. a)	Air is compressed from 1 bar and 300k to 5 bar isothermally. Then it receives heat as constant pressure and finally returns to its original condition following the constant volume path. Determine heat transfer, work transfer and change in internal energy for each process and also for the entire cycle.	7	CO2
4. b)	Prove that in a constant volume process the change in internal energy is equal to the heat transfer during that process.	7	CO2

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5. a)	State and explain the second law of thermodynamics	7	CO3
5. b)	Prove that the COP of pump is greater than the COP of Refrigerator by unity.	7	CO3
OR			
6. a)	State and prove Clausius theorem.	7	CO3
6. b)	State and explain Kelvin – Planck and Clausius statement of II nd law of thermodynamics. Prove that they are equivalence to each other.	7	CO3
7. a)	Describe with a neat sketch a throttling calorimeter for measuring the dryness fraction of steam. State its limitations.	7	CO4
7. b)	Water is supplied to the boiler at 15bar and 80°C and steam is generated at the same pressure at 0.9 dryness. Determine the heat supplied in the boiler and change in entropy	7	CO4
OR			
8. a)	Explain the method to determine dryness fraction of steam using combined separating and throttling calorimeter.	7	CO4
8. b)	Steam enters an engine at a pressure of 10 Bar and 400°C. It is exhausted at 0.2 Bar and 0.9 Dry. Find Drop in enthalpy and change in enthalpy.	7	CO4
OR			
9. a)	What are the methods which can lead to the increase in thermal efficiency of Rankine Cycle.	7	CO5
9. b)	Derive an Expression for the thermal efficiency of Diesel Cycle.	7	CO5
OR			
10. a)	Derive an expression for thermal efficiency of Otto cycle.	7	CO5
10. b)	With the help of P-V and T-S, explain working of Stirling and Ericson cycle.	7	CO5