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SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA

Affiliation T-1 Section (0231) 2609089 , 2609136 & 2609146

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४. महाराष्ट्र

(संलग्नता टी-१ विभाग -२६०९०८९, २६०९१३६ व २६०९१४६)

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शिवाजी विद्यापीठ/संलग्नता टी.१/ प्रशांत/ 3589

दिनांक : 17 JUN 2022
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परिपत्रक

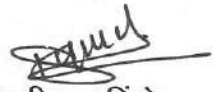
शैक्षणिक वर्ष २०२२- २०२३ या करिता खालील विद्याशाखांच्या पदवी तसेच पदव्युत्तर वर्षाच्या सत्रारंभ व सत्रसमाप्ती तारखा पुढील प्रमाणे राहतील.

विद्याशाखा	प्रथम सत्र		द्वितीय सत्र	
	सत्रारंभ	सत्रसमाप्ती	सत्रारंभ	सत्रसमाप्ती
कला, वाणिज्य, विज्ञान, सामाजिकशास्त्रे, (पदवी अभ्यासक्रम)	01/08/2022	15/12/2022	02/01/2023	17/06/2023
पदव्युत्तर अभ्यासक्रम (विद्यापीठ व महाविद्यालयीन)	01/08/2022	15/12/2022	02/01/2023	03/07/2023
कला व ललितकला (बी.आय.डी. व बी.डेस. पदवी अभ्यासक्रम)	01/08/2022	15/12/2022	02/01/2023	17/06/2023
वाणिज्य व व्यवस्थापन (बी.बी.ए., बी.सी.ए., पदवी अभ्यासक्रम)	01/08/2022	15/12/2022	02/01/2023	17/06/2023
समाजकार्य (पदवी अभ्यासक्रम)	01/08/2022	15/12/2022	02/01/2023	17/06/2023
समाजकार्य (पदव्युत्तर अभ्यासक्रम)	01/08/2022	15/12/2022	02/01/2023	03/07/2023
शिक्षणशास्त्र (पदवी अभ्यासक्रम) द्वितीय, तृतीय व चतुर्थ वर्षासाठी)	01/08/2022	15/12/2022	02/01/2023	17/06/2023
शिक्षणशास्त्र (पदव्युत्तर द्वितीय वर्ष अभ्यासक्रम)	01/08/2022	15/12/2022	02/01/2023	03/07/2023
विधी (पदवी अभ्यासक्रम) तृतीय व चतुर्थ व पाचव्या वर्षासाठी	01/08/2022	15/12/2022	02/01/2023	17/06/2023
विधी (पदव्युत्तर अभ्यासक्रम)	01/08/2022	15/12/2022	02/01/2023	03/07/2023
अभियांत्रिकी, टेक्सटाईल, वास्तुशास्त्र, (पदवी अभ्यासक्रम) चतुर्थ वर्षासाठी	01/08/2022	15/12/2022	02/01/2023	17/06/2023
फार्मसी (पदवी अभ्यासक्रम) तृतीय व चतुर्थ वर्षासाठी)	01/08/2022	15/12/2022	02/01/2023	17/06/2023
आंतरविद्याशाखीय आणि अभ्यास केंद्रातर्गत अभ्यासक्रम	01/08/2022	15/12/2022	02/01/2023	03/07/2023

शैक्षणिक वर्ष २०२२-२०२३ या मधील विधी, वाणिज्य व व्यवस्थापन, अभियांत्रिकी व फार्मसी या विद्याशाखाच्या सत्रारंभ व सत्रसमाप्तीच्या तारखा खालील प्रमाणे राहतील.

विद्याशाखा	प्रथम सत्र		द्वितीय सत्र	
	सत्रारंभ	सत्रसमाप्ती	सत्रारंभ	सत्रसमाप्ती
विधि विद्याशाखा (द्वितीय वर्ष पदवी ३ व ५ वर्ष अभ्यासक्रम)	12/09/2022	14/1/2023	01/02/2023	25/07/2023
वाणिज्य व व्यवस्थापन विद्याशाखा (पदव्युत्तर द्वितीय वर्ष अभ्यासक्रम एम.बी.ए , एम.सी.ए.)	17/08/2022	20/12/2022	02/01/2023	12/07/2023
अभियांत्रिकी विद्याशाखा (पदवी द्वितीय व तृतीय वर्ष)	17/08/2022	20/12/2022	02/01/2023	27/06/2023
अभियांत्रिकी विद्याशाखा (पदव्युत्तर द्वितीय वर्ष अभ्यासक्रम)	10/10/2022	31/01/2023	06/02/2023	28/08/2023
फार्मसी विद्याशाखा (द्वितीय वर्ष पदवी)	17/08/2022	20/12/2022	02/01/2023	27/06/2023
फार्मसी विद्याशाखा (पदव्युत्तर द्वितीय वर्ष अभ्यासक्रम)	10/10/2022	31/01/2023	06/02/2023	28/08/2023

टिप- शैक्षणिक वर्ष २०२२-२०२३ या करिता विधी, वाणिज्य व व्यवस्थापन, अभियांत्रिकी व फार्मसी या अभ्यासक्रमांच्या प्रथम वर्ष सत्रारंभ व सत्रसमाप्ती तारखा शासनाने जाहिर केल्यानंतर प्रवेश प्रक्रियेनुसार कळविण्यात येतील.


डॉ. व्ही. एन. शिंदे
प्रभारी कुलसचिव

प्रति,

- प्राचार्य/संचालक, सर्व संलग्न महाविद्यालये/ मान्यताप्राप्त शिक्षण संस्था.
- विभागप्रमुख, सर्व अधिविभाग, शिवाजी विद्यापीठ, कोल्हापूर.
- विभागप्रमुख, सर्व प्रशासकीय विभाग, शिवाजी विद्यापीठ, कोल्हापूर. सदरचे परिपत्रक विद्यापीठाच्या संकेतस्थळावर www.unishivaji.ac.in - Affiliation-Affiliation T-१ Circulars मध्ये उपलब्ध आहे.



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.

Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Academic Calendar

DACOE/ACADM/AC-FRM-02

AC-FRM-02 - Rev. No: 0 Date:

Ref: DACOE/

Date: 1/08/2022

Academic Year: 2022-23

Semester - I

Date	Day	Programs
10 to 14 Aug 2022	Wednesday to Sunday	Final year Student Training Program
15 Aug 2022	Monday	75 th Independence day Ceremony Azadi ka Amrutmahotsav Celebration
16 Aug 2022	Tuesday	Parasi New Year Holiday
17 Aug 2022	Wednesday	Commencement of First Semester SE to BE
30 Aug 2022	Tuesday	Finalization of Seminar/Project batches & Topics
31 Aug 2022	Wednesday	Shree Ganesh Festival Celebration
02 Sept 2022	Friday	Display of final Seminar & Project topics
05 Sept 2022	Monday	Display of Monthly Attendance and Teacher's Day Celebration
15 Sept 2022	Thursday	Engineer's Day Celebration
30 Sept 2022	Friday	Sharada-Utsav Celebration
26 to 30 Sept 2022	Monday to Friday	Feedback of students - I
3 to 7 Oct 2022	Monday to Friday	Unit Test I (MSE-I)
04 Oct 2022	Tuesday	Khandenavami Celebration
05 Oct 2022	Wednesday	Vijaya Dashami Dussehra Holiday
06 Oct 2022	Thursday	Display of Cumulative Attendance
10 to 13 Oct 2022	Monday to Thursday	Inauguration of Departmental Student Association
13 Oct 2022	Thursday	Presentation of Synopsis of project, Seminar Presentation
14 Oct 2022	Friday	Display of Unit Test I Results
17 to 20 Oct 2022	Monday to Thursday	Expert/Guest/ Workshops on emerging trends
24 to 28 Oct 2022	Monday to Friday	Diwali Celebration

Dean Academics

Principal



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.

Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Academic Calendar

DACOE/ACADM/AC-FRM-02

AC-FRM-02 - Rev. No: 0 Date:

Academic Year: 2022-23 (Continue)

Semester - I

Date	Day	Programs
1 Nov 2022	Tuesday	Commencement and Orientation of First Year Academics
01 to 04 Nov 2022	Tuesday to Friday	Parent Teacher Association Meeting
07 to 11 Nov 2022	Monday to Friday	Feedback of students - II
14 to 18 Nov 2022	Monday to Friday	Unit Test II (MSE-II)
24 Nov 2022	Thursday	Display of Unit Test II Results
28 Nov to 2 Dec 2022	Monday to Friday	Project Presentation Demo I, Seminar/Internship Presentation
2 Dec 2022	Friday	Display of Cumulative Attendance & Provisional Detention list
5 to 9 Dec 2022	Monday to Friday	Internal Oral, Submission and Assessment
12 Dec 2022	Monday	Final detention list
15 Dec 2022	Thursday	Review and conclusion of Semester End
19 to 24 Dec 2022	Monday to Saturday	Tentative External Practical/Oral Exam
27 Dec 2022	Tuesday	Tentative starting of Theory Exam

Note: Due to late admission of First Year and Direct Second Year Dates will changed (Only for First and DSE year Student) as per AICTE, DTE and Shivaji University Schedule

Dean Academics

Principal



G.K. Gujar Memorial Charitable Trust's
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Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Academic Calendar

DACOE/ACADM/AC-FRM-02

AC-FRM-02 - Rev. No: 0 Date:

Ref: DACOE/
Academic Year: 2022-23

Date: 1/01/2023
Semester - II

Date	Day	Programs
17 th Jan 2023	Tuesday	Commencement of Second Semester of Final Year
26 th Jan 2023	Thursday	74 th Republic day Ceremony
30 th Jan. to 4 th Feb 2023	Monday to Saturday	Third & Final year Student Technical Training Program
31 st Jan. 2023	Tuesday	Commencement of Second Semester of SE & TE
4 th Feb 2023	Saturday	Alumni Association Meet 2022-23
6 th Feb to 11 th Feb 2023	Monday to Saturday	Third & Final year Student Aptitude Training Program
18 th Feb 2023	Saturday	Mahashivaratri Holiday
19 th Feb 2023	Sunday	Chhatrapati Shivaji Maharaj Birth Ceremony
24 th Feb 2023	Friday	Final year Project Review and Demo II Presentation
25 th Feb to 5 th Mar. 2023	Saturday to Sunday	Annual Sports Competitions
28 th Feb 2023	Tuesday	Science Day Celebration
6 th Mar.2023	Monday	Display of Monthly Attendance
6 th to 10 th Mar.2023	Monday to Friday	Feedback of students - I
7 th Mar.2023	Tuesday	Holi (2 nd day) Holiday
8 th Mar.2023	Wednesday	Women's day celebration
13 th to 17 th Mar 2023	Monday to Friday	Unit Test I (MSE-I) of SE to BE students
20 th Mar 2023	Monday	Display of Unit Test I Results of SE to BE
21 st Mar 2023	Tuesday	Commencement of second semester of First Year SPECTRUM 2K23 technical event
22 nd Mar 2023	Wednesday	Gudhipadawa Holiday
24 th Mar 2023	Friday	College Annual Gathering- YOUTHSAV 2k23
27 th to 28 th Mar 2023	Monday to Tuesday	Final year Project Review and Demo III Presentation
3 rd Apr. 2023	Monday	Display of Monthly Attendance

Central Activity Attendance & Feedback UT & Project activity Holidays & Ceremony

Dean Academics



Principal



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Academic Calendar

DACOE/ACADM/AC-FRM-02

AC-FRM-02 - Rev. No: 0 Date:

Academic Year: 2022-23 (Continue)

Semester - II

Date	Day	Programs
4 th Apr. 2023	Tuesday	Mahaveer birth ceremony
7 th Apr. 2023	Friday	Good-Friday Holiday
14 th Apr. 2023	Friday	Dr. Babasaheb Ambedkar birth ceremony
17 th to 21 st Apr.2023	Monday to Friday	Student Association programs, Guest/Expert sessions
1 st May 2023	Monday	Maharashtra Day and International Workers' Day ceremony
2 nd to 4 th May 2023	Tuesday to Thursday	Unit Test II (MSE-II) of SE to BE students, FE- UT-I (MSE-I)
5 th May 2023	Friday	Buddha Purnima Holiday
8 th May 2023	Monday	Display of Monthly Attendance
9 th May 2023	Tuesday	Display of Unit Test II Results
10 th to 12 th May 2023	Wednesday to Friday	Parent Teacher Association Meeting
10 th to 12 th May 2023	Wednesday to Friday	Feedback of students - II
15 th to 16 th May 2023	Monday to Tuesday	Final Presentation of project, Seminar/ Internship Presentation and Project Thesis report
15 th to 17 th May 2023	Monday to Wednesday	Curriculum Feedback and Student Satisfaction survey
16 th May 2023	Tuesday	Display of Cumulative Attendance & Provisional Detention list of SE to BE
17 th to 19 th May 2023	Wednesday to Friday	Internal Oral, Submission and Assessment
22 nd May 2023	Monday	Final detention list of SE to BE
23 rd to 26 th May 2023	Tuesday to Friday	Term-work Finalization of SE to BE
29 th May 2023 onwards	Monday	Tentative External Practical/Oral Exam of SE to BE
5 th Jun. 2023 onwards	Monday	Tentative starting of Theory Exam of SE to BE
19 th to 24 th Jun. 2023	Monday to Saturday	FDP/STTP/Workshops on emerging trends
30 th Jun. 2023	Friday	Review and conclusion of Semester End of SE to BE
7 th Jul. 2023	Friday	Tentative Term-end of FE

Central Activity

Attendance & Feedback

UT & Project activity

Holidays & Ceremony


Dean Academics




Principal



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ETC Academic Calendar

DACOE/ACADM/AC-FRM-02

AC-FRM-02 - Rev. No: 0 Date:

Ref: DACOE/

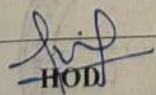
Date: 09/08/2022

Academic Year: 2022-23

Semester - I

Date	Day	Programs
10 to 14 Aug 2022	Wednesday to Sunday	Final year Student Training Program
15 Aug 2022	Monday	75 th Independence day Ceremony Azadi ka Amrutmahotsav Celebration
16 Aug 2022	Tuesday	Parasi New Year Holiday
17 Aug 2022	Wednesday	Commencement of first semester of SY to Final B tech
17 to 31 Aug 2022	Wednesday to Wednesday	Final year Student Internship
31 Aug 2022	Wednesday	Shree Ganesh Festival Celebration
05 Sept 2022	Monday	Display of Monthly Attendance and Teacher's Day Celebration.
07 th Sept 2022	Wednesday	Finalization of Seminar/Project batches & Guides
13 th Sept 2022	Tuesday	Allotment of Mentor Mentee scheme
14 th Sept 2022	Wednesday	Display of final Seminar & Project topics Formation of ETESA student association
15 Sept 2022	Thursday	Engineers Day Celebration.
21 st Sept 2022	Wednesday	Expert session on Health and entrepreneurship
27 Sept 2022	Tuesday	Parent Teacher Association Meeting
29 Sept 2022	Thursday	Session on Interpersonal skills
30 th Sept 2022	Monday	Sharada-Utsav Celebration
26 to 30 Sept 2022	Monday to Friday	Feedback of students - I
03 to 07 Oct. 2022	Monday to Friday	Unit Test I (MSE-I)
04 Oct 2022	Tuesday	Khandenavami Celebration
05 Oct 2022	Wednesday	Vijaya Dashmi Dussehra Holiday
06 Oct 2022	Thursday	Display of Cumulative Attendance All India Radio station visit (Analog Communication, SY B Tech), Commencement and Orientation of First
10 Oct 2022	Monday	Year Academics

Academic In Charge


HOD





G.K. Gujar Memorial Charitable Trust's
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ETC Academic Calendar

DACOE/ACADM/AC-FRM-02

AC-FRM-02 - Rev. No: 0 Date:

13, 14 Oct 2022	Thursday, Friday	Inauguration of ETESA and Hobby Club
14 Oct 2022	Friday	Presentation of Synopsis of project, Seminar Presentation, Display of Unit Test I Results.
17 to 20 Oct 2022	Monday to Thursday	Expert Lecture on Embedded System (Final B Tech) / Workshop/ EETSA Activities etc.
24 to 28 Oct 2022	Monday to Friday	Diwali Celebration
1 Nov 2022	Tuesday	Commencement and orientation of First Year Academics
01 to 04 Nov 2022	Monday to Friday	Parent teacher association meeting
07 to 11 Nov 2022	Monday to Friday	Feedback of students – II
11 Nov 2022	Monday	Industrial Visit (Biomedical Instrumentation, TY B Tech)
14 to 18 Nov 2022	Monday to Friday	Unit Test II (MSE II)
24 Nov 2022	Thursday	Display of Unit Test II Results,
28 Nov to 02 Dec 2022	Monday to Friday	Project Presentation Demo I, Seminar/Internship Presentation, Add on Program, Welcome of Direct Second Year Students
02 Dec 2022	Friday	Display of Cumulative Attendance & Provisional Detention list
05 to 09 Dec 2022	Monday to Friday	Internal oral, Submission and Assessment
12 Dec 2022	Monday	Final detention list
15 Dec 2022	Thursday	Review and conclusion of Semester End
19 to 24 Dec 2022	Monday to Saturday	Tentative Practical/Oral Exam
27 Dec 2022	Tuesday	Tentative start of Theory Exam

Note: Due to late admission of First Year and Direct Second Year Dates will change (Only for First Year and DSE year students) as per AICTE, DTE and Shivaji University Schedule.

