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1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

AC – 11 July, 2022

Item No. – 6.41 (R)

University of Mumbai

Bachelor of Engineering

in

Computer Engineering

Second Year with Effect from AY 2020-21

Third Year with Effect from AY 2021-22

Final Year with Effect from AY 2022-23

(REV- 2019 'C' Scheme) from Academic Year 2019 – 20

Under

FACULTY OF SCIENCE & TECHNOLOGY

(As per AICTE guidelines with effect from the academic year 2019–2020)

University of Mumbai

Sr. No.	Heading	Particulars
1	Title of the Course	**Fourth Year Engineering (Computer Engineering)**
2	Eligibility for Admission	**After Passing Second Year Engineering as per the Ordinance 0.6243**
3	Passing Marks	**40%**
4	Ordinances / Regulations (if any)	**Ordinance 0.6243**
5	No. of Years / Semesters	**8 semesters**
6	Level	~~P.G.~~ **/ U.G./** ~~Diploma / Certificate~~ (Strike out which is not applicable)
7	Pattern	~~Yearly~~ **/ Semester** (Strike out which is not applicable)
8	Status	~~**New**~~**/** Revised (Strike out which is not applicable)
9	To be implemented from Academic Year	**With effect from Academic Year:2021-2022**

Dr. S.K.Ukarande
Associate Dean
Faculty of Science and Technology
University of Mumbai

Dr. Anuradha Muzumdar
Dean
Faculty of Science and Technology
University of Mumbai

Preamble

To meet the challenge of ensuring excellence in engineering education, the issue of quality needs to be addressed, debated and taken forward in a systematic manner. Accreditation is the principal means of quality assurance in higher education. The major emphasis of accreditation process is to measure the outcomes of the program that is being accredited. In line with this Faculty of Science and Technology (in particular Engineering) of University of Mumbai has taken a lead in incorporating philosophy of outcome based education in the process of curriculum development.

Faculty resolved that course objectives and course outcomes are to be clearly defined for each course, so that all faculty members in affiliated institutes understand the depth and approach of course to be taught, which will enhance learner's learning process. Choice based Credit and grading system enables a much-required shift in focus from teacher-centric to learner-centric education since the workload estimated is based on the investment of time in learning and not in teaching. It also focuses on continuous evaluation which will enhance the quality of education. Credit assignment for courses is based on 15 weeks teaching learning process, however content of courses is to be taught in 13 weeks and remaining 2 weeks to be utilized for revision, guest lectures, coverage of content beyond syllabus etc.

There was a concern that the earlier revised curriculum more focused on providing information and knowledge across various domains of the said program, which led to heavily loading of students in terms of direct contact hours. In this regard, faculty of science and technology resolved that to minimize the burden of contact hours, total credits of entire program will be of 170, wherein focus is not only on providing knowledge but also on building skills, attitude and self learning. Therefore in the present curriculum skill based laboratories and mini projects are made mandatory across all disciplines of engineering in second and third year of programs, which will definitely facilitate self learning of students. The overall credits and approach of curriculum proposed in the present revision is in line with AICTE model curriculum.

The present curriculum will be implemented for Second Year of Engineering from the academic year 2021-22. Subsequently this will be carried forward for Third Year and Final Year Engineering in the academic years 2022-23, 2023-24, respectively.

Dr. S.K. Ukarande

Associate Dean

Faculty of Science and Technology

University of Mumbai

Dr Anuradha Muzumdar

Dean

Faculty of Science and Technology

University of Mumbai

Incorporation and Implementation of Online Contents fromNPTEL/ Swayam Platform

The curriculum revision is mainly focused on knowledge component, skill based activities and project based activities. Self learning opportunities are provided to learners. In the revision process this time in particular Revised syllabus of 'C' scheme wherever possible additional resource links of platforms such as NPTEL, Swayam are appropriately provided. In an earlier revision of curriculum in the year 2012 and 2016 in Revised scheme 'A' and 'B' respectively, efforts were made to use online contents more appropriately as additional learning materials to enhance learning of students.