Academic In Charge

HOD





G K Gujar Memorial Charitable Trust's
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Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Academic Calendar

DACOE.ACADM.AC-FRM-02

AC-FRM-02 - Rev. No 0 Date:

Date: 04 08 2023

Department of Basic Sciences & Humanities

Academic Year: 2023-24

Semester - I

Date	Day	Programs
7 August 2023	Monday	Commencement of First semester of F. Y. B. Tech
7 to 14 August 2023	Monday to Monday	Student Induction Programme
15 th August 2023	Wednesday	Independence Day
16 to 18 August 2023	Thursday to Friday	Soft Skills Training
5 th September 2023	Tuesday	Teacher Day celebration
15 th September 2023	Friday	Engineers Day celebration
19 th September 2023	Tuesday	Shri Ganesh Festival Holiday
25 th to 27 th Sept. 2023	Monday to Wednesday	Feedback of students – I
25 th to 27 th Sept. 2023	Monday to Wednesday	F. Y. B. Tech UT-I (MSE-I)
27 th to 29 th Sept. 2023	Wednesday to Friday	Parent Teacher Association Meet
28 th Sept. 2023	Thursday	Eid E Milad/ Anant Chaturdashi Holiday
2 nd Oct. 2023	Monday	Mahatma Gandhi Jayanti Holiday
5 th October 2023	Thursday	Display of Monthly Attendance
9 th October 2023	Monday	Display of Unit Test I Results
11 th October 2023	Wednesday	Department Parent Meet
11 th to 13 th Oct. 2023	Wednesday to Friday	Expert/Guest/ Workshop on Emerging Trends
25 th to 27 th Oct. 2023	Wednesday to Friday	F. Y. B. Tech- UT-II (MSE-II)
23 rd Oct. 2023	Monday	Khandenavmi Celebration
24 th Oct. 2023	Tuesday	Vijaya Dashami Dussehra Holiday
1 st to 2 nd Nov. 2023	Wednesday to Friday	Feedback of students II
6 th Nov. 2023	Monday	Display of Monthly Attendance
6 th Nov. 2023	Monday	Display of Unit Test II Results
6 th Nov. 2023	Monday	Display of Cumulative Attendance & Provisional Detention list of F. Y. B. Tech
10 th Nov. 2023	Friday	Final detention list of F. Y. B. Tech
20 th to 21 st Nov. 2023	Monday to Tuesday	Final Submission of Termwork
4 th Dec. 2023	Monday	Term-work Finalization of F. Y. B. Tech
24 th Dec. 2023	Friday	Start of SUK ESE Exam of F. Y. B. Tech


Academic Incharge


HOD


Dean Academics


Principal



G.K. Gujar Memorial Charitable Trust's
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Dr. Daulatrao Aber College of Engineering, Karad.

Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Department of Civil Engineering

Academic Calendar

DACOE/ACADM/AC-FRM-02

AC-FRM-02 - Rev No 0 Date

Ref: DACOE/ Civil/22-23/

Date: 1/08/2022

Academic Year: 2022-23

Semester - I

Date	Day	Activities/Programs
10-08-2022 to 14-08-2022	Wednesday to Sunday	Final year Student Training Program
15-08-2022	Monday	75 th Independence day Ceremony Azadi ka Amrutmahotsav Celebration
16-08-2022	Tuesday	Parasi New Year Holiday
17-08-2022	Wednesday	Commencement of First Semester SE to BE
31-08-2022	Wednesday	Shree Ganesh Festival Celebration
05-09-2022	Monday	Display of Monthly Attendance and Teacher's Day Celebration
10-09-2022	Tuesday	Finalization of Seminar/Project batches & Topics
12-09-2022	Friday	Display of final Seminar & Project topics
15-09-2022	Thursday	Engineers Day Celebration
15-09-2022 to 11-11-2022	Monday to Friday	Industrial Visits
15-09-2022 to 11-11-2022	Monday to Friday	Guest Lectures
19-09-2022 to 21-09-2022	Monday to Wednesday	Unit Test I (MSE-I)
26-09-2022	Monday	Sharada-Utsav Celebration
26-09-2022 to 30-09-2022	Monday to Friday	Feedback of students - I
27-09-2022	Tuesday	Field Training Presentation
29-09-2022	Thursday	Display of Unit Test I Results
30-09-2022	Friday	Presentation of Synopsis of project, Seminar Presentation
04-10-2022	Tuesday	Khandenavami Celebration
06-10-2022	Thursday	Display of Cumulative Attendance
10-10-2022	Monday	Commencement and Orientation of First Year Academics
10-10-2022 to 14-10-2022	Monday to Thursday	Parent Teacher Association Meeting
17-10-2022 to 20-10-2022	Monday to Thursday	CESA Inauguration
21-10-2022 to 26-10-2022	Friday to Wednesday	Diwali Celebration





G.K. Gujar Memorial Charitable Trust's
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Dr. Daulatrao Aher College of Engineering, Karad.

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Department of Civil Engineering

Academic Calendar

DACOE/ACADM/AC-FRM-02

AC-FRM-02 - Rev. No. 0 Date

Academic Year: 2022-23 (Continue)

Semester - I

Date	Day	Programs
01-11-2022 to 03-11-2022	Monday to Wednesday	Unit Test II (MSE-II)
07-11-2022 to 11-11-2022	Monday to Friday	Project Presentation Demo I, Seminar/Internship Presentation
07-11-2022 to 11-11-2022	Monday to Friday	Feedback of students - II
14-11-2022	Tuesday	Display of Unit Test II Results
16-11-2022	Monday	Display of Cumulative Attendance & Provisional Detention list
25-11-2022	Friday	Final detention list
30-11-2022	Wednesday	Review and conclusion of Semester End
12-12-2022 to 17-12-2022	Monday to Saturday	Tentative Practical/Oral Exam
26-12-2022	Monday	Tentative starting of Theory Exam

Academic In-charge



HOD



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.

Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Department of Civil Engineering

Academic Calendar

DACOE/ACADM/AC-FRM-02

AC-FRM-02 - Rev No 0 Date

Ref: DACOE/Civil/22-23/

Date: 1/01/2023

Academic Year: 2022-23

Semester - II

Date	Day	Programs
26 th Jan 2023	Thursday	74 th Republican day Ceremony
30 th Jan 2023	Monday	Commencement of Second Semester of Final Year
30 th Jan. to 4 th Feb 2023	Monday to Saturday	Third & Final year Student Technical Training Program
4 th Feb 2023	Saturday	Alumni Association Meet 2022-23
6 th Feb to 11 th Feb 2023	Monday to Saturday	Third & Final year Student Aptitude Training Program
6 th Feb 2023	Monday	Commencement of Second Semester of SE & TE
7 th Feb 2023	Tuesday	HOD's Feedback
19 th Feb 2023	Sunday	Chhatrapati Shivaji Maharaj Birth Ceremony
24 th Feb 2023	Friday	Final year Project Review and Demo II Presentation
25 th Feb to 5 th Mar 2023	Saturday to Sunday	Annual Sports Competition
28 th Feb 2023	Tuesday	Science Day Celebration
6 th Mar 2023	Monday	Display of Monthly Attendance
6 th to 8 th Mar 2023	Monday to Wednesday	Feedback of students - I
7 th Mar 2023	Tuesday	Holi (2 nd day) Holiday
8 th Mar 2023	Wednesday	Women's day celebration
15 th to 17 th Mar 2023	Wednesday to Friday	Unit Test I (MSE-I) of SE to BE students
21 st Mar 2023	Tuesday	Display of Unit Test I Results
22 nd Mar 2023	Wednesday	Gudhipadawa Holiday
24 th Mar 2023	Friday	College Annual Gathering- Youthsav 2k23
27 th to 28 th Mar 2023	Monday to Tuesday	Final year Project Review and Demo III Presentation
27 th to 31 st Mar 2023	Monday to Friday	SPECTRUM 2k23 technical event, Add On Course, Value Added Course, Swayam, MOOC
4 th Apr 2023	Tuesday	Mahaveer birth ceremony





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Department of Civil Engineering

Academic Calendar

DACOE/ACADM/AC-FRM-02

AC-FRM-02 - Rev No. 0 Date

Academic Year: 2022-23 (Continue)

Semester - II

Date	Day	Programs
5 th Apr 2023	Wednesday	Display of Monthly Attendance
7 th Apr 2023	Friday	Good-Friday Holiday
14 th Apr 2023	Friday	Dr Babasaheb Ambedkar birth ceremony
17 th to 21 st Apr 2023	Monday to Friday	CESA Programs, Guest/Expert sessions, Workshop/ Seminar/Conference on Research Methodology , IPR, Entrepreneurship
1 st May 2023	Monday	Maharashtra Day and International Workers' Day ceremony
2 nd to 4 th May 2023	Tuesday to Thursday	Unit Test II (MSE-II) of SE to BE students,
4 th May 2023	Thursday	Display of Monthly Attendance
5 th May 2023	Friday	Buddha Purnima Holiday
9 th May 2023	Tuesday	Display of Unit Test II Results
10 th to 12 th May 2023	Wednesday to Friday	Parent Teacher Association Meeting
10 th to 12 th May 2023	Wednesday to Friday	Feedback of students - II
15 th to 16 th May 2023	Monday to Tuesday	Final Presentation of project, Seminar/ Internship Presentation and Project Thesis report
16 th May 2023	Tuesday	Display of Cumulative Attendance & Provisional Detention list
17 th to 19 th May 2023	Wednesday to Friday	Internal Oral, Submission and Assessment
22 nd May 2023	Monday	Final detention list
23 rd to 26 th May 2023	Tuesday to Friday	Term-work Finalization
26 th May 2023 onwards	Friday	Tentative External Practical/Oral Exam
5 th Jun. 2023 onwards	Monday	Tentative starting of Theory Exam
19 th to 24 th Jun. 2023	Monday to Saturday	FDP/STTP/Workshops on emerging trends
27 th Jun. 2023	Tuesday	Review and conclusion of Semester End

Dept. Academic In-charge



HOD 11/1/23



G.K. Gujar Memorial Charitable Trust's
DR. ASHOK GUJAR TECHNICAL INSTITUTE'S
DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD
Vidyanagar Extn., Dist. Satara

Department of Mechanical Engineering

Departmental Academic Calendar
2022-2023 (Semester I)

17-Aug-22	Commencement of First Semester SE to BE
30-Aug-22	Finalization of Seminar/Project batches & Topics
31-Aug-22	Shree Ganesh Festival Celebration
02-Sep-22	Display of final Seminar & Project topics
05-Sep-22	Display of Monthly Attendance and Teacher's Day Celebration
15-Sep-22	Engineer's Day Celebration
30-Sep-22	Sharada-Utsav Celebration
26 to 30 Sept 2022	Feedback of students - I
3 to 7 Oct 2022	Unit Test I (MSE-I)
03 Oct - 30 Nov	Industrial Visits
04-Oct-22	Khandenavami Celebration
05-Oct-22	Vijaya Dashami Dussehra Holiday
06-Oct-22	Display of Cumulative Attendance
10 to 13 Oct 2022	Inauguration of Departmental Student Association
11 to 14 Oct 2022	Presentation of Synopsis of project
14-Oct-22	Display of Unit Test I Results
17 oct - 30 Nov	Guest Lectures
17 to 20 Oct 2022	Expert/Guest/ Workshops on emerging trends
24 to 28 Oct 2022	Diwali Celebration
01-Nov-22	Commencement and Orientation of First Year Academics
01 to 04 Nov 2022	Parent Teacher Association Meeting
07 to 11 Nov 2022	Feedback of students - II
08 to 11 Nov 2022	MESA Inauguration
08 to 11 Nov 2022	Industrial Training Presentation





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DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD
Vidyanagar Extn., Dist. Satara

Department of Mechanical Engineering

14 to 18 Nov 2022	Unit Test II (MSE-II)
24-Nov-22	Display of Unit Test II Results
28 Nov to 2 Dec 2022	Project Presentation Demo I, Seminar/Internship Presentation
02-Dec-22	Display of Cumulative Attendance & Provisional Detention list
5 to 9 Dec 2022	Internal Oral, Submission and Assessment
12-Dec-22	Final detention list
15-Dec-22	Review and conclusion of Semester End
19 to 24 Dec 2022	Tentative External Practical/Oral Exam
27-Dec-22	Tentative starting of Theory Exam

Academic Incharge

Prof. P.S. Mohite

HOD

Prof. S.J. Mulani

Head of Mechanical Engg. Dept.
Dr. Daulatrao Aher College of Engineering,
Banawadi-Karad.





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DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD
Vidyanagar Extn., Dist. Satara

Department of Mechanical Engineering

**Departmental Academic Calendar
2022-2023 (Semester II)**

Date	Activity
17-Jan-23	Commencement of 2 nd Semester of Final year
26-Jan-23	74 th Republic Day Ceremony
31-Jan-23	Commencement of 2 nd Semester of 2 nd and 3 rd year
18-Feb-23	Mahashivratri Holiday
19-Feb-23	Chhatrapati Shivaji Maharaj Birth Ceremony
24-Feb-23	Project Progress Review 1 st
28-Feb-23	Science Day Celebration
28 Feb to 12 May	Industrial Visits
29 Feb to 12 May	Guest Lecture
06-Mar-23	Display of Monthly Attendance
6 to 10 March	Student feedback I
07-Mar-23	Holi
08-Mar-23	Woman's Day
13 - 17 Mar 2023	Unit Test I (MSE I) of S.Y. to Final Year B.Tech Students
20 Mar 2023	Display of Unit Test I Result
22-Mar-23	Gudipadava Holiday
24-Mar-23	College Annual Gathering
27 - 28 Mar 2023	Project Progress Review 2 nd
03-Apr-23	Display of Monthly Attendance
2 to 4 May 2023	Unit Test II
09-May-23	Display of Unit Test II Result





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DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD
Vidyanagar Extn., Dist. Satara

Department of Mechanical Engineering

10 - 12 May 2023	Parent Meet
10 - 12 May 2023	Feedback of Students II
15 -16 May 2023	Final Presentation of Project, seminar/Internship.
16-May-23	Display of Cumulative Attendance , Provisional Detention List
17 - 19 May 2023	Internal Submission and Assessment
22-May-23	Final Detention List
29-May-23	Tentative starting of University Practical / Oral Examination
05-Jun-23	Tentative starting of University Theory Examination

Note:- Academic meeting on every Thursday at 5.00 pm.

**Academic In Charge
Mr. P. S. Mohite**



**Head of Department
Mr. S. J. Mulani**

CBCS Pattern (Effective from June 2018 onward)

Course List

Semester – I

Physics Group			
Sl. No	Code No.	Subject	Credits
1.	BSC-P-101	Engineering Physics	4
2.	BSC-M-I-102	Engineering Mathematics-I	4
3.	ESC-P-103	Basic Electrical Engineering	4
4.	ESC-P-104	Basic Civil Engineering	4
5.	ESC-P-105	Engineering Graphics	4
6.	HM-I-106	Professional Communication-I	2
7.	ESC-W-I-107	Workshop Practice-I	2
		Total	24

Chemistry Group			
Sl. No	Code No.	Subject	Credits
1.	BSC-C-101	Engineering Chemistry	4
2.	BSC-M-I-102	Engineering Mathematics-I	4
3.	ESC-C-103	Fundamentals of Electronics and Computer Programming	4
4.	ESC-C-104	Applied Mechanics	4
5.	ESC-C-105	Basic Mechanical Engineering	4
6.	HM-I-106	Professional Communication-I	2
7.	ESC-W-I-107	Workshop Practice-I	2
		Total	24




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Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

CBCS Pattern (Effective from June 2018 onwards)

Semester II

Chemistry Group			
Sl. No	Code No.	Subject	Credits
1.	BSC-C-201	Engineering Chemistry	4
2.	BSC-M-II-202	Engineering Mathematics-II	4
3.	ESC-C203	Fundamentals of Electronics and Computer Programming	4
4.	ESC-C204	Applied Mechanics	4
5.	ESC-C205	Basic Mechanical Engineering	4
6.	HM-II-206	Professional Communication-II	2
7.	ESC-W-II-207	Workshop Practice-II	2
Total			24

Physics Group			
Sl. No	Code No.	Subject	Credits
1.	BSC-P-201	Engineering Physics	4
2.	BSC-M-II-202	Engineering Mathematics-II	4
3.	ESC-P-203	Basic Electrical Engineering	4
4.	ESC-P-204	Basic Civil Engineering	4
5.	ESC-P-205	Engineering Graphics	4
6.	HM-II -206	Professional Communication-II	2
7.	ESC-W-II-207	Workshop Practice-II	2
Total			24




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SHIVAJI UNIVERSITY, KOLHAPUR

REVISED SYLLABUS AND STRUCTURE
THIRD YEAR (C.B.C.S.) BACHELOR OF TECHNOLOGY
IN

Computer Science and Engineering

To be introduced from the academic year 2020-21

(w. e. f. June 2020) onwards



Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

THIRD YEAR COMPUTER SCIENCE AND ENGINEERING - CBCS PATTERN																
SEMESTER - V																
Sr. No.	Course Subject / Title	TEACHING SCHEME						EXAMINATION SCHEME								
		THEORY			TUTORIAL		PRACTICAL		THEORY				ORAL / PRACTICAL		TERMWORK	
		Credits	No. Of Lectures	Hours	Credits	No. of Hours	Credits	No. of Hours	mode	marks	Total Marks	MIN.	MAX	MIN.	MAX	MIN.
1	PCC-CS501 Information Security	3	3	3			1	2	CIE	30	100	40			50	20
								ESE	70							
2	PCC- CS502 System Programming	3	3	3			1	2	CIE	30	100	40	25	10	50	20
								ESE	70							
3	PCC- CS503 Object-Oriented Modeling & Design	3	3	3					CIE	30	100	40				
								ESE	70							
4	PCC- CS504 Computer Algorithms	4	4	4	1	1			CIE	30	100	40			25	10
								ESE	70							
5	OEC- CS505 Computer Graphics & Multimedia OEC-CS506 Internet of Things	3	3	3					CIE	30	100	40				
								ESE	70							
6	PCC- CS507 Java Programming	3	3	3			2	4					50	20	50	20
7	HM- CS508 Business English				1	2							25	10	25	10
	Total (SEM -V)	19	19	19	2	3	4	8			500		100		200	



Principal
Dr. Ashok Gujar, Technical Institute-9
Dr. Dattatraya Aher College of Engineering, Karad

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for T.Y. Sem V & VI : 800 + 800 =1600
• Theory and Practical Lectures : 60 Minutes Each	• Total Credits for T.Y. Sem V & VI : 50 (SEM-V: 25 + SEM -VI: 25)
• In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.	
• There shall be separate passing for theory and practical (term work) courses.	

Note:

1. **PCC-CS:** Professional Core Course – Computer Science and Engineering are compulsory.
2. **HM-CS:** Humanities and Management- Computer Science and Engineering are compulsory.
3. **PW-CS:** Domain Specific Mini Project – Computer Science and Engineering are compulsory.
4. **#OEC-CS: Open Elective Course** – To be offered to Inter departmental students.
 - # - 60% of the students from other branches to be chosen on merit.
 - 40% of the students may be from same branch based on merit.
 - Number of students to be allowed should be 72(Max.) for the branch with intake of 60 students.
 - The above ratio should be followed in proportionate to the sanctioned intake.

OPEN ELECTIVE COURSE-I

Sr. No.	Name of the Subject	Name of the concern Branch
1	i) Computer Graphics & Multimedia ii) Internet of Things	Computer Science and Engineering

OPEN ELECTIVE COURSE-II

Sr. No.	Name of the Subject	Name of the concern Branch
1	i) E-Commerce & Digital Marketing ii) Cyber Security	Computer Science and Engineering



Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

Principal

THIRD YEAR COMPUTER SCIENCE AND ENGINEERING - CBCS PATTERN

SEMESTER - VI

Sr. No.	Course Subject / Title	TEACHING SCHEME						EXAMINATION SCHEME								
		THEORY			TUTORIAL		PRACTICAL		THEORY			ORAL / PRACTICAL		TERMWORK		
		Credits	No. Of Lectures	No. of Hours	Credits	No. of Hours	Credits	No. of Hours	mode	marks	Total Marks	MIN.	MAX	MIN.	MAX	MIN.
1	PCC-CS601 Compiler Construction	3	3	3			1	2	CIE	30	100	40			25	10
									ESE	70						
2	PCC- CS602 Operating System-II	4	4	4			1	2	CIE	30	100	40			25	10
									ESE	70						
3	PCC- CS603 Database Engineering	4	4	4			1	2	CIE	30	100	40	50	20	25	10
									ESE	70						
4	PCC- CS604 Machine Learning	3	3	3	1	1			CIE	30	100	40			25	10
									ESE	70						
5	OEC- CS605 E-Commerce & Digital Marketing OEC - CS606 ii) Cyber Security	3	3	3					CIE	30	100	40				
									ESE	70						
6	PCC- CS607 C# Programming	2	2	2			1	2					50	20	25	10
7	PW- CS608 Domain Specific Mini Project						1	2					50	20	25	10
Total (SEM -VI)		19	19	19	1	1	5	10			500		150		150	
Total (SEM - V+ SEM - VI)		38	38	38	3	4	9	18			1000		250		350	

CIE- Continuous Internal Evaluation

ESE - End Semester Examination



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Dr. Ashok Gajar Technical Institute's
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SHIVAJI UNIVERSITY, KOLHAPUR



Accredited by NAAC 'A' Grade

Syllabus for

**Third Year, Bachelor of
Technology (T.Y.B. Tech.)
Electronics &
Telecommunication Engineering
Program
(w. e. f. Academic Year: 2020-21)**

Semester V

Sr. No	Code No.	Subject	Semester	Credits
1.	PCC-ETC501	Signal and Systems	5	5
2.	PCC-ETC502	Electromagnetic Engineering	5	4
3.	PCC-ETC503	Digital and VLSI Design	5	5
4.	PCC-ETC504	Optical Communication	5	5
5.	OEC-ETC501	Open Elective – I	5	4
6.	PCC-ETC505	Simulation and Modeling	5	2
		Total		25

Semester VI

Sr. No	Code No.	Subject	Semester	Credits
1.	PCC-ETC601	Digital Signal Processing	6	5
2.	PCC-ETC602	Microprocessor and Microcontrollers	6	5
3.	PCC-ETC603	Power Electronics	6	5
4.	PCC-ETC604	Antenna and Wave Propagation	6	5
5.	OEC-ETC601	Open Elective – II	6	4
6.	PCC-ETC605	Mini Project	6	1
		Total		25

- **For Theory CIE 30 marks,**
Two tests of 30 marks at college should be conducted and best of two marks should be communicated to university.
- **Guidelines to paper setter:**
In theory ESE examination of 70 marks following points should be considered,
 - Q.1 MCQ's based on complete syllabus. (Carries 14 Marks)**
 - Q.2 based on unit no 1, 2, 3 (Carries 14 Marks)**
 - Q.3 based on unit no 1, 2, 3 (Carries 14 Marks)**
 - Q.4 based on unit no 4, 5, 6 (Carries 14 Marks)**
 - Q.5 based on unit no 4, 5, 6 (Carries 14 Marks)**

Third Year ELECTRONICS & TELECOMMUNICATION ENGINEERING – CBCS PATTERN

SEMESTER – V																					
Sr. No	Course (Subject Title)	TEAETCING SETCEME									EXAMINATION SETCEME										
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERM		
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PCC-ETC501	4	4	4	1	1	1	-	-	-	CIE	30	100	12	As per BOS Guidelines	-	-	2	25	10	
										ESE	70		28								
2	PCC-ETC502	3	3	3	1	1	1	-	-	-	CIE	30	100	12					2	25	10
										ESE	70		28								
3	PCC-ETC503	4	4	4	-	-	-	1	2	2	CIE	30	100	12			50	20	2	25	10
										ESE	70		28								
4	PCC-ETC504	4	4	4	-	-	-	1	2	2	CIE	30	100	12		50	20	2	25	10	
										ESE	70		28								
5	OEC-ETC501	3	3	3	1	1	1	-	-	-	CIE	30	100	12				2	25	10	
										ESE	70		28								
6	PCC-ETC505	1	1	1	-	-	-	1	2	2						50	20	2	25	10	
	TOTAL	19	19	19	3	3	3	3	6	6			500			150			150		
SEMESTER –VI																					
1	PCC-ETC601	4	4	4	-	-	-	1	2	2	CIE	30	100	12	As per BOS Guidelines	-	-	2	25	10	
										ESE	70		28								
2	PCC-ETC602	4	4	4	-	-	-	1	2	2	CIE	30	100	12			50	20	2	25	10
										ESE	70		28								
3	PCC-ETC603	4	4	4	-	-	-	1	2	2	CIE	30	100	12					2	25	10
										ESE	70		28								
4	PCC-ETC604	4	4	4	-	-	-	1	2	2	CIE	30	100	12		50	20	2	25	10	
										ESE	70		28								
5	OEC-ETC601	3	3	3	1	1	1	-	-	-	CIE	30	100	12				2	25	10	
										ESE	70		28								
6	PCC-ETC605	-	-	-	-	-	-	1	2	2						50	20	2	25	10	
	TOTAL	19	19	19	1	1	1	5	10	10			500			150			150		
	TOTAL	38	38	38	4	4	4	8	16	16			1000			300			300		

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

Note:

1. **PCC-ETC:** Professional Core course –Electronics & Telecommunication Engineering are compulsory.
2. **OCE-ETC:** Open Elective Course – Electronics & Telecommunication Engineering:
3. **Winter/Summer Internship/Industrial Training of minimum 15 day's compulsory and evaluation of the same will be carried out in Final year Project Phase internal assessment by respective Guide**

SHIVAJI UNIVERSITY, KOLHAPUR



**Accredited by NAAC 'A' Grade
Syllabus for**

Final Year Bachelor of Technology

(B. Tech)

**Electronics and Telecommunication
Engineering Program**

(w. e. f. Academic Year: 2021-22)

Semester VII

Sr. No.	Code No.	Subject	Semester	Credits
1	PCC-ETC701	Satellite Communication	7	4
2	PCC-ETC702	Embedded Systems	7	5
3	PCC-ETC703	Computer Networks	7	5
4	PCC-ETC704	Image Processing	7	5
5	PCE-ETC701	Elective-I	7	4
6	PW-ETC701	Project Phase-I	7	2
Total				25

Semester VIII

Sr. No.	Code No.	Subject	Semester	Credits
1	PCC-ETC801	Microwave Engineering	8	5
2	PCC-ETC802	Wireless Communication	8	5
3	PCC-ETC803	Video Engineering	8	5
4	PCE-ETC801	Elective-II	8	4
5	PW-ETC801	Project Phase-II	8	6
Total				25

Elective-I	Elective-II
Speech Processing	High Performance Communication Network
Radar and Navigation	Advance Network Security
Java Script	Electrical Automobile
Information Theory And Coding Techniques	Big Data Analytics

*****For Theory CIE 30 Marks,**

Two tests of 30 marks at college should be conducted and best of two marks should be communicated to university.

*****Guidelines to paper setter:**

In theory ESE examination of 70 marks following points should be considered,

1. First question of 10 marks should be allotted to Objective type questions.
2. In Remaining 60 marks, four questions of 15 marks should be considered.

FINAL YEAR ELECTRONICS & TELECOMMUNICATION ENGINEERING –CBCS PATTERN Semester Examination

SEMESTER –VII																					
Sr. No	Course (Subject Title)	TEACHING SETEME									EXAMINATION SETEME										
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERM WORK		
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PCC-ETC701	3	3	3	1	1	1	-	-	-		CIE 30	100	40	As per BOS Guidelines	-	-	2	25	10	
										ESE 70								50	20	2	25
2	PCC-ETC702	4	4	4	-	-	-	1	2	2		CIE 30	100	40							
										ESE 70								50	20	2	25
3	PCC-ETC703	4	4	4	-	-	-	1	2	2		CIE 30	100	40							
										ESE 70								50	20	2	25
4	PCC-ETC704	4	4	4	-	-	-	1	2	2		CIE 30	100	40							
										ESE 70							-	-	2	25	10
5	PCE-ETC701	3	3	3	1	1	1	-	-	-		CIE 30	100	40							
										ESE 70							-	-	2	25	10
6	PW-ETC701	-	-	-	-	-	-	2	4	4		-	-	-		25	10	2	50	10	
	TOTAL	18	18	18	2	2	2	5	10	10			500			125			175		
SEMESTER –VIII																					
1	PCC-ETC801	4	4	4	-	-	-	1	2	2		CIE 30	100	40	As per BOS Guidelines	50	20	2	25	10	
											ESE 70								-	-	2
2	PCC-ETC802	4	4	4	-	-	-	1	2	2		CIE 30	100	40							
											ESE 70								50	20	2
3	PCC-ETC803	4	4	4	-	-	-	1	2	2		CIE 30	100	40							
											ESE 70								50	20	2
4	PCE-ETC801	3	3	3	1	1	1	-	-	-		CIE 30	100	40							
											ESE 70							-	-	2	25
5	PW-ET801	-	-	-	-	-	-	6	8	8		-	-	-		150	60	2	50	20	
	TOTAL	15	15	15	1	1	1	9	14	14			400			250			150		
	TOTAL	33	33	33	3	3	3	14	24	24			900			375			325		

CIE- Continuous Internal Evaluation
ESE – End Semester Examination

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for B.E. Sem VII & VIII : 1600
• Theory and Practical Lectures : 60 Minutes Each	• Total Credits for B.E. Sem VII & VIII : 50
• In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.	
• There shall be separate passing for theory and practical (term work) courses.	

Note:

1. **PCC-ET:** Professional Core course –Electronics & Telecommunication Engineering is compulsory.
2. **PCE-ET:** Professional Core Elective –Electronics & Telecommunication Engineering is compulsory.
3. **SI-ET:** Summer Internship-Electronics & Telecommunication Engineering is compulsory.
4. **PW-ET:** Project work- Electronics & Telecommunication Engineering is compulsory.
5. **MC-ET:** Mandatory Course- Electronics & Telecommunication Engineering is compulsory



SHIVAJI UNIVERSITY, KOLHAPUR

REVISED SYLLABUS AND STRUCTURE

SECOND YEAR (B. Tech)

Electronics and Telecommunication Engineering

To be introduced from the academic year 2019-20
(i.e. from June 2019) onwards

Semester III

Sr. No	Code No.	Subject	Semester	Credits
1	BSC-ETC301	Engineering Mathematics-III	3	4
2	PCC-ETC-301	Electronic Circuit Design-I	3	5
3	PCC-ETC302	Network Analysis	3	5
4	PCC-ETC303	Transducers and Measurement	3	4
5	PCC-ETC304	Analog Communication	3	4
6	PCC-ETC305	Programming Lab-I	3	3
7	MC-ETC-301	Environmental studies	3	3**
Total				25

**over and above credit

Semester IV

Sr. No.	Code No.	Subject	Semester	Credits
1	PCC-ETC401	Electronic Circuit Design-II	4	5
2	PCC-ETC402	Linear integrated Circuits	4	5
3	PCC-ETC403	Control System Engineering	4	4
4	PCC-ETC404	Digital Communication	4	4
5	PCC-ETC405	Data Structures	4	4
6	PCC-ETC406	Programming Lab-II	4	3
Total				25

*****For Theory CIE 30 Marks,**

Two tests of 30 marks at college should be conducted and best of two marks should be communicated to university.

*****Guidelines to paper setter:**

In theory ESE examination of 70 marks following points should be considered,

1. First question of 10 marks should be allotted to Objective type questions.
2. In Remaining 60 marks, four questions of 15 marks should be considered.

SECOND YEAR ELECTRONICS & TELECOMMUNICATION ENGINEERING – CBCS PATTERN

Semester Examination

SEMESTER - III																							
Sr · No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME												
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERM WORK				
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min		
1	BSC-ETC301	3	3	3	1	1	1	-	-	-		CIE	30	100	40	As per BOS Guidelines	-	-	2	25	10		
										ESE	70												
2	PCC-ETC301	4	4	4	-	-	-	1	2	2		CIE	30	100	40		As per BOS Guidelines	50	20	2	25	10	
										ESE	70												
3	PCC-ETC302	4	4	4	1	1	1	-	-	-		CIE	30	100	40			As per BOS Guidelines	-	-	2	25	10
										ESE	70												
4	PCC-ETC303	3	3	3	-	-	-	1	2	2		CIE	30	100	40	As per BOS Guidelines					2	25	10
										ESE	70												
5	PCC-ETC304	3	3	3	-	-	-	1	2	2		CIE	30	100	40		As per BOS Guidelines		50	20	2	25	10
										ESE	70												
6	PCC-ETC305	2	2	2	-	-	-	1	2	2		-	-	-	-			As per BOS Guidelines	50	20	2	25	10
	TOTAL	19	19	19	2	2	2	4	8	8				500					150			150	
SEMESTER - IV																							
1	PCC-ETC401	4	4	4	-	-	-	1	2	2		CIE	30	100	40	As per BOS Guidelines	50		20	2	25	10	
										ESE	70												
2	PCC-ETC402	4	4	4	-	-	-	1	2	2		CIE	30	100	40		As per BOS Guidelines	50	20	2	25	10	
										ESE	70												
3	PCC-ETC403	3	3	3	1	1	1	-	-	-		CIE	30	100	40			As per BOS Guidelines	-	-	2	25	10
										ESE	70												
4	PCC-ETC404	3	3	3	-	-	-	1	2	2		CIE	30	100	40	As per BOS Guidelines			-	-	2	25	10
										ESE	70												
5	PCC-ETC405	3	3	3	1	1	1	-	-	-		CIE	30	100	40		As per BOS Guidelines		-	-	2	25	10
										ESE	70												
6	PCC-ETC406	2	2	2	-	-	-	1	2	2								As per BOS Guidelines	50	20	2	25	10
7	MC-ETC	-	-	-	-	-	-	-	-	-		CIE	30	100	10	As per BOS Guidelines			-	-		-	-
											ESE	70	30										
	TOTAL	19	19	19	2	2	2	4	8	8				600					150			150	
	TOTAL	38	38	38	4	4	4	8	16	16				1100					300			300	

CIE- Continuous Internal Evaluation.

ESE – End Semester Examination

<ul style="list-style-type: none"> • Candidate contact hours per week : 30 Hours (Minimum) 	<ul style="list-style-type: none"> • Total Marks for S.E. Sem III & IV : 1600
<ul style="list-style-type: none"> • Theory and Practical Lectures : 60 Minutes 	<ul style="list-style-type: none"> • Total Credits for S.E. Sem III & IV : 50
<ul style="list-style-type: none"> • In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE. 	
<ul style="list-style-type: none"> • There shall be separate passing for theory and practical (term work) courses. 	



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
 Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Program: **Mechanical Engineering**

DACOE/ACADM/LD-FRM-01

Academic Year 2022-2023 Sem.: Odd

LD-FRM-01- Rev. No: 0 Date:

Academic Work Load Distribution

Date: 10/08/2022

Sr. No.	Name of faculty	Subject	Class	LT	PR	TUT	PRJ	TOT	Sign
1	Prof. S. J. Mulani	ERP	T.Y.	2	-	1	2	5	
		CE	T.Y.	-	1*2				
2	Prof. S. D. Bagade	FM	S.Y.	3	4*2	-	2	15	
		M\C Drwg	S.Y.	-	2*2	-			
3	Prof. V. V. Rangate	ATD	S.Y.	3	4*2	-	2	13	
		WP III	S.Y.	-	1*2	-			
4	Prof. P. S. Mohite	HMT	T.Y.	3	4*2	-	2	15	
		WP V	T.Y.	-	2*2	-			
5	Prof. P. S. Gunavant	ME	T.Y.	3	4*2	-	2	11	
		WP III	S.Y.	-	1*2	-			
6	Prof. S. V. Janugade	META	S.Y.	3	4*2	-	2	15	
		WP III	S.Y.	-	2*2	-			
7	Prof. V. M. Jamadar	RAC	B.Tech	3	4*2	-	2	15	
		WP V	T.Y.	-	2*2	-			
8	Prof. H. K. Shete	CE	T.Y.	3	3*2	-	2	13	
		WP III	S.Y.	-	1*2	-			
9	Prof. V. D. Yadav	FEA	B.Tech	3	4*2	-	2	15	
		CAD/CAM LAB	T.Y.	-	2*2	-			
10	Prof. A. D. Awasare	MSD	B.Tech	3	4*2	-	2	11	
11	Prof. A. B. Shelar	ENGG GRAPHICS	F.Y. B	3	3*2		-	24	
		ENGG GRAPHICS	F.Y. C	3	3*2				
		WP I	F.Y. C	-	3*2				
12	Prof. R.R. Chavan	TOM II	T.Y.	3	4*2	-	2	15	
		M\C Drwg	S.Y.	-	2*2	-			
13	Prof. S. A. Budhe	BME	F.Y. A	3	3*2	-	-	24	
		WP I	F.Y. A	1	3*2				
			F.Y. B	1	3*2				
14	Prof. Bhise P.P	AE	B.Tech	3	4*2	-	2	19	
		MD I	T.Y.	3	-	1			
		CAD/CAM LAB	T.Y.	-	2*2				



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Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Program: **Mechanical Engineering**

DACOE/ACADM/LD-FRM-01

Academic Year 2022-2023 Sem.: Odd

LD-FRM-01- Rev. No: 0 Date:

Academic Work Load Distribution

15	CSE Faculty	C++	S.Y.	-	4*2	-	-	8
16	Prof. P.B. Pisal	EVS	S.Y.	3	-	-	-	3
17	Prof. A.A.Panaskar	Engg. Maths III	S.Y.	3	-	1	-	4
18	Prof. V. B. Suryawanshi	Electrical Technology	S.Y.	3	4*2	-	-	11
19	Prof. M. M. Kumthekar	TQM	B.Tech	3	4*2	-	-	11

Academic In charge

HOD

Head of Mechanical Engg. Deptt.
Dr. Daulatrao Aher College of Engineering,
Banawadi-Karad.