In the current revision based on the recommendation of AICTE model curriculum overall credits are reduced to 171, to provide opportunity of self learning to learner. Learners are now getting sufficient time for self learning either through online courses or additional projects for enhancing their knowledge and skill sets.

The Principals/ HoD's/ Faculties of all the institute are required to motivate and encourage learners to use additional online resources available on platforms such as NPTEL/ Swayam. Learners can be advised to take up online courses, on successful completion they are required to submit certification for the same. This will definitely help learners to facilitate their enhanced learning based on their interest.

Dr. S.K.Ukarande
Associate Dean
Faculty of Science and Technology
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Dr Anuradha Muzumdar
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Faculty of Science and Technology
University of Mumbai

Preface by Board of Studies in Computer Engineering

Dear Students and Teachers, we, the members of Board of Studies Computer Engineering, are very happy to present Third Year Computer Engineering syllabus effective from the Academic Year 2021-22 (REV-2019'C' Scheme). We are sure you will find this syllabus interesting, challenging, fulfill certain needs and expectations.

Computer Engineering is one of the most sought-after courses amongst engineering students. The syllabus needs revision in terms of preparing the student for the professional scenario relevant and suitable to cater the needs of industry in present day context. The syllabus focuses on providing a sound theoretical background as well as good practical exposure to students in the relevant areas. It is intended to provide a modern, industry-oriented education in Computer Engineering. It aims at producing trained professionals who can successfully acquainted with the demands of the industry worldwide. They obtain skills and experience in up-to-date the knowledge to analysis, design, implementation, validation, and documentation of computer software and systems.

The revised syllabus is finalized through a brain storming session attended by Heads of Departments or senior faculty from the Department of Computer Engineering of the affiliated Institutes of the Mumbai University. The syllabus falls in line with the objectives of affiliating University, AICTE, UGC, and various accreditation agencies by keeping an eye on the technological developments, innovations, and industry requirements.

The salient features of the revised syllabus are:

1. Reduction in credits to 170 is implemented to ensure that students have more time for extracurricular activities, innovations, and research.
2. The department Optional Courses will provide the relevant specialization within the branch to a student.
3. Introduction of Skill Based Lab and Mini Project to showcase their talent by doing innovative projects that strengthen their profile and increases the chance of employability.
4. Students are encouraged to take up part of course through MOOCs platform SWAYAM

We would like to place on record our gratefulness to the faculty, students, industry experts and stakeholders for having helped us in the formulation of this syllabus.

Board of Studies in Computer Engineering

Prof. Sunil Bhirud	: Chairman
Prof. SunitaPatil	: Member
Prof. Leena Ragha	: Member
Prof. Subhash Shinde	: Member
Prof .Meera Narvekar	: Member
Prof. Suprtim Biswas	: Member
Prof. Sudhir Sawarkar	: Member
Prof. Dayanand Ingle	: Member
Prof. Satish Ket	: Member

Program Structure for Fourth Year Computer Engineering

UNIVERSITY OF MUMBAI (With Effect from 2022-2023)