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 Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Program: **Mechanical Engineering**

DACOE/ACADM/LD-FRM-01

Academic Year **2022 – 2023**

Sem.: **II**

LD-FRM-01- Rev. No: 0 Date:

Academic Work Load Distribution

Sr. No.	Name of faculty	Subject	Class	LT	PR	TUT	PRJ	TOT	Sign
1	Prof. S. J .Mulani	PM	B.TECH	3X1	4X2	-	2	17	<i>m.s.j</i>
		WP IV	S.Y.	-	2X2	-			
2	Prof. H. K. Shete	MECHTR	B.TECH	3X1	4X2	-	2	17	
		WP IV	S.Y.	-	2X2	-			
3	Prof. V. V. Rangate					-	2	2	
4	Prof. S. D. Bagade	TOM I	S.Y.	3X1	2X2	-	2	17	<i>Bagade</i>
		CG	S.Y.	-	4X2	-			
5	Prof. P. S. Mohite	IFP	T.Y.	3X1	4X2	-	2	17	<i>P.S. Mohite</i>
		WP VI	T.Y.	-	1X2	-			
		CAD	S.Y.	-	1X2	-			
6	Prof. P. S. Gunavant	FTM	S.Y.	3X1	4X2	-	2	17	<i>P.S. Gunavant</i>
		T&M	S.Y.	-	2X2	-			
7	Prof. S. V. Janugade	MQC	T.Y.	3X1	4X2	-	2	17	<i>S.V. Janugade</i>
		MTP	S.Y.	4X1	-	-			
8	Dr. V. M. Jamadar	EPE	B.TECH	3X1	4X2	-	2	17	<i>V.M. Jamadar</i>
		WP VI	T.Y.	-	2X2	-			
9	Prof. V. D. Yadav	IAR	B.TECH	3X1	4X2	-	2	17	<i>V.D. Yadav</i>
		CAD	S.Y.	-	2X2	-			
10	Prof. A. D. Awasare	NV	B.TECH	3X1	4X2	-	2	17	
		CIM	T.Y.	-	2X2	-			
11	Prof. A. B. Shelar					-	2	2	<i>A.B. Shelar</i>
12	Prof. R. R. Chavan	AME	S.Y.	3X1	4X2	-	2	19	<i>R.R. Chavan</i>
		TOM I	S.Y.	-	2X2	-			
		T&M	S.Y.	-	1X2	-			
13	Prof. P.P. Bhise	MD II	T.Y.	3X1	4X2	-	2	18	<i>P.P. Bhise</i>
		CAD&M	T.Y.	3X1	-	-			
		CAD	S.Y.	-	1X2	-			
14	Prof. R.S. Yadav	ICE	T.Y.	3X1	4X2	-	-	19	<i>R.S. Yadav</i>
		CIM	T.Y.	-	2X2	-			
		T&M	S.Y.	-	1X2	-			
15	Prof. V. D. Apshinge	ANM	S.Y.	3X1	4X2	-	-	11	
16	Prof. M. M. Kumthekar	IMOR	T.Y.	3X1	-	1X1	-	4	

P.S. Mohite
Academic In-Charge

m.s.j
HOD



G. K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
 Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Program: **Electronics and Telecommunication**

D/COE-ACADM/LD-FRM-01

Academic Year **2022-2023** Sem.: **Even (II)**

LD-FRM-0-Rev.No:0 Date: 23/4/2018

Academic Work Load Distribution

Date: 18/01/2023

Academic Work Load Distribution

S N.	Name of faculty	Subject	DOJ	Class	LT	PR	TU T	Pro ject	TOT
1	Dr.S.R. Patil	Digital Signal Processing	17.01.2022	TY	04	02	--	02	08
2	Mr.P.J. Chorge	Microprocessor and Microcontrollers	01.07.2010	TY	04	-	-	02	12
		Programming Lab-II		SY	02	04			
3	Mr.R.A.Kharade	Video Engineering	01.07.2011	B.Tech	04	06	-	02	14
		Electronic Circuit Design-II		SY	-	02	-		
04	Mrs.M.P.Gujar	Elective II	01.07.2011	B.Tech	03		01	02	14
		Wireless Communication		B.Tech	02	06	-		
5	Mr.R.K.Gurav	Electronic Circuit Design-II	02.01.2014	SY	04	06	-	02	14
		Wireless Communication		B.Tech	02	-	-		
6	Mrs.S.N. Wangikar	Microwave Engg.	02.01.2014	B.Tech	04	02	-	02	14
		Programing Lab-II		SY	-	04	-		
		Mini Project		TY	-	02	-		
7	Mrs.P.I.Kinikar	Antenna Wave Propogation	02.01.2014	TY	04	06	-	02	14
		Mini Project		TY	-	02	-		
8	Mr.R.R.Dodke	Data Structure	01.07.2014	SY	03	-	01	02	12
		Open Elective II		TY	03	-	01		
		Mini Project		TY		02			

Prepared By:	Checked By:	Approved By:
HOD	Dean Academics	Principal



G. K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Program: **Electronics and Telecommunication**

DACOE/ACADM/LD-FRM-01

Academic Year **2022-2023** Sem.: **Even (II)**

LD-FRM-0-Rev.No:0 Date:23/4/2018

Academic Work Load Distribution

9	Mr.M.D.Patil	Control System Engineering		SY	03	-	01	02	14
		Digital Signal Processing		TY	-	04	-		
		Microwave Engg		B.Tech	-	04	-		
10	Mr.V.B. Suryawanshi	FEC	13.07.2017	SY	03	06	-	-	09
11	Ms.B.S.Kadam	Power Electronics	01.09.2021	TY	04	06	-	-	14
		Microprocessor and Microcontrollers		SY	-	04	-		
12	Mrs. S.A. Hangarkar	Digital Communication	01.08.2022	SY	03	08	-	02	13
13	Ms.J.S. Kavathekar	Linear integrated Circuits	01.09.2022	SY	04	08	-	-	14
		Microprocessor and Microcontrollers		TY	-	02	-		

Prepared By:

Checked By:

Approved By:

HOD

Dean Academics

Principal



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Program: **Basic Sciences & Humanities Dept.**

DACOE/ACADM/ED-FRM-01

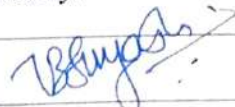


Academic Year 2022-23 Sem.: Even

ED-FRM-01-Rev No. 0 Date

Academic Work Load Distribution

Date: 17/04/2023

Sr.	Name of faculty	Subject	DOJ	Class	LT	PR	TUT	TOT
1	Prof.V.B.Suryawanshi 9975595850	Fundamentals of Electronics And Computer Programming	13/07/2017	F.Y.B.Tech	6	12	-	18
2	Prof.S.A.Lokare 9881710774	Engg Mathematics-II	01/02/2015	F.Y.B.Tech	6	-	6	12
3	Prof.K.U.Jadhav 7775030219	Basic Electrical Engineering	01/01/2014	F.Y.B.Tech	6	12	-	18
4	Prof.Dr.S.S.Nangare 9975030219	Professional Communication- II	01/08/2016	F.Y.B.Tech	2	12	-	14
5	Prof.M.L.kamble 9156664714	Professional Communication- II	06/01/2014	F.Y.B.Tech	2	12	-	14
6	Prof.S.B.Chavan 7709062249	Engg.Mathematics- II	01/07/2015	F.Y.B.Tech	6	-	6	12
7	Prof.P.D.Mandake. 8007663910	Engg.Chemistry	19/12/2016	F.Y.B.Tech	6	12	-	18
8	Prof.R.A.Katkar 7058643851	Engg.Physics	10/08/2009	F.Y.B.Tech	6	12	-	18
9	Prof.V.V.Rangate 9545105963	Basic Mechanical Engineering	01/07/2011	F.Y.B.Tech	6	12	-	18
10	Prof.A.B.Shelar 8793459321	Engg.Graphics	05/05/2021	F.Y.B.Tech	6	12	-	22
		Workshop Practice-II		F.Y.B.Tech	4	-	-	
11	Prof.V.J.Ghadage 7057584250	Basic Civil Engineering	05/09/2022	F.Y.B.Tech	6	12	-	18
12	Prof..H.K.Shete 9420696944	Workshop Practice-II	01/07/2013	F.Y.B.Tech	-	24	-	24
13	Prof.D.S.Shinde 9049461010	Applied Mechanics	01/12/2022	F.Y.B.Tech	6	12	-	18

Prepared By:	Checked By:	Approved By:
HOD 	Dean Academics 	Principal 



Program: **Basic Sciences & Humanities Dept.**

Academic Year 2022-23 Sem: **Odd**

Page No. **0** / Date

Academic Work Load Distribution

Date: 21/11/2022

Sr.	Name of Faculty	Subject	DOI	Class	LT	PR	TUT	TOT
1	Prof. S. K. Kulkarni 9881740774	Engg. Mechanics	01/07/2015	F.Y.B.Tech	3	-	3	06
2	Prof. K. J. Jadhav 7775076215	Basic Science - Chemistry	01/07/2014	F.Y.B.Tech	6	12	-	18
3	Prof. D. S. S. Sutar 9975030215	Physics (Practical)	1/8/2016	F.Y.B.Tech	1	12	-	13
4	Prof. M. L. Kulkarni 9156664714	Physics (Theory)	06/01/2013	F.Y.B.Tech	3	12	-	15
5	Prof. S. B. Chavhan 7709062249	Engg. Maths - I	01/07/2015	F.Y.B.Tech	9	-	9	18
6	Prof. P. D. Mandhale 8007663916	Engg. Chemistry	19/12/2016	F.Y.B.Tech	6	12	-	18
7	Prof. R. A. Kataria 7058643851	Engg. Physics	15/02/2021	F.Y.B.Tech	6	12	-	18
8	Prof. S. A. Badhe 9784261210	Basic Mechanical Engineering	12/04/2022	F.Y.B.Tech	6	12	-	20
		Workshop Practice-I		F.Y.B.Tech	2	-	-	
9	Prof. A. B. Shelar 8793459321	Engg. Graphics	05/05/2021	F.Y.B.Tech	6	12	-	20
		Workshop Practice-I		F.Y.B.Tech	2	-	-	
10	Prof. V. J. Ghadage 7057584250	Basic Civil Engineering	05/09/2022	F.Y.B.Tech	6	12	-	18
11	Prof. S. P. Kakade 7709654280	Fundamental of Electronics And Computer Programming	01/07/2008	F.Y.B.Tech	3	6	-	09
12	Prof. H. K. Shete 9420696944	Workshop Practice-I	01/07/2013	F.Y.B.Tech	-	24	-	24
13	Prof. P. I. Kinikar 9970042035	Fundamental of Electronics And Computer Programming	01/07/2015	F.Y.B.Tech	3	6	-	09
14	Prof. D. S. Shinde 9149461010	Applied Mechanics	01/12/2022	F.Y.B.Tech	6	12	-	18



Prepared By:	Checked By:	Approved By:
HOD	Dean Academics	Principal



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
 Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

**DEPARTMENT OF ELECTRONICS AND
 TELECOMMUNICATION ENGINEERING**

DACOE/ACADMTI-FRM-02

TT-FRM-02-Rev. No. 0 Date:

CLASS TIME TABLE

Academic Year: 2022-23

Class: SY

Coordinator: Prof. S.A. Hangarkar

Semester: II

Classroom No: 55

W. e. f.: 06-02-2023

TIME	MON	TUE	WED	THU	FRI
09.00-10.00		EVS	EVS	CSE (T)	
10.00-11.00	S1: DC(38) S2:ECD II(33)	ECD II	S1: ECD II(33) S2:PL II(30)	ECD II	LIC
11.00-12.00	S3:LIC(32) S4: PL II(30)	LIC	S3: DC(38) S4: LIC(32)	LIC	CSE
BREAK					
12.45-01.45	DS	TRAINING	PL II	S1: PL II(30) S2:LIC(32)	S1: LIC(32) S2: DC(38)
01.45-02.45	DC		CSE	S3: ECD II(33) S4: DC(38)	S3: PL II(30) S4: ECDII(33)
BREAK					
03.00-04.00	CSE	DC	ECD II	ECD II	DS
04.00-05.00	DS	LIC	DC	PL II	DS(T)

Subjects	Abbr.	Teacher	Abbr.
Electronic Circuit Design II	ECD II	Prof.R.K.Gurav	RKG
Control System Engineering	CSE	Prof.M.D.Patil	MDP
Linear integrated Circuits	LIC	Prof.J.S. Kavathekar	JSK
Digital Communication	DC	Prof. S.A. Hangarkar	SAH
Data Structures	DS	Prof.R.R.Dodke	RRD
Programing Lab-II	PL II	Prof.P.J.Chorge	PJC
Environmental Studies	EVS	Prof.P.B.Pisal	PBS

Batch/Sub	ECDII	LIC	DC	PLII
S1 Prof	RKG	JSK	SAH	SNW
S2 Prof	RKG	JSK	SAH	SNW
S3 Prof	RKG	JSK	SAH	PJC
S4 Prof	RAK	JSK	SAH	PJC

Prof. J.S. Kavathekar
 (Time Table In charge)

Prof. S.R. Patil
 (HOD)

Dr. A.M. MULLA
 (Principal)

(HOD)

Dr. A.M. MULLA
 (Principal)



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**DEPARTMENT OF ELECTRONICS AND
 TELECOMMUNICATION ENGINEERING**

DACOE/ACADM/TT-FRM-02

TT-FRM-02- Rev. No: 0 Date:

CLASS TIME TABLE

Academic Year: 2022-23

Class: TY

Coordinator: Prof.B.S.Kadam

Semester: II

Classroom No: 54

W. e. f.: 06-02-2023

TIME	MON	TUE	WED	THU	FRI
9.00-10.00		DSP	OE II(T)		
10.00-11.00	AWP	MPMC	PE	MPMC	DSP
11.00-12.00	OE II	AWP	DSP	PE	MPMC
BREAK					
12.45-01.45	T1:PE(31) T2: DSP(29)	T1:MPMC(30) T2:MP(35)	TRAINING	OE II	T1:DSP(29)
01.45-02.45	T3:MPMC(30)	T3:AWP(37)		AWP	T2: PE(31) T3: MP(35)
BREAK					
03.00-04.00	PE	PE	AWP	T1:MP(35) T2:AWP(37)	T1:AWP(37) T2: MPMC(30)
04.00-05.00	DSP	MPMC	OE II	T3:PE(31)	T3:DSP(29)

Subjects	Abbr.	Teacher	Abbr.
Digital Signal Processing	DSP	Dr.S.R.Patil	SRP
Microprocessor and Microcontrollers	MPMC	Prof.P.J.Chorge	PJC
Power Electronics	PE	Prof.B.S.Kadam	BSK
Antenna and Wave Propagation	AWP	Prof.P.I.Kinikar	PIK
Open Elective II	OEII	Prof.R.R.Dodke	RRD

Batch/Sub	DSP	AWP	MPMC	PE	MP
T1 Prof	SRP	PIK	BSK	BSK	RRD
T2 Prof	MDP	PIK	BSK	BSK	SNW
T3 Prof	MDP	PIK	JSK	BSK	PIK

Prof. J. S. Kavathekar
 (Time Table In charge)

Prof. S. R. Patil
 (HOD)

Dr. A. M. MULLA
 (Principal)



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

**DEPARTMENT OF ELECTRONICS AND
TELECOMMUNICATION ENGINEERING**

DACOL/AC/ADMTI-FRM-02

TFERM-02- Rev. No. 0 Date:

CLASS TIME TABLE

Academic Year: 2022-23

Class: Final Year BTech

Coordinator: Mrs.S.N.Wangikar.

Semester: II

Classroom No: 58

W. e. f.: 23/01/2023

TIME	MON	TUE	WED	THU	FRI
10.00-11.00	VE	EL II	EL II	B1: ME(38) B2: VE(34) B3: WC(36)	PROJECT
11.00-12.00	ME	ME	VE		
BREAK					
12.45-01.45	VE	WC(RKG)	WC(RKG)	EL II	PROJECT
01.45-02.45	ME	VE	ME	WC(MPG)	
BREAK					
03.00-04.00	PROJECT	WC(MPG)	B1: WC(36) B2: ME(38) B3: VE(34)	B1: VE(34) B2: WC(36) B3: ME(38)	PROJECT
04.00-05.00		ELII(T)			

Subjects	Abbr.	Teacher	Abbr.
Microwave Engineering	ME	Prof. S.N.Wangikar	SNW
Wireless Communication	WC	Prof.R.K.Gurav	RKG
Video Engineering	VE	Prof.R.A.Kharade	RAK
Elective II	ELII	Prof.M.P.Gujar	MPG

Batch/Sub	ME	WC	VE
B1	Prof MDP	MPG	RAK
B2	Prof MDP	MPG	RAK
B3	Prof SNW	MPG	RAK

Prof. S. Kavathekar
(Time Table In charge)

Prof. S. R. Patil
(HOD)

Dr. A. M. MULLA
(Principal)



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
Vidyanagar 1st Banawade, Tal. Karad-415124, Dist. Satara, Maharashtra INDIA

**DEPARTMENT OF BASIC SCIENCES AND
HUMANITIES**

Page No. 6 ADMITT-FRM-02

Page No. / Rev No. / Date

CLASS TIME TABLE

Academic Year: 2022-23

Class: F.Y.B Tech Div. A

Coordinator: Prof.V.J.Ghadage

Semester: 1st


Classroom No: 70

W. e. f.: 21/11/2022


TIME	MON	TUE	WED	THU	FRI
10.00-11.00	EP	BEE	EG	BCE	BCE
11.00-12.00	EG	EM-I	BEE	EM-I	EG
12.00-12.45	LUNCH BREAK				
12.45-01.45	A1-PC-I-72 A2-WS-I-WS A3-BEE-66	EP	EP	A1-BCE-93 A2-EG-69 A3-WS	BEE
01.45-02.45		BCE	EM-I		EM-I-(TUT)
02.45-3.00	BREAK				
03.00-04.00	A1-BEE-66 A2-EP-74 A3-BCE-93	PC-I	A1-EP-74 A2-PC-I-CCF A3-EG-69	A1-EG-69 A2-BEE-66 A3-PC-I-72	A1-WS-WS A2-BCE-93 A3-EP-74
04.00-05.00		WS-I			


Subjects	Abr	Teacher	Abr	Batches	Mentor
Engg. Mathematics -I	EM-I	Prof.S.B.Chavan	SBC	A1	Prof.V.J.Ghadage
Engg. Physics	EP	Prof.R.A.Katkar	RAK	A2	Prof.S.B.Chavan
Basic Electrical Engg.	BEE	Prof.K.U.Jadhav	KUJ	A3	Prof.Dr.S.S.Nangare
Basic Civil Engineering	BCE	Prof.V.J.Ghadage	VJG		
Engg. Graphics	EG	Prof.A.B.Shelar	ABS		
Workshop Practice-I	WS-I	Prof.A.B.Shelar	ABS		
Professional Communication-I	PC-I	Prof. M.L.Kamble	MLK		

Batch/Sub	EM-I	EP	BEE	BCE	EG	PC-I	WS-I
A1 Prof	SBC	RAK	KUJ	VJG	ABS	MLK	HKS
A2 Prof	SBC	RAK	KUJ	VJG	ABS	MLK	HKS
A3 Prof	SBC	RAK	KUJ	VJG	ABS	SSN	HKS


Prof. S.B. Chavan
(Time Table In charge)




Prof. V.B. Sawanshi
(HOD)


Dr. A.M. MULLA
(Principal)



Dr. Ashok Gujar Technical Institute
Dr. Dattatraya Aher College of Engineering, Kurla
Advantage 1 St. Bandra West, Col. Kan. G. S. T. E. D. G. Nagar, Maharashtra INDIA

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

Date: 10/11/2022
Page No: 01/06

Academic Year: 2022-2023
Class: E.Y.B. Tech/Dx-B
Coordinator: Prof. R. A. Katkar

Semester: 1st
Classroom No: 69
W. e. T: 21/11/2022

TIME	MON	TUE	WED	THU	FRI
10.00-11.00	BCI	PC-I	BCI	WS-I	BCI
11.00-12.00	BCI	EG	IP	BCI	EMI
12.00-12.45	LUNCH BREAK				
12.45-01.45	IP	EG	BCI-EG-69 B2-WS-I-WS B3-PC-I-77	IP	BCI-IP-74 B2-EG-69 B3-BCI-93
01.45-02.45	BCI	EMI		EMI	
02.45-3.00	BREAK				
03.00-04.00	EG	B1-BCI-66 B2-PC-I-77 B3-IP-74	B1-WS-WS B2-BCI-93 B3-BCI-66	B1-BCI-94 B2-IP-74 B3-WS-WS	B1-PC-I-CCF B2-BCI-66 B3-EG-69
04.00-05.00	TMD (HUT)				

Subjects	Abr	Teacher	Abr	Batches	Mentor
Engg. Mathematics - I	EMI	Prof. S. B. Chavan	SB	B1	Prof. R. A. Katkar
Engg. Physics	IP	Prof. R. A. Katkar	RAK	B2	Prof. A. B. Shelar
Basic Electrical Engg.	BEI	Prof. K. U. Jadhav	KUJ	B3	Prof. K. U. Jadhav
Basic Civil Engineering	BCI	Prof. V. G. Gadage	VG		
Engg. Graphics	EG	Prof. A. B. Shelar	ABS		
Workshop Practice-I	WS-I	Prof. S. A. Budhe	SAB		
Professional Communication-I	PC-I	Prof. M. I. Kamble	MIE		

Batch/Sub	EM-I	IP	BEI	BCI	EG	PC-I	WS-I
B1 Prof	SB	RAK	KUJ	VG	ABS	SSN	HKS
B2 Prof	SB	RAK	KUJ	VG	ABS	SSN	HKS
B2 Prof	SB	RAK	KUJ	VG	ABS	SSN	HKS

Prof. S. B. Chavan
(Time Table In charge)



Prof. V. B. Subramaniam
(HOD)

Dr. A. M. MULLA
(Principal)



G.K. Gilar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
Vidyanager 1 St. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

DACOL/ACAD/MTT-FRM-02

TI/FRM-02-Rev.No: 0 Date:

CLASS TIME TABLE

Academic Year: 2022-23

Class: F.Y.B.Tech Div: C

Coordinator: Prof.P.D.Mandake

Semester: 1st

Classroom No: 68

W. e. f.:21/11/2022

TIME	MON	TUE	WED	THU	FRI
10.00-11.00	EM-I	APM	EC	APM	EC
11.00-12.00	BME	BME	EM-I	BME	FEC
12.00-12.45	LUNCH BREAK				
12.45-01.45	C1-FEC-30 C2- BME-81 C3-WS-I	C1-EC-75 C2- WS-I C3-PC-I-72	WS-I	EM-I(TUT)	C1-WS-I C2-PC-I-72 C3-APM-94
01.45-02.45			APM		
02.45-3.00	BREAK				
03.00-04.00	C1-BME-81 C2- APM-94 C3-FEC-30	C1- APM-94 C2-FEC-30 C3- EC-75	EC	EM-I	C1-PC-I-72 C2-EC-75 C3-BME-81
04.00-05.00			FEC		

Subjects	Abr	Teacher	Abr	Batches	Mentor
Engg.Mathematics -I	EM-I	Prof.S.A.Lokare	SAL	C1	Prof.P.D.mandake
Engg.Chemistry	EC	Prof.P.D.Mandake	PDM	C2	Prof.S.A.Budhe
Fundamentals of Electronics and Computer Programming	FEC	Prof.P.I.Kinikar	PIK	C3	Prof.A.A.Panaskar
Basic Mechanical Engineering	BME	Prof.S.A.Budhe	SAB		
Applied Mechanics	APM	Prof. D.S.Shinde	DSS		
Workshop Practice-I	WS-I	Prof.S.A.Budhe	SAB		
Professional Communication-I	PC-I	Prof. M.L.Kamble	MLK		

Batch/Sub	EM-I	EC	FEC	BME	APM	WS-I	PC-I
C1	Prof SAL	PDM	PIK	SAB	DSS	HKS	MLK
C2	Prof SAL	PDM	PIK	SAB	DSS	HKS	MLK
C3	Prof SAL	PDM	PIK	SAB	DSS	HKS	MLK

Prof.S.B.Chavan
(Time Table In charge)



Prof.V.B.Suryawanshi
(HOD)

Dr. A.M.MULLA
(Principal)



Dr. Ashok Gojar Technical Institute
Dr. Dandekar Aher College of Engineering, Karad,
Ashokrao Chavan Marg, Karad-415103, Dist. Solapur, Maharashtra INDIA

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

Date: 21/11/2022

Page No: 02

CLASS TIME TABLE

Academic Year: 2022-23

Class: F.Y.B.Tech(Di-1)

Coordinator: Prof.M.L.Kamble

Semester: 1st

Classroom No: 67

W. e. f.: 21/11/2022

TIME	MON	TUE	WED	THU	FRI
10.00-11.00	PC-I	FEC	BME	EM-I	EM-I
11.00-12.00	FEC	EC	EC	EC	APM
12.00-12.45	LUNCH BREAK				
12.45-01.45	WS-I	APM	EM-I(TUE)	D1-PC-I D2-EC-75 D3-BME-81	D1-FEC-39 D2-BME-81 D3-WS-I
01.45-02.45	APM	BME	FEC		
02.45-3.00	BREAK				
03.00-04.00	D1-EC-75 D2-WS-I	EM-I	D1-BME-81 D2-PC-I-72	D1-APM-94 D2-FEC-39	D1-WS-I D2-APM-94
04.00-05.00	D3-PC-I-72	BME	D3-APM-94	D3-EC-75	D3-FEC-39

Subjects	Abr	Teacher	Abr	Batches	Mentor
Engg. Mathematics -I	EM-I	Prof.S.B.Chavan	SBC	D1	Prof.M.L.Kamble
Engg. Chemistry	EC	Prof.P.D.Mandake	PDM	D2	Prof.V.D.Apshinge
Fundamentals of Electronics and Computer Programming	FEC	Prof. S.P.Kakade	SPK	D3	Prof.S.A.Lokare
Basic Mechanical Engineering	BME	Prof.S.A.Budhe	SAB		
Applied Mechanics	APM	Prof. D.S.Swade	DSS		
Workshop Practice-I	WS-I	Prof.A.B.Shelar	ABS		
Professional Communication-I	PC-I	Dr.S.S.Nangare	SSN		

Batch/Sub	EM-I	EC	FEC	BME	APM	WS-I	PC-I
D1	Prof SBC	PDM	SPK	SAB	DSS	HKS	MLK
D2	Prof SBC	PDM	SPK	SAB	DSS	HKS	SSN
D3	Prof SBC	PDM	SPK	SAB	DSS	HKS	SSN

Prof.S.B.Chavan
(Time Table In charge)



Prof.V.B.Suryawanshi
(HOD)

Dr. A.M.MULLA
(Principal)



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

DACOE/ACADM/TT-FRM-
TT/FRM-04- Rev. No: 0
Date:

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

FACULTY TIME TABLE

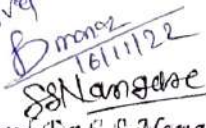
Name of the Faculty: PROF. P.D. Mandake
Academic Year: 2022-2023
Department : BS&H

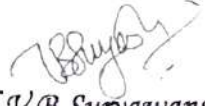
Semester: 1st
W.e.f.:21/11/2022

TIME	MON	TUE	WED	THU	FRI
09.00-10.00					
10.00-11.00			EC-C		EC-C
11.00-12.00		EC-D	EC-D	EC-D	
12.00-12.45	LUNCH BREAK				
12.45-01.45		C1-EC-75		D2-EC-75	
01.45-02.45					
02.45-3.00	BREAK				
03.00-04.00	D1-EC-75	C3-EC-75	EC-C	D3-EC-75	C2-EC-75
04.00-05.00					

Work Load		Additional Responsibilities	
Theory	: 06Hrs	Coordinator	Class Teacher, Unit test Coordinator
Practical	: 12 Hrs	Lab In-Charge	Engg. Chemistry
Seminar		Subject Coordinator	Engg. Chemistry
Project		Teacher Mentor	
Library			
Total	: 18 Hrs		


Prof. S.B. Chavare
(Coordinator)

Received

16/11/22
Prof. Dr. S.S. Nangare
(Academic In charge)


Prof. V.B. Suryawanshi
(HOD-BSH)



Dr. Ashok Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.

Ext. Banawar, Karad 415124, Dist. Satara, Maharashtra INDIA

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

DACOE/ACAD/MTT-FRM-

TT-FRM-04-Rev.No. 0

Date

FACULTY TIME TABLE

Name of the Faculty: PROF.A.B.Shelar

Academic Year: 2022-2023

Department : BS&H

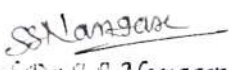
Semester: 1st

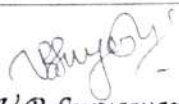
W.e.f.:21/11/2022

TIME	MON	TUE	WED	THU	FRI
09.00-10.00					
10.00-11.00			EG-A		
11.00-12.00	EG-A	EG-B			EG-A
12.00-12.45	LUNCH BREAK				
12.45-01.45	WS-I-B	EG-B	B1-EG-68	A2-EG-68	B2-EG-68
01.45-02.45					
02.45-3.00	BREAK				
03.00-04.00	EG-B		A3-EG-68	A1-EG-68	B3-EG-68
04.00-05.00		WS-I-A			

Work Load		Additional Responsibilities	
Theory	: 08Hrs	Coordinator	
Practical	: 12 Hrs	Lab In-Charge	
Seminar		Subject Coordinator	Engg.Graphics (Div-A & B),Workshop Practice-I
Project		Teacher Mentor	
Library		Dept. Subcommittee 1	
Total	: 20 Hrs	College Subcommittee 2	


Prof. S.B. Chavhan
(Coordinator)


Prof. Dr. S.S. Nangare
(Academic In charge)


Prof. V.B. Suryawanshi
(HOD-BSH)





Dr. Daulatrao Mher Memorial Charitable Trust's
Dr. Ashok Gajjar Technical Institute's,
Dr. Daulatrao Mher College of Engineering, Karad.
V. K. Road, EXT. Punawadi, Karad-415124, Dist. Satara, Maharashtra INDIA

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

DACOL/ACAD/MTI-FRM
TI-FRM/04 Rev No. 0
Date

FACULTY TIME TABLE

Name of the Faculty: PROF. S.B.Chavan

Academic Year: 2022-2023

Department : BS&H

Semester: 1st

W.e.f.:21/11/2022

TIME	MON	TUE	WED	THU	FRI
10.00-11.00				EM-I-D	EM-I-D
11.00-12.00		EM-I-A		EM-I-A	EM-I-B
12.00-12.45	LUNCH BREAK				
12.45-01.45			EM-I-D(TUT)		
01.45-02.45		EM-I-B	EM-I-A	EM-I-B	EM-I-(TUT)-A
02.45-3.00	BREAK				
03.00-04.00		EM-I-D			
04.00-05.00	EM-I-(TUT)-B				

Work Load		Additional Responsibilities	
Theory	: 09Hrs	Coordinator	Time Table, Bridge Course,
Practical	: 09 Hrs	Lab In-Charge	
Seminar		Subject Coordinator	Engg.Mathematics-I Div.A, B & C
Project		Teacher Mentor	
Library		College Subcommittee 1	Admission,
Total	18		

Prof.S.B.Chavan
(Coordinator)

21/11/22

Prof.Dr.S.S.Nangare
(Academic In charge)

Prof.V.B.Suryawanshi
(HOD-BSH)



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aber College of Engineering, Karad.
Vidyanager Ext. Banawadi Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Department of Basic Sciences And
Humanities

DACCE/ACADM/TT-FRM-03

TT/FRM-03- Rev. No: 0 Date

LAB TIME TABLE

Name of the Lab in charge: Prof.H.K.Shete

Academic Year: 2022 - 23

Semester: I

Lab. No. : Workshop

W.e.f.: 21/11/2022

Time	MON	TUE	WED	THU	FRI
09 to 10					
10 to 11					
11 to 12					
12.00 to 12.45	LUNCH BREAK				
12.45 to 01.45	WS[A2&C3]	WS[C2]	WS[B2]	WS[A3]	WS[C1&D3]
01.45 to 02.45	HKS	HKS	HKS	HKS	HKS
02.45 to 03.00	SHORT BREAK				
03.00 to 04.00	WS[D2]		WS[B1]	WS[B3]	WS[A1&D1]
04.00 to 05.00	HKS		HKS	HKS	HKS

Prof. S. B. Chavan
(Coordinator)

Prof. Dr. S. S. Nanyare
(Academic In charge)

Prof. V. B. Suryawanshi
(HoD- BS&H)

Received
11/11/2022



Dr. Ashok Gajjar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad.
V. D. Sawade Exd. Banawadi, Ed. Karad-415124, Dist. Satara, Maharashtra INDIA

Department of Basic Sciences And
Humanities

Page No. _____
Date _____

LAB TIME TABLE

Name of the Lab In charge: Prof.P.D.Mandake

Academic Year: 2022 - 23

Semester: I

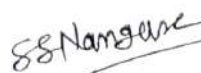
Lab. No. : 75

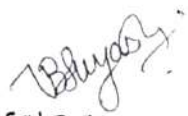
W.e.f.: 21/11/2022

Time	MON	TUE	WED	THU	FRI
09 to 10					
10 to 11					
11 to 12					
12.00 to 12.45	LUNCH BREAK				
12.45 to 01.45		EC[C1]		EC [D2]	
01.45 to 02.45				PDM	
02.45 to 03.00	SHORT BREAK				
03.00 to 04.00	EC [D1]	EC [C3]		EC [D3]	EC [C2]
04.00 to 05.00	PDM	PDM		PDM	PDM

Received
Bmanur
16/11/22


Prof. S. B. Chavan
(Coordinator)


Prof. Dr. S. S. Nangare
(Academic In charge)


Prof. V. B. Suryawanshi
(HoD- BS&H)



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
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**Department of Basic Sciences And
Humanities**

DACOE/ACADM/TT-FRM-03

TT/FM-03- Rev No 0 Date

LAB TIME TABLE

Name of the Lab In charge: Prof.M.L.kamble

Academic Year: 2022 - 23


Semester: I

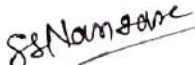
Lab.No.: 72


W.e.f.: 21/11/2022

Time	MON	TUE	WED	THU	FRI
09 to 10					
10 to 11					
11 to 12					
12.00 to 12.45	LUNCH BREAK				
12.45 to 01.45	PC-I[A1]	PC-I[C3]	PC-I[B3] SSN	PC-I[D1]	PC-I[C2]
01.45 to 02.45	MLK	MLK		MLK	MLK
02.45 to 03.00	SHORT BREAK				
03.00 to 04.00	PC-I[D3]	PC-I[B2]	PC-I[D2]	PC-I[A3]	PC-I[C1]
04.00 to 05.00	SSN	SSN	SSN	SSN	MLK

Received
16/11/22


Prof. S. B. Chavan
(Coordinator)


Prof. Dr. S. S. Nanyare
(Academic In charge)


Prof. V. B. Suryawanshi
(HoD- BSELH)



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.

Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Course Code & Name: BSC-C-201 Engg. Chemistry

DCCOL-ACAD-IP-FRM10-ME2401

Program: F.Y.B.Tech

Semester: I/II

IP-FRM10-Rev.No.0-Date

Lesson Plan

UNIT I: Water

Syllabus:

Introduction, Impurities in natural water, water quality parameters, total solid, acidity alkalinity, Chloride content and dissolve oxygen, Hardness of water, Units of Hardness, ill effect of hard water in steam generation boiler, numerical on hardness and treatment on hard water

Objective:

To understand the basic concept in chemistry
To study water quality parameters.

Lec. No.	Lesson Title	Topics to be covered	Aim	Key Concepts / Terms	Topic Learning Outcomes
1	Introduction of basic concept in chemistry	Introduction of basic terms in chemistry	To introduce basic concept	Basic Concept	Student able to understand the basic concept
2	Water quality parameters	Acidity alkalinity, chloride content, total solid	To understand water quality parameters	Parameters	Student able to understand water quality parameters.
3	Dissolve oxygen, chloride content	Introduction causes significance of the terms	To understand causes and significance	significance	Student able to understand causes and significance
5	Hardness of water	Types of hardness (temporary and permanent)	To understand types of hardness	Types of hardness	Student able to understand types of hardness
6	Units of hardness Numerical on hardness	ppm, Clarks degree, French degree.	To understand units and solve the numerical	Units, Numerical	Student able to understand units and solve numerical.
7	Methods of water softening	Ion exchange and reverse osmosis process	To understand the methods of water softening	Methods	Student able to understand the methods of water softening

Assessment Tool: Ask questions and discuss answers, Assignments, CAS & unit Test

Teaching Methods: Lecture, Laboratory Vis


Course Coordinator


HOD



Course Code & Name: BSC 109 Engg. Chemistry

DACOE -ACAD-LP - FRM 10 - ME2401

Program: F.Y.B.Tech

Semester: I/II

LP- FRM 10 - Rev. No: 0 Date:

Lesson Plan

UNIT II: Instrumental Methods Of Chemical Analysis.

Syllabus: Introduction, advantages and disadvantages of instrumental analysis, pH metry, instrumentation of pH metry, glass electrode. Spectrometry laws of spectrometry (lamberts Beers law) Chromatography, types of chromatography, gas chromatography.

Objective: To understand the instrumentation methods.
To knowledge of handling the instruments.