Semester VII

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract. Tut.	Theory	Pract.	Total
CSC701	Machine Learning	3	--	3	--	3
CSC702	Big Data Analytics	3	--	3		3
CSDC 701X	Department Level Optional Course-3	3	--	3	--	3
CSDC 702X	Department Level Optional Course-4	3	--	3	--	3
ILO 701X	Institute Level Optional Course-1	3	--	3	--	3
CSL701	Machine Learning Lab	--	2	--	1	1
CSL702	Big Data Analytics Lab	--	2	--	1	1
CSDL 701X	Department Level Optional Course-3 Lab	--	2	--	1	1
CSDL 702X	Department Level Optional Course-4 Lab	--	2	--	1	1
CSP701	Major Project 1	--	6#	--	3	3
Total		**15**	**14**	**15**	**7**	**22**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Pract. & oral	Total
		Internal Assessment			End Sem Exam	Exam. Duration (in Hrs)			
		Test 1	Test 2	Avg					
CSC701	Machine Learning	20	20	20	80	3	--	--	100
CSC702	Big Data Analysis	20	20	20	80	3	--	--	100
CSDC 701X	Department Level Optional Course-3	20	20	20	80	3	--	--	100
CSDC 702X	Department Level Optional Course-4	20	20	20	80	3	--	--	100
ILO 701X	Institute Level Optional Course-1	20	20	20	80	3	--	--	100
CSL701	Machine Learning Lab	--	--	--	--	--	25	25	50
CSL702	Big Data Analytics Lab	--	--	--	--	--	25	25	50
CSDL 701X	Department Level Optional Course-3 Lab						25	-	25
CSDL 702X	Department Level Optional Course-4 Lab	--	--	--	--	--	25	-	25
CSP701	Major Project 1	--	--	--	--	--	50	25	75
Total		**--**	**--**	**100**	**400**	--	**150**	**75**	**725**

Program Structure for Fourth Year Computer Engineering

UNIVERSITY OF MUMBAI (With Effect from 2022-2023)

Semester VIII

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract. Tut.	Theory	Pract.	Total
CSC801	Distributed Computing	3	--	3	--	3
CSDC 801X	Department Level Optional Course -5	3	--	3	--	3
CSDC 802X	Department Level Optional Course -6	3	--	3	--	3
ILO 801X	Institute Level Optional Course -2	3	--	3	--	3
CSL801	Distributed Computing Lab	--	2	--	1	1
CSDL 801X	Department Level Optional Course -5 Lab	--	2	--	1	1
CSDL 802X	Department Level Optional Course -6 Lab	--	2	--	1	1
CSP801	Major Project 2	--	12#	--	6	6
Total		**12**	**18**	**12**	**9**	**21**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Pract & oral	Total
		Internal Assessment			End Sem Exam	Exam Duration (in Hrs)			
		Test 1	Test 2	Avg					
CSC801	Distributed Computing	20	20	20	80	3	--	--	100
CSDC 801X	Department Level Optional Course -5	20	20	20	80	3	--	--	100
CSDC 802X	Department Level Optional Course -6	20	20	20	80	3	--	--	100
ILO 801X	Institute Level Optional Course -2	20	20	20	80	3	--	--	100
CSL801	Distributed Computing Lab	--	--	--	--	--	25	25	50
CSDL 801X	Department Level Optional Course -5 Lab	--	--	--	--	--	25	25	50
CSDL 802X	Department Level Optional Course -6 Lab						25	25	50
CSP801	Major Project- 2	--	--	--	--	--	100	50	150
Total		**--**	**--**	**80**	**320**	--	**175**	**125**	**700**

Major Project 1 and 2 :

- Students can form groups with minimum 2 (Two) and not more than 4 (Four)
- Faculty Load : In Semester VII – ½ hour per week per project group
  In Semester VIII – 1 hour per week per project group

Program Structure for Computer Engineering

UNIVERSITY OF MUMBAI (With Effect from 2022-2023)

Department and Institute Optional Courses and Labs

Semester	**Department/ Institute Optional Courses and Labs**	**Subject**
VII	Department Optional Course -3	CSDC7011: Machine Vision CSDC7012: Quantum Computing CSDC7013: Natural Language Processing
	Department Optional Lab -3	CSDL7011: Machine Vision Lab CSDL7012: Quantum Computing Lab CSDL7013: Natural Language Processing Lab
	Department Optional Course -4	CSDC7021 : Augmented and Virtual Reality CSDC7022 : Block Chain CSDC7023 : Information Retrieval
	Department Optional Lab -4	CSDL7021 : Augmented and Virtual Reality Lab CSDL7022 : Block Chain Lab CSDL7023 : Information Retrieval Lab
	Institute level Optional Courses-I	ILO7011. Product Lifecycle Management ILO7012. Reliability Engineering ILO7013. Management Information System ILO7014. Design of Experiments ILO7015. Operation Research ILO7016. Cyber Security and Laws ILO7017. Disaster Management & Mitigation Measures ILO7018. Energy Audit and Management ILO7019. Development Engineering