Lec. No.	Lesson Title	Topics to be covered	Aim	Key Concepts / Terms	Topic Learning Outcomes
1	Introduction, instrumental analysis.	Advantages and disadvantages of instrumental analysis	To get basic information about the instrumental analysis.	Instrumental analysis	Students able to understand information about the instrumental
2	pH metry	Instrumentation working of pH meter.	To get the knowledge of working of instrument	Instrument working	Students able to understand actual working of instrument
3	Glass electrode	Construction and working of glass electrode	To get the knowledge of working of glass electrode.	Glass electrode	Students able to understand actual working of glass electrode
4	spectrometry	Laws of spectrometry((lamberts Beers law)	To understand the laws of spectrometry and impliment on it.	. spectrometry laws,	Students able to implement on the laws of spectrometry
5	spectrophotometer	Single beam and double beam spectrophotometer	To get the knowledge of working of spectrophotometer	Working of photometer	Students able to understand the single beam and double beam spectra.
6	Chromatography	Types of Chromatography(solid liquid and gas)	To understand the types of Chromatography	Types	Students able to understand types of Chromatograph
7	Gas liquid Chromatography	GC Analysis working, significance, uses.	To understand the working and its uses in chemical	Significance and uses of GC	Students able to Know the uses of GC in chemical

Assessment Tool: Ask questions and discuss answers, Assignments, CAS & unit Test

J. Manoj
Course Co-ordinator

Page 3 of 13
J. Manoj
HOD



G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.

Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Course Code & Name: BSC-C-201 Engg.Chemistry

DACTOR ACAD/EP - FPM 10 ME/2001

Program: F.Y.B.Tech

Semester: I/II

EP - FPM 10 - Rev No. 0 Date

Lesson Plan

UNIT III-Advanced Material

Syllabus:

Advanced Material

Introduction, plastics, thermo softening and thermosetting plastics, industrially important plastics like phenol formaldehyde, urea formaldehyde and epoxy resins, Conducting polymers and Bio polymers(Introduction, examples and applications.

Objective:

To understand the importance of composites and advanced material

Lesson No.	Lesson Title	Topics to be covered	Aim	Key Concepts / Terms	Topic Learning Outcomes
1	polymer Introduction,plastic material	Types of plastic material,(thermo softening and thermosetting plastic)	To understand the plastic material its types	Types of plastic material,	student able to understand polymer and its
2	Phenol formaldehyde	Chemical synthesis,uses and properties of phenol formaldehyde	To understand synthesis,uses and properties of phenol formaldehyde	Chemical synthesis	Students able to understand properties of phen formaldehyde
3	Urea formaldehyde and Epoxy Resin.	Chemical synthesis,uses and properties of Urea formaldehyde and Epoxy Resin.	To understand properties of Urea formaldehyde and Epoxy Resin.	Chemical synthesis	Students able to understand properties of Urea formaldehyde and Epoxy Resin
5	Composite material	Types of Composite material	To understand the types of Composite material	Types	Students able to understand the various types of Composite materi
6	Advantages of composite material,FRP and GRP	Composition properties and uses of composite material,FRP and GRP	To Know the uses of composite material,FRP and GRP	Specification and its application	Students able to understand Composition properties and us of composite

Assessment Tool: Ask questions and discuss answers, Assignments, CAS & unit Test

Teaching Methods: Lecture, Laboratory Visit.


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Course Code & Name: **BSC 109 Engg. Chemistry**

IMC/OE-ACAD-LP - FRM 10 MB2401

Program: E.Y.B. Tech

Semester: I/II

LP- FRM 10 - Rev. No. 0 Date

Lesson Plan

UNIT IV: Fuel


Syllabus:

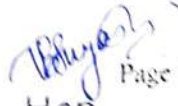
Introduction, classification, calorific value, definition, units, characteristics of good fuel, comparison between solid liquid gaseous fuels. Bomb calorimeter, Boys calorimeter, Numerical. on bomb and Boys calorimeter. Fuel cell, introduction, advantages, limitation and application.

Objective:

To study fuels and its importance.

Le c. N o.	Lesson Title	Topics to be covered	Aim	Key Concepts / Terms	Topic Learning Outcomes
1	Introduction, classification of fuels	On the basis of physical nature (solid liquid and gas)	To get the basic information and classification about	classificati on	Students able to understand the classification
2	Units of calorific value.	Units of calorific value (calorie, kcal, joules, kilojoules)	To understand know the units of calorific value	units	Students able to know about the units of calorific value
3		Components of Computer System	To understand Components of Computer System	Computer System component s	Students able to understand Components of Computer System
4	a) Applications of Computers	Applications of Computers	To understand Applications of Computers	Application s of Computers	Students able to understand Applications of Computers
5	B) Computer Architecture: Details of components of a digital computer system - CPU	Architecture of Computers	To understand Architecture of Computers	Architectur e of Computers	Students able to understand Architecture of Computers
6	Communication among various units	Communication among various units	To understand Communication among various units	Communic ation among various	Students able to understand Communication among various


Course Co-ordinator


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Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Course Code & Name: BSC-C-201 Engg. Chemistry

DACOE -ACAD-LP - FRM 10 ME2401

Program: F.Y.B.Tech Semester: I/II

LP- FRM 10 - Rev. No: 0 Date:

Lesson Plan

UNITY: Introduction

Syllabus:

Corrosion

Introduction, causes, classification, atmospheric corrosion (oxidation corrosion), electrochemical corrosion (hydrogen evolution and oxygen absorption mechanism), factors affecting rate of corrosion. Prevention of corrosion by proper design and material selection, cathodic protection, Protective coatings hot dipping (galvanizing and tinning,), electroplating.

Objective:

To study the mechanism of corrosion and the process of prevention of corrosion.

Lec .No	Lesson Title	Topics to be covered	Aim	Key Concepts / Terms	Topic Learning Outcomes
1	Corrosion- Introduction, causes	Atmospheric corrosion or dry corrosion	To know the causes of corrosion	Atmospheric corrosion	student able to understand causes of corrosion
2	electrochemical corrosion (hydrogen evolution and	Hydrogen evolution and oxygen absorption mechanism	To study the mechanism of hydrogen evolution	mechanism	Students able to understand hydrogen evolution
3	. Prevention of corrosion by proper design and material selection	proper design and material selection	To Know the proper design and material selection	Design for controlling corrosion	Students able to understand material selection
5	protection method.	Cathodic and anodic protection method.	To Know protection method.	Cathodic and anodic protection method.	Students able to understand Cathodic and anodic protection method
6	Electroplating Process For Prevention of corrosion	Electroplating Process For Prevention of corrosion	To know Electroplating Process For Prevention of corrosion	Electroplating	Students able to understand Electroplating Process
7	factors affecting rate of corrosion.	Air, water, soil, PH temperature	To study the factors affecting	factors	Students able to understand factors affecting rate of corrosion.

Assessment Tool: Ask questions and discuss answers, Assignments, CAS & unit Test

Teaching Methods: Lecture, Laboratory Vis

Course Coordinator
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Vidyanagar Ext. Banawadi, Tal. Karad-415124, Dist. Satara, Maharashtra INDIA

Course Code & Name: BSC-C-201 Engg. Chemistry

DACOE-ACAD-LP-ERM10-ME2401

Program: F.Y.B.Tech

Semester: I/II

LP-ERM10-Rev.No. 0 Date

Lesson Plan

UNITVI: Metallic Material and Green Chemistry

Syllabus:

Introduction.

Objective:

To study the mechanism of corrosion and the process of prevention of corrosion.

Lec. No.	Lesson Title	Topics to be covered	Aim	Key Concepts / Terms	Topic Learning Outcomes
1	Corrosion- Introduction, causes	Atmospheric corrosion or dry corrosion	To know the causes of corrosion	Atmospheric corrosion	student able to understand causes of corrosion
2	electrochemical corrosion (hydrogen evolution and oxygen	Hydrogen evolution and oxygen absorption mechanism	To study the mechanism of hydrogen evolution	mechanism	Students able to understand hydrogen evolution
3	. Prevention of corrosion by proper design and material selection	proper design and material selection	To Know the proper design and material selection	Design for controlling corrosion	Students able to understand material selection
5	protection method.	Cathodic and anodic protection method.	To Know protection method.	Cathodic and anodic protection method.	Students able to understand Cathodic and anodic protection method
6	Electroplating Process For Prevention of corrosion	Electroplating Process For Prevention of corrosion	To know Electroplating Process For Prevention of corrosion	Electroplating	Students able to understand Electroplating Process
7	factors affecting rate of corrosion.	Air, water, soil, PH temperature	To study the factors affecting	factors	Students able to understand factors affecting rate of corrosion.

Assessment Tool: Ask questions and discuss answers, Assignments, CAS & unit Test

Teaching Methods: Lecture, Laboratory Vis

Course Coordinator

HOD

LECTURES CONDUCTED

Class : F.Y. B. Tech Div.: C Semester : I
 Subject : Engg. chemistry Lectures Per Week : 3

Lecture No.	Topic / Content Covered	Planned Date	Conducted Date	Teaching Aid Used
1.	I. Water			
	Introduction Impurities in natural water.	23/11/22	23/11/22	CB
2.	Water quality parameters total solid Acidity of water.	23/11/22	23/11/22	CB
3.	Hardness of water (causes and types units of hardness.	25/11/22	25/11/22	
4.	All effects of hardwater when used in boilers.	30/11/22	28/11/22	C.B.
5.	sludge and scale formation. Causes & significance	30/11/22	30/11/22	
6.	Numericals on Hardness of Water	2/12/22	30/11/22	
7.	Treatment on hard water Ion exchange / R.O	7/12/22	2/12/22	PPT
8.	2. Instrumental methods of chemical Analysis - Introduction	7/12/22	7/12/22	

B. Mandya
FACULTY MEMBER

J. B. Suresh
H.O.D.

LECTURES CONDUCTED

Class : _____ Div.: _____ Semester : _____
 Subject : _____ Lectures Per Week : _____

Lecture No.	Topic / Content Covered	Planned Date	Conducted Date	Teaching Aid Used
9.	Spectrometry - Laws Beers & Lambert Law & its derivation	9/12/22	7/12/22	
10.	Construction working of single beam spectrophotometer.	13/12/22	9/12/22	C.B
11.	Chromatography, GLC Construction working	13/12/22	14/12/22	
12.	Basic principles and instrumentation	16/12/22	16/12/22	
13.	Composite material - Introduction	21/12/22	21/12/22	
14.	Thermosetting and thermosoftening plastic	21/12/22	23/12/22	
15.	Polymer - Condensation and Addition polymerization, examples	28/12/22	9/1/23	
16.	Synthesis prop. and uses of phenol formaldehyde / Bakelite	28/12/22	11/1/23	
17.	Synthesis prop and uses of Epoxy Resin, Urea formaldehyde	28/12/22	18/1/23	


FACULTY MEMBER


H.O.D.

LECTURES CONDUCTED

Class : _____ Div.: _____ Semester : _____

Subject : _____ Lectures Per Week : _____

Lecture No.	Topic / Content Covered	Planned Date	Conducted Date	Teaching Aid Used
18	conducting polymer, Biopolymer	4/1/23	18/1/23	
19	Fuels - Introduction classification	4/1/23	20/1/23	
20	Units of calorific value, prop. of good fuel.	6/1/23	25/1/23	
21	Construction and working of Bomb calorimeter &	11/1/23	26/1/23	
22	Construction and working of Boyl's Gas calorimeter.	11/1/23	11/2/23	
23	Numericals on Bomb & Boys gas calorimeter	13/1/23	11/2/23	
24	Higher and lower calorific value	13/1/23	11/2/23	
25	Corrosion - Introduction, Types.	18/1/23	6/2/23	
26	Atmospheric and immersed corrosion	18/1/23	6/2/23	
27	Factors affecting rate of corrosion	20/1/23	7/2/23	

S. Mendir
FACULTY MEMBER

S. Mendir
H.O.D.

LECTURES CONDUCTED

Class : _____ Div.: _____ Semester : _____
 Subject : _____ Lectures Per Week : _____

Lecture No	Topic / Content Covered	Planned Date	Conducted Date	Teaching Aid Used
28.	prevention of corrosion by proper Design.	25/11/23	7/12/23	
29	Galvanizing and tinning process	25/11/23	8/12/23	
30	Electroplating process of prevention of corrosion.	27/11/23	8/12/23	
31.	Metallic material & Green chemistry Introduction.	1/12/23	9/12/23	
32.	Purpose of making Alloy. ferrous Alloy - plain carbon steel	11/12/23	9/12/23	
33	Nonferrous Alloy - Alloy of Al Ni, Cu,	31/12/23	10/12/23	
34.	Composition, properties and Uses of Alloy	15/12/23	10/12/23	
35.	Significance of Green chemistry	15/12/23	13/12/23	
36	Goals and Twelve principles of Green chemistry.	17/12/23	13/12/23	

S. Manz
FACULTY MEMBER

[Signature]
H.O.D.

PRACTICAL / TUTORIAL

Class 11B Tech

Div.: C

Expt No	Title of the Experiment/ Tutorial/Assignment	Batch C ₁		Batch C ₂	
		Planned Date	Conducted Date	Planned Date	Conducted Date
1	Demonstration of Digital pH meter	22/11/22	22/11/22	25/11/22	25/11/22
2	preparation of Urea formaldehyde Resin	29/11/22	29/11/22	2/12/22	2/12/22
3	Demonstration of chroma tography	6/12/22	29/11/22	9/12/22	2/12/22
4	Determination of Rate of corrosion.	13/12/22	6/12/22	16/12/22	9/12/22
5	Determination of Acidity of water	20/12/22	13/12/22	23/12/22	16/12/22
6	Determination of Alkalinity of water	27/12/22	20/12/22	28/12/22	23/12/22
7	Determination of Hardness of water	10/01/23	10/01/23	13/01/23	13/01/23

S. Manoj
Course Coordinator

HOD

ASSIGNMENT COND

Subject Name: Engg che

Batch C ₃		Planned Date
Planned Date	Conducted Date	
22/11/22	22/11/22	
29/11/22	29/11/22	
29/11/22	29/11/22	
29/11/22	29/11/22	
13/12/22	6/12/22	
20/12/22	13/12/22	
27/12/22	20/12/22	
10/01/23	30/11/22	

Note:
Bloom Taxonomy Levels: L1 - Remembering / Know
L4 - Analysis / Analyze, L5 - Synthesis / Evaluate, L

A.Y. 2022-23
Sem I

G. K. GUJAR MEMORIAL CHARITABLE TRUST'S
DR. ASHOK GUJAR TECHNICAL INSTITUTE'S
DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD
 Vidyannagar Extn., Banawadi, KARAD 415124, Dist.: Satara, Maharashtra, INDIA
Department of Mechanical Engineering

Syllabus Progress Report													
DACOE/ACADM/SPR-FRM-01													
SPR-FRM-01 - Rev. No: 1 Date: 07/01/2019													
17 Aug - 31 Oct 2022													
Sr. No.	Subject	Name of Faculty	Class:- S.Y.Mech	Total No. of Lectures Planned	Total No. Lectures Conducted	% of Syllabus Completed	Batch	Date:-	Name of Faculty	Total No. of Practical Planned	Total No. of Practicals Conducted	% of Practical Completed	Sign
1	M III	Prof.A.A.Panaskar		32	32	55%	A1		ADP	06	03	50	Patil
							A2			06	03	50	Patil
							A3						
							A4						
2	ET	Prof. V.B.Suryawanshi		32	31	50%	A1		NBS	04	3	40%	AH
							A2						
							A3						
							A4						
3	ATD	Prof. V.V.Rangate		25	23	46%	A1		VVR	08	05	50%	Shinde
							A2						
							A3						
							A4						
4	Meta	Prof. S.V.Janugade		32	29	65%	A1		SVJ	08	8	80	Shinde
							A2						
							A3						
							A4						
5	FM	Prof. S.D.Bagade		32	31	65%	A1		SDS	10	6	60%	Shinde
							A2						
							A3						
							A4						



Mueshi

HOD

Academic Incharge

G. K. GUJAR MEMORIAL CHARITABLE TRUST'S
 DR. ASHOK GUJAR TECHNICAL INSTITUTE'S
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 Vidyanagar Extn., Banawadi, KARAD 415124, Dist.: Satara, Maharashtra, INDIA

Department of Mechanical Engineering

DACOE/ACADM/SPR-FRM-01

Syllabus Progress Report

SPR-FRM-01 - Rev. No. 1 Date: 07/01/2019

17 Aug - 31 Oct 2022

Sr. No.	Subject	Name of Faculty	Class:- T.Y. Mech		Date:-	Batch	Name of Faculty	Total No. of Practical Planned	Total No. of Practicals Conducted	% of Practical Completed	Sign
			Total No. of Lectures Planned	% of Syllabus Completed							
1	CE	Prof. H.K.Shete	30	26	60%	A1	HKS	7	5	50	HKS
						A2		7	5	50	
						A3		7	4	50	
						A4		7	0	-	
2	TOM II	Prof. R.R.Chavan	30	28	70	A1	RRC	08	06	70	RRC
						A2		08	06	70	
						A3		08	06	70	
						A4		08	06	70	
3	HMT	Prof. P.S.Mohite	30	27	60%	A1	PSM	08	06	70%	PSM
						A2		08	06	70	
						A3		07	05	70	
						A4		07	05	70	
4	MD I	Prof. P.P.Bhise	30	28	50%	A1					
						A2					
						A3					
						A4					
5	ME	Prof. P.S.Gunavant	30	27	70	A1	PSG	08	06	70	PSG
						A2		08	06	70	
						A3		08	06	70	
						A4		08	06	70	
6	ERP	Prof. S.J.Mulani	30	22	50%	A1					
						A2					
						A3					
						A4					

Shubhakar
 Academic Incharge

M. S. S. J.
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Department of Mechanical Engineering

DACOE/ACADM/SPR-FRM-01

Syllabus Progress Report

SPR-FRM-01 - Rev. No: 1 Date: 07/01/2019

17 Aug - 31 Oct 2022

Sr. No.	Subject	Name of Faculty	Class:- Final Year B.Tech Mech		Batch	Date:-	Name of Faculty	Total No. of Practical Planned	Total No. of Practicals Conducted	% of Practical Completed	Sign
			Total No. of Lectures Planned	Total No. Lectures Conducted							
1	RAC	Prof. V.M.Jamadar	30	27	A1	17 Aug - 31 Oct 2022	VMJ	08	06	70%	[Signature]
							VMJ	08	06	70%	
							VMJ	08	06	70%	
							VMJ	08	06	70%	
2	MSD	Prof.A.D.Awasare	30	26	A1	17 Aug - 31 Oct 2022	ADA	08	06	70%	[Signature]
							ADA	08	06	70%	
							ADA	08	06	70%	
							ADA	08	06	70%	
3	FEA	Prof. V.D.Yadav	30	25	A1	17 Aug - 31 Oct 2022	VDY	08	05	65%	[Signature]
							VDY	08	05	65%	
							VDY	08	05	65%	
							VDY	08	05	65%	
4	AE	Prof. P.P.Bhise	30	27	A1	17 Aug - 31 Oct 2022	PPB	08	06	70%	[Signature]
							PPB	08	06	70%	
							PPB	08	06	70%	
							PPB	08	06	70%	
5	TQM	Prof. M.M.Kumthekar	30	17	A1	17 Aug - 31 Oct 2022	MMK	08	05	60%	[Signature]
							MMK	08	05	60%	
							MMK	08	05	60%	
							MMK	08	05	60%	

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Department of Mechanical Engineering

DACOE/ACADM/SPR-FRM-01

Syllabus Progress Report

SPR-FRM-01 - Rev. No: 1 Date: 07/01/2019

07 Feb - 30 April 2023

Sr. No.	Class:-	S. Y. Mech	Subject	Name of Faculty	Total No. of Lectures Planned	Total No. Lectures Conducted	% of Syllabus Completed	Batch	Date:-	Name of Faculty	Total No. of Practical Planned	Total No. of Practicals Conducted	% of Practical Completed	Sign
1	ANM	Prof. V.D.Aphsinge			36	38	90%	A1	07 Feb - 30 April 2023	VDA	07	07	100%	[Signature]
								A2		VDA	07	07	100%	
								A3		VDA	07	07	100%	
								A4		VDA	07	07	100%	
2	AME	Prof. R.R.Chavan		36	38	90%	A1	07 Feb - 30 April 2023	RRC	13	11	100	[Signature]	
							A2		RRC	13	12	100		
							A3		RRC	13	11	100		
							A4		RRC	13	11	100		
3	FTM	Prof. P.S.Gunavant		35	34	85%	A1	07 Feb - 30 April 2023	PSG	13	10	100	[Signature]	
							A2		PSG	13	11	100		
							A3		PSG	13	10	100		
							A4		PSG	13	10	100		
4	TOM I	Prof. S.D.Bagade		38	34	88%	A1	07 Feb - 30 April 2023		10	9	100%	[Signature]	
							A2			10	9	100%		
							A3							
							A4		RRC	-	-	-		
5	MTP	Prof. S.V.Janugade		34	36	85%	A1	07 Feb - 30 April 2023	SVJ.	-	-	-	[Signature]	
							A2		SVJ.	-	-	-		
							A3		SVJ.	-	-	-		
							A4		SVJ.	-	-	-		

[Signature]

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[Signature]

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Department of Mechanical Engineering

Syllabus Progress Report

DACOE/ACADM/SPR-FRM-01

SPR-FRM-01 - Rev. No: 1 Date: 07/01/2019

Sr. No.	Subject	Name of Faculty	Total No. of Lectures Planned	Total No. Lectures Conducted	% of Syllabus Completed	Batch	Date:-			Sign
							Name of Faculty	Total No. of Practical Planned	Total No. of Practicals Conducted	
17 Jan - 30 April 2023										
1	IMOR	Prof. M.M.Kumtheka				A1				
						A2				
						A3				
						A4				
2	IFP	Prof. P.S.Mohite	34	29	85%	A1	PSM	13	10	90%
						A2	PSM	13	09	90%
						A3	PSM	13	10	90%
						A4	PSM	13	10	90%
3	MQC	Prof. S.V.Janugade	36	32	85%	A1	SVJ	10	10	100
						A2	SVJ	10	10	100
						A3	SVJ	10	9	90
						A4	SVJ	10	9	90
4	MD II	Prof. P.P.Bhise	36	30	80%	A1	PPB	10	9	90
						A2	PPB	10	9	90
						A3	PPB	10	9	90
						A4	PPB	10	9	90
5	ICE	Prof. R.S.Yadav	36	30	82%	A1	RSY	10	9	90%
						A2	RSY	10	9	90%
						A3	RSY	10	9	90%
						A4	RSY	10	9	90%
6	CAD & M	Prof. P.P.Bhise	36	30	85%	A1				
						A2				
						A3				
						A4				

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Department of Mechanical Engineering

Syllabus Progress Report													
DACOE/ACADM/SPR-FRM-01													
SPR-FRM-01 - Rev. No. 1 Date: 07/01/2019													
Sr. No.	Class:-	Final Year B.Tech Mech	Subject	Name of Faculty	Total No. of Lectures Planned	Total No. Lectures Conducted	% of Syllabus Completed	Batch	17 Jan - 30 April 2023				
									Name of Faculty	Total No. of Practical Planned	Total No. of Practicals Conducted	% of Practical Completed	Sign
1	MechTR	Prof. H.K.Shete			35	30	80%	A1	HKS	9	7	90%	PL
								A2	HKS	9	7	90%	PL
								A3	HKS	9	7	90%	PL
								A4	HKS	9	7	90%	PL
2	EPE	Dr. V.M.Jamadar			38	32	85%	A1	VMJ	08	08	100%	PL
								A2	VMJ	08	08	100%	PL
								A3	VMJ	08	08	100%	PL
								A4	VMJ	08	08	100%	PL
3	NV	Prof. A.D.Awasare			39	32	88%	A1	ADP	07	08	100%	ADP
								A2	ADP	09	08	100%	ADP
								A3	ADP	09	08	100%	ADP
								A4	ADP	09	08	100%	ADP
4	PM	Prof. S.J.Mulani			34	30	80%	A1	SSM	08	07	90%	PL
								A2	SSM	08	06	90%	PL
								A3	SSM	08	07	90%	PL
								A4	SSM	08	07	90%	PL
5	IAR	Prof. V.D.Yadav			35	30	80%	A1	VDP	6	5	90%	PL
								A2	VDP	6	5	90%	PL
								A3	VDP	6	5	90%	PL
								A4	VDP	6	5	90%	PL

(Signature)
HOD

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Academic Incharge

UNIT NO: 1

Abstract views of an Operating System:-

What is OS?

- For a young school/college student, an OS is the s/w that permits access to the wealth of knowledge available on the Internet

- For a programmer, an OS is the software that permits ~~like~~ the use of a computer system for pgm development.

- For a person using an application package, an OS is simply the software that makes it possible for him to use the package.

- For a technician in a computerized chemical plant, the OS is the invisible component of a computer system that controls the plant.

• Perception about an OS depends on three factors:

- ① The purpose for which a computer is being used
- ② Computing environment i.e. the env. in which the computer system is used,
- ③ degree of identity of computer system

Abstract views of users contain imp. features of a system from a user's perspective

- It helps an OS designer to understand the requirements of the user, which helps in planning the features of an OS

- Abstract views are also useful for understanding the design & implementation of a system.



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ϵ = emissivity of material.

[A] Polymer

Advanced Material - The material developed by formulation or combination of one or more substance are called Advanced materials. & such a material exhibit unique properties & hence, are significant in different applications.

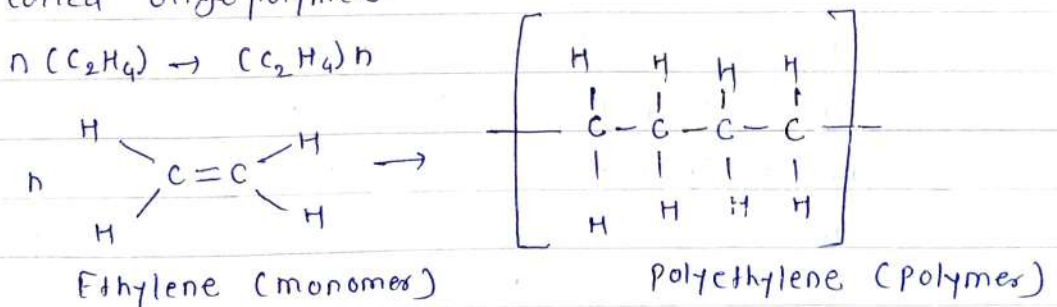
Polymer - Introduction :-

- The compounds formed by large no. of small molecules (called monomers) linked together are known as polymers.
- It is having high molecular weight ^{mass} compound
e.g. The monomers of ethylene gets linked together to form Polyethylene.

The monomers of vinyl chloride get linked together to form Polyvinyl chloride.

- Single repeated unit is called monomer & resultant high molecular weight compound called polymer.

on the basis of physical property, the polymers with high degree of polymerization are known as high polymers & those having comparatively low degree of polymerization called oligopolymers.



Polymerisation -

The reaction of monomers to form a polymer is known as polymerization.

The polymers are formed mainly by

- 1) Addition polymerization (chain polymerization)
- 2) Condensation polymerization (step polymerization)

Process of polymerisation involve many monomers which combine to form large molecule which is called as polymer

Monomer	Polymer
1) vinyl chloride	poly vinyl chloride
2) Vinyl acetate	poly vinyl acetate.
3) Ethylene	polyethylene
4) styrene	polystyrene

Addition / chain polymerisation

The word chain indicates elongation of carbon skeleton to form a polymer.

Generally such a polymerisation involve the $(C=C)$ link in monomer.

The double bond breaks and as a result two single bonds on either sides of each carbon are formed & thereby elongation of carbon chain continues

- The Addition polymerisation is undergone by monomers having $C=C$ linkage

e.g. ethylene, vinyl chloride, propylene, butadiene, styrene

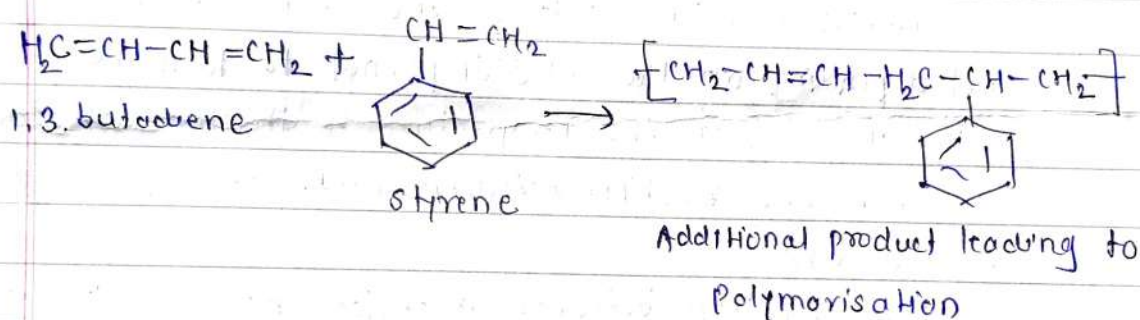
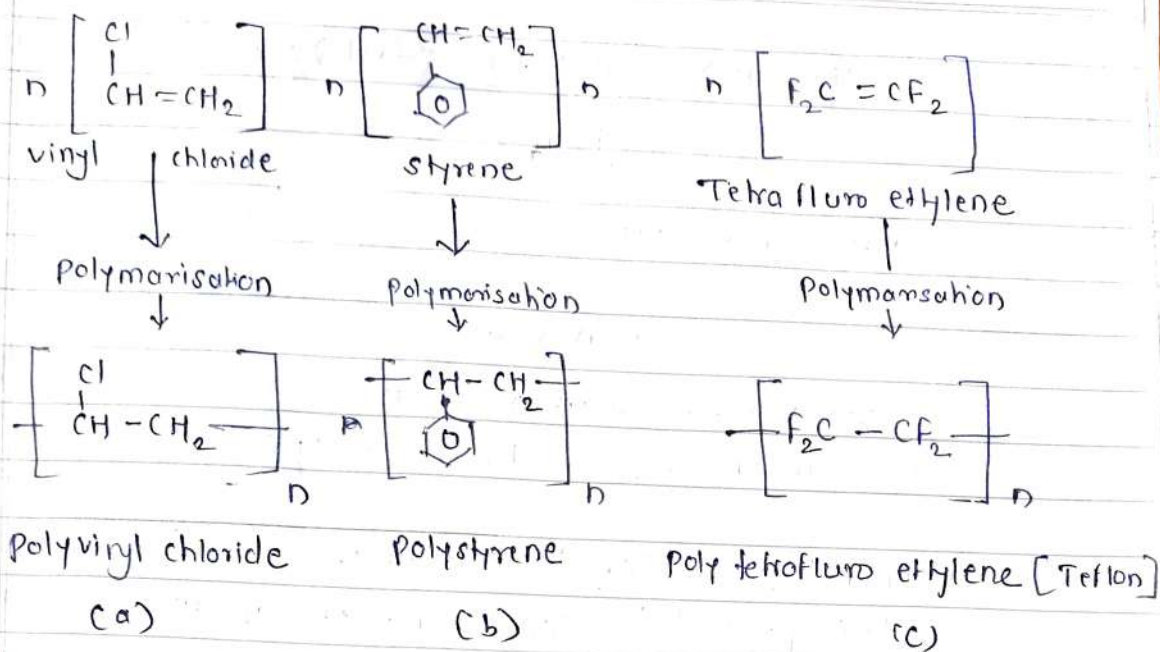
- The rate of Reaction is very low.

The Addition polymerisation may be between some monomers or between two different monomers species which react to form a third monomer which in turn form a polymer.

- If two same monomers join to form polymer the method is known as chain polymerisation while if two monomer combine to form a product which is turns out as monomer the method is known as co-polymerisation

Generally polymers of very high molecular weight are formed by this method.

- The various examples of addition / chain polymerisation & co-polymerisation are follows.

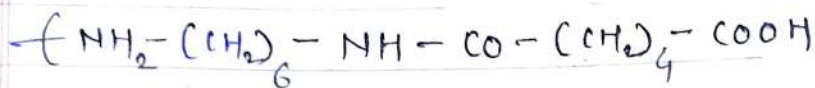
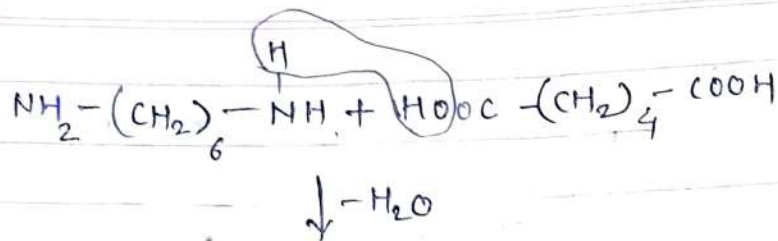


In this (a), (b), and (c) are examples of chain polymerisation. (b) is the polymer where only side chain of styrene takes active part in forming polymer while benzene ring remains intact.

(d) is the example of co-polymerisation when butadiene & styrene combine to give an additional product, which acts as a monomer to form poly butadiene co-styrene polymer known as Buna-S.

Condensation / Step polymerisation :- It is defined as "a reaction occurring between simple poly-group-containing monomer with the formation of polymer and elimination of small molecules like water HCl etc.

e.g.) Hexamethylene diamine and adipic acid condenses to form a polymer nylon 6:6.



Nylon 6:6

Condensation polymerization occurs stepwise hence the rate of polymerisation is comparatively low.

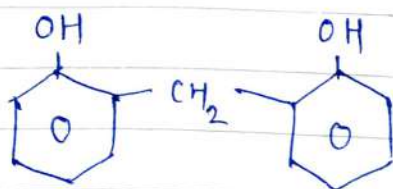
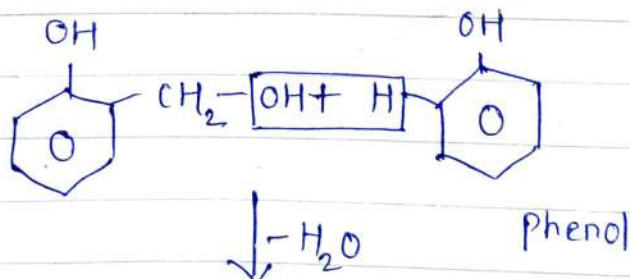
- Phenol formaldehyde / Bakelite

It is prepared by condensing phenol with formaldehyde in the presence of acidic / alkaline catalyst.

- Initial reaction results in the mono, di and trimers not depending on the ratio of phenol to formaldehyde or kind of catalyst, the temperature & the time of reaction.

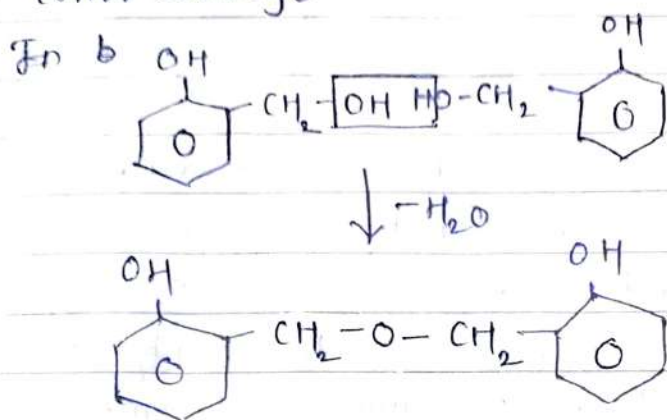
- Then the reaction between methylphenols & phenol may occur

The reaction between methylol's hydroxyl group or the hydrogen in the benzene ring of phenol, producing methylene linkage



Methylene linkage / bridge

(b) Reaction betⁿ two methylol's hydroxyl group forming an ether linkage.

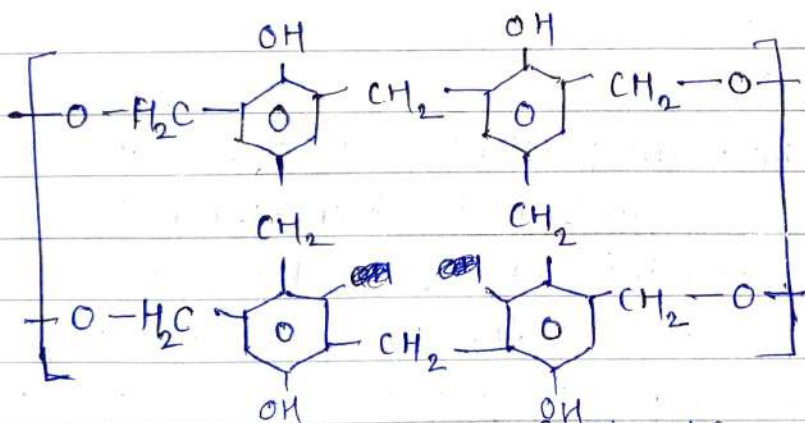


Ether linkage

In both the case water molecule is eliminated.

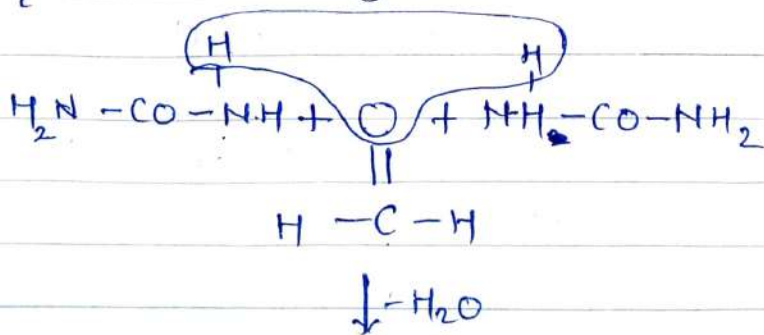
In the next step the two linkages formed, combine together to form cross linked structure of methylene bridge and ether linkage to get monomer of phenol form. aldehyde. & then polymerisation of it to get phenol formaldehyde polymer / Bakelite

Strength of Bakelite depends upon the molecular weight



Molecular structure of phenol formaldehyde

eg. 3) Urea formaldehyde



$(\text{H}_2\text{N}-\text{CO}-\text{NH}-\text{CH}_2-\text{NH}-\text{CO}-\text{NH}_2)_n$ Urea formaldehyde Resin

Classification of Plastics

on the basis of setting manner in final stage of manufacture the plastic material or plastic are classified in to two classes

- i) Thermo plastic
- ii) Thermo setting

Thermo plastics or Thermosoftening plastics :-

- These show reversible change on heating i.e. they soften on heating and but regain their original properties on cooling.
- They gain or lose hardness with rise or fall in temperature. Their chemical nature does not get affected even on repeated heating and cooling i.e. the changes are more of physical nature.
- These resins can be reclaimed from waste and they are soft, weak and less brittle as compared to former type of plastic resins.
- The method usually used to manufacture polymers is addition polymerisation.
- They are generally long chain linear polymer with occasional or no cross linking.
- They are soluble in specific organic solvents.
- Examples of this class of resins are cellulose nitrate, polyacrylates ethyl cellulose, polyvinyl resins, styrene or polystyrene resins, polyamide, polyethers, polypropylene, polyethylene, etc.

Thermo setting plastics

- These are the polymers, which on heating change irreversibly into hard and rigid materials.
- This melt of polymer when set into a mould to form an article, is almost a permanent set.
- On reheating the article does not soften again, thus

Inhibiting Irreversibility

- They are hence known as thermosetting plastics or permanent setting resins and during moulding acquire three dimensional cross linked structure with strong covalent bonds.
- on reheating, these bonds retain their strength & hence such a plastic does not soften on heating
- They are hard strong and brittle than thermoplastics
- The method by which these are formed called as Condensation polymerization.
- They are insoluble in almost all organic solvents due their cross linked three dimensional structure
- eg. phenol formaldehyde (bakelite), amino plastics and alkyl plastics, epoxy plastics, silicon etc.

Comparison of plastics

Thermoplastics or Thermosoftening plastics	Thermosetting plastics or thermohardening plastics.
1. These are formed by addition polymerisation	1. These are formed by condensation polymerisation.
2. They are long chain linear polymer with negligible cross links.	2. These have three dimensional network structure with no cross links
3. Structural formula -R-R-R-R-R-R-R-R-	3. Structural formula $\begin{array}{cccccccc} & & & & & & & \\ \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} \\ & & & & & & & \\ \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} \\ & & & & & & & \\ \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} & \text{-R} \end{array}$
4. monomer used in these is generally bifunctional	4. In this monomer used is of higher functionality
5. They have low molecular wt.	5. They have high molecular weight

<p>6. They are usually soft, weak and less brittle</p> <p>7. They are usually soluble in all organic solvents</p> <p>8. They get softened on reheating readily because secondary forces between the individual chain can break easily by heat or pressure</p> <p>9. They can be softened reshaped and thus reused</p> <p>10. eg. polythene, polystyrene, PVC,</p>	<p>6. They are usually hard, strong and more brittle.</p> <p>7. Due to strong bonds and cross links they are insoluble in almost all organic solvents.</p> <p>8. They do not soften on heating because the cross links and bond retain their strength on heating, and</p> <p>9. They retain their shape and structure even on heating even hence they cannot be reshaped and reused.</p> <p>10. eg. phenolformaldehyde, Ureaformaldehyde, Nylon 6:6</p>
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• Synthesis properties and uses of various polymer.

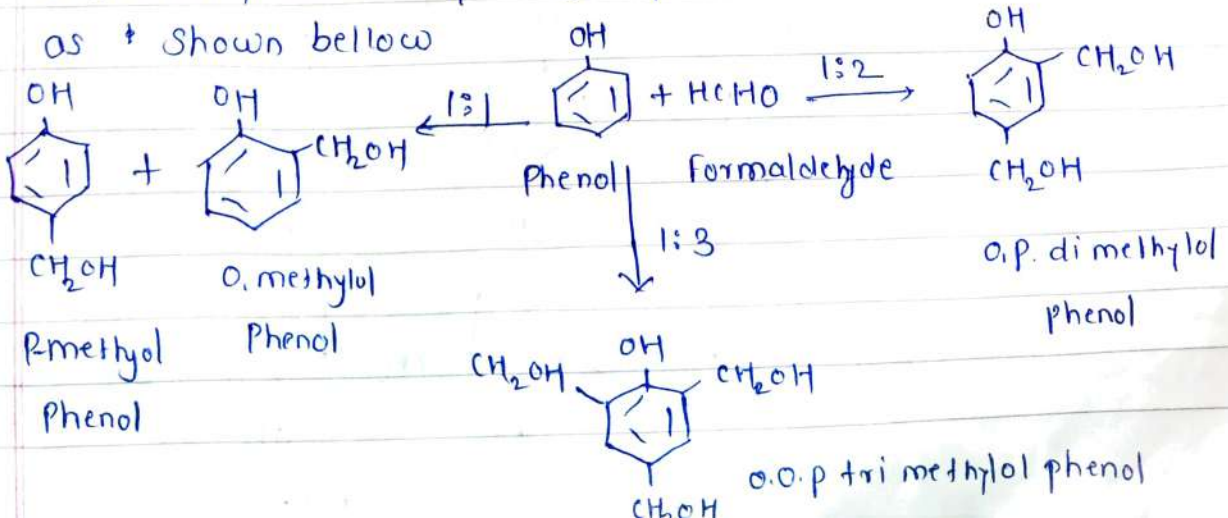
1) phenol formaldehyde Resins.

Synthesis :-

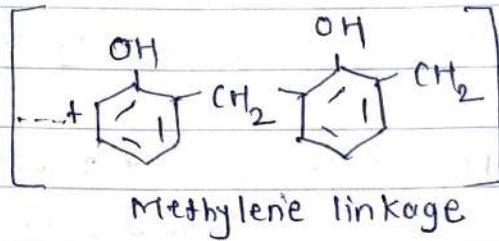
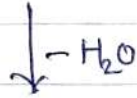
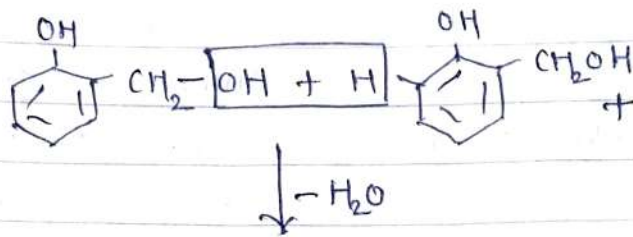
These are synthesised by condensation polymerization.

step - I preparation of o.o.p. trimethylol phenol resin

phenol and formaldehyde react with each other to give different products depending upon the ratio of the reactants as shown below



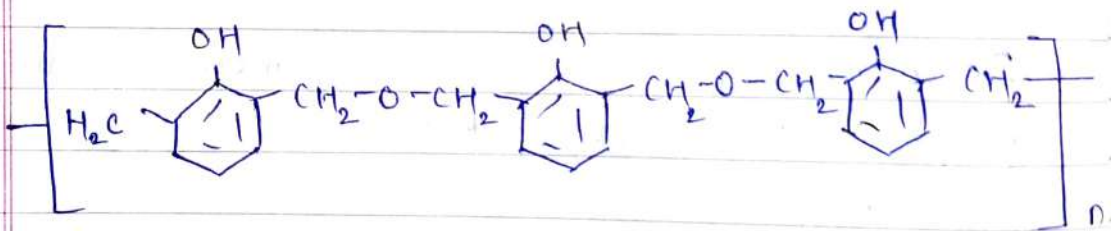
step - II Monomethylol phenol (i.e. ortho or para) can undergo polymerization to give low molecular weight polymer known as Novolac



Novolac

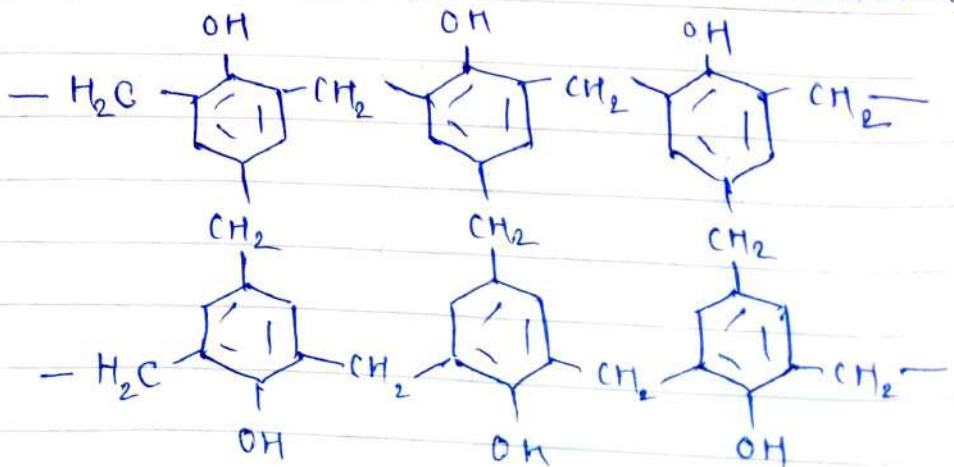
The linear polymer obtained as above is thermoplastic and dissolve in few aromatic solvents.

The product with ether linkage gives a polymer called Resole as,



Step - III

The Novolac obtained in step 2 is simply heated at about 150°C using a catalyst whereby a highly cross linked product bakelite is obtained.



Structure of Bakelite

Properties of Urea formaldehyde

1. Urea formaldehyde resin give clear, water-white product of good tensile strength
2. They possess good electrical insulates character.
3. They possess good chemical resistance (exception-strong acids)
4. It possess great hardness, great light stability and good abrasion resistance
5. Resistant to water
6. Resistant to heat & flame

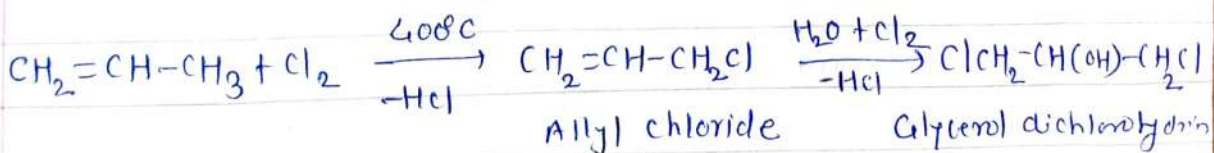
Uses of Ureaformaldehyde

1. It is used for bonding grinding wheels.
2. Used as a binder of glass fibres, rock wool etc which are used for filtration and insulation purpose
3. Used as a binder for foundry cores.
4. Used as an cation exchange resin in water softening
5. Used in bonding plywood.
6. Used as an electrical insulation
7. For decorative articles like plates, drinking glasses, dishes etc

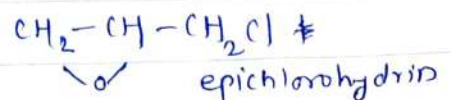
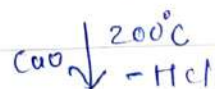
Epoxy Resin.

Epoxy Resins are combination of bisphenol and epichlorohydrin

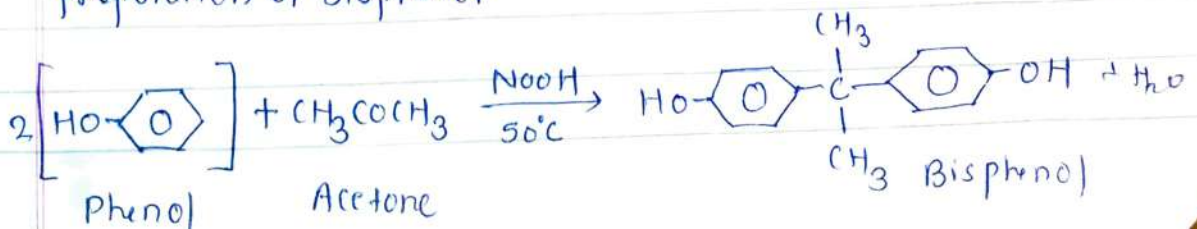
- preparation of epichlorohydrin

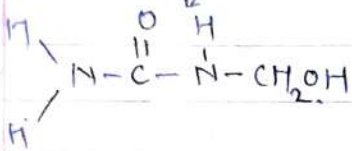
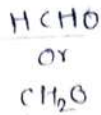
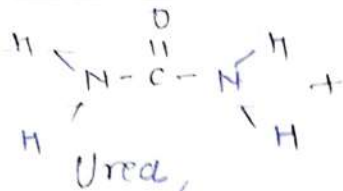


Propylene

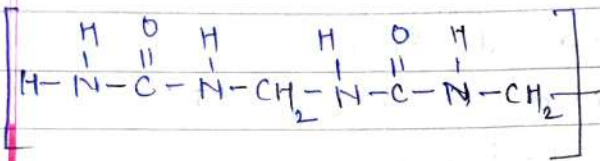


Preparation of bisphenol

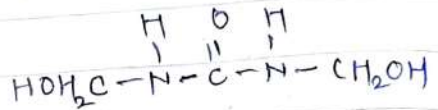




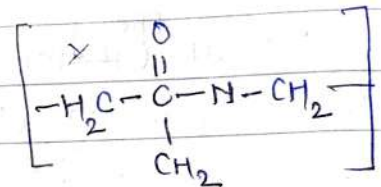
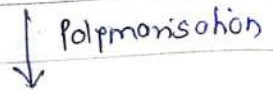
Mono methyl Urea Resin



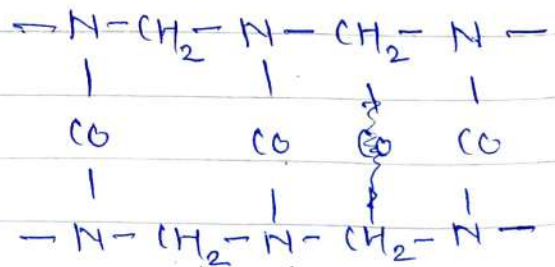
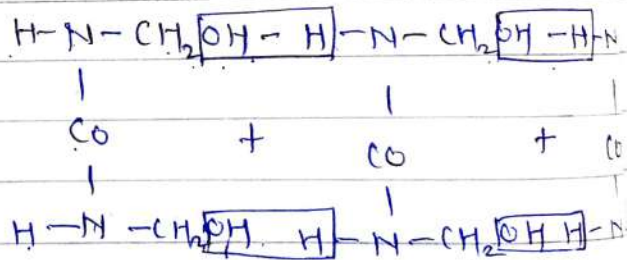
linear polymer of Urea formaldehyde



Di-methylol urea resin.



Highly cross linked Poly



Urea formaldehyde Resin

Cross linked Polymer

Properties of Urea formaldehyde

1. Urea formaldehyde resin give clear, water-white product of good tensile strength
2. They possess good electrical insulator character.
3. They possess good chemical resistance (exception - strong acids)
4. It possess great hardness, great light stability and good abrasion resistance
5. Resistant to water
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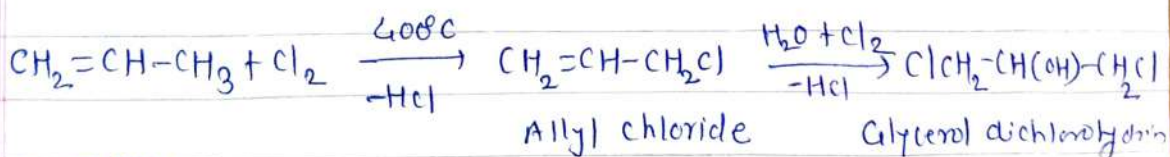
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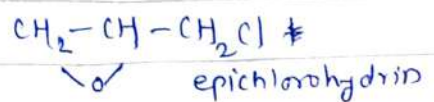
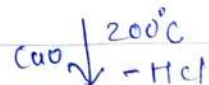
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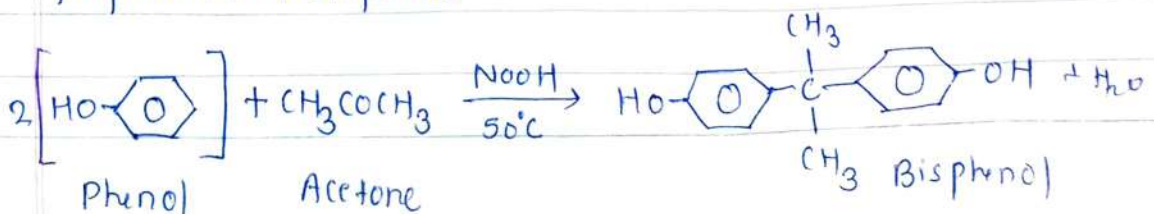
- preparation of epichlorohydrin



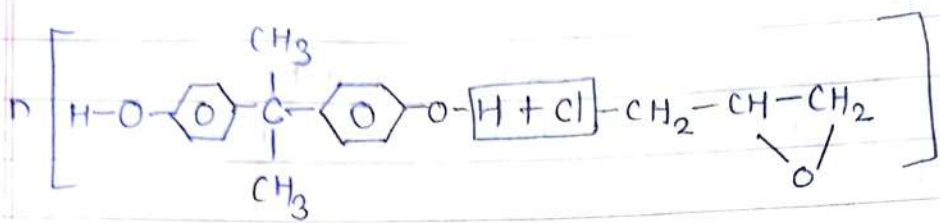
Propylene



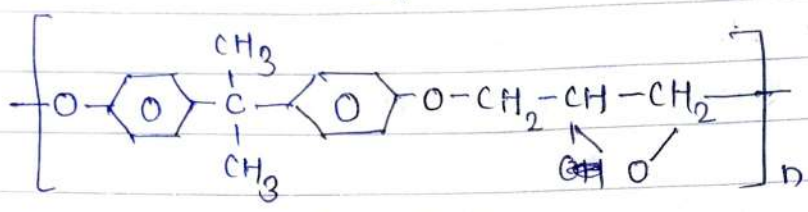
Preparation of bisphenol



Condensation of epichlorohydrin with Bisphenol



$-n \text{HCl}$ \downarrow Alkaline catalyst at 60°C



Epoxy Resin

properties of Epoxy resins.

- Due to the presence of very stable ether linkage, ~~have~~ have high chemical resistance to water, various solvents, acids, alkalis and other chemicals
- The polar nature of the molecules produces excellent adhesion quality.
- The epoxy resins having high flexibility.

Uses

- It is used as a surface coating material.
- Epoxy resins used as a adhesive like for glass, metal and used as a glass-fibre-reinforced plastics.
- The moulds made from epoxy resins are employed for the production of component for aircraft and automobiles
- Epoxy resins are applied over cotton, rayon and bleached fabrics to impart crease-resistance and shrinkage control
- It is used as a laminating material in electrical equipments.