Program Structure for Computer Engineering

UNIVERSITY OF MUMBAI (With Effect from 2022-2023)

Department and Institute Optional Courses and Labs

Semester	**Department/ Institute Optional Courses and Labs**	**Subject**
VIII	Department Optional Course -5	CSDC8011 : Deep Learning CSDC8012 : Digital Forensic CSDC8013 : Applied Data Science
	Department Optional Lab -5	CSDL8011 : Deep Learning Lab CSDL8012 : Digital Forensic Lab CSDL8013 : Applied Data Science Lab
	Department Optional Course -6	CSDC8021 : Optimization in Machine Learning CSDC8022: High Performance Computing CSDC8023: Social Media Analytics
	Department Optional Lab -6	CSDL8021 : Optimization in Machine Learning Lab CSDL8022: High Performance Computing Lab CSDL8023: Social Media Analytics Lab
	Institute level Optional Courses-II	ILO8021. Project Management ILO8022. Finance Management ILO8023. Entrepreneurship Development and Management ILO8024. Human Resource Management ILO8025. Professional Ethics and CSR ILO8026. Research Methodology ILO8027. IPR and Patenting ILO8028. Digital Business Management ILO8029. Environmental Management

Program Structure for Third Year Computer Engineering

UNIVERSITY OF MUMBAI (With Effect from 2021-2022)

Semester V

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract.	Theory	Pract.	Total
CSC501	Theoretical Computer Science	3	--	3	--	3
CSC502	Software Engineering	3	--	3		3
CSC503	Computer Network	3	--	3	--	3
CSC504	Data Warehousing & Mining	3	--	3	--	3
CSDLO501x	Department Level Optional Course- 1	3	--	3	--	3
CSL501	Software Engineering Lab	--	2	--	1	1
CSL502	Computer Network Lab	--	2	--	1	1
CSL503	Data Warehousing & Mining Lab	--	2	--	1	1
CSL504	Professional Comm. & Ethics II	--	2*+2	--	2	2
CSM501	Mini Project: 2 A	--	4$	--	2	2
Total		**15**	**14**	**15**	**07**	**22**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Pract &oral	Total
		Internal Assessment			End Sem Exam	Exam. Duration (in Hrs)			
		Test 1	Test 2	Avg					
CSC501	Theoretical Computer Science	20	20	20	80	3	25	--	125
CSC502	Software Engineering	20	20	20	80	3	--	--	100
CSC503	Computer Network	20	20	20	80	3	--	--	100
CSC504	Data Warehousing & Mining	20	20	20	80	3	--	--	100
CSDLO501x	Department Level Optional Course -1	20	20	20	80	3	--	--	100
CSL501	Software Engineering Lab	--	--	--	--	--	25	25	50
CSL502	Computer Network Lab	--	--	--	--	--	25	25	50
CSL503	Data Warehousing & Mining Lab	--	--	--	--	--	25	25	50
CSL504	Professional Comm. & Ethics II	--	--	--	--	--	50	--	50
CSM501	Mini Project : 2A	--	--	--	--	--	25	25	50
Total		**--**	**--**	**100**	**400**	--	**175**	**100**	**775**

* Theory class to be conducted for full class and $ indicates workload of Learner (Not Faculty), students can form groups with minimum 2(Two) and not more than 4(Four). Faculty Load: 1hour per week per four groups.

Program Structure for Third Year Computer Engineering
UNIVERSITY OF MUMBAI (With Effect from 2021-2022)

Semester VI

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract. Tut.	Theory	Pract.	Total
CSC601	System Programming & Compiler Construction	3	--	3	--	3
CSC602	Cryptography & System Security	3	--	3		3
CSC603	Mobile Computing	3	--	3	--	3
CSC604	Artificial Intelligence	3	--	3	--	3
CSDLO601x	Department Level Optional Course -2	3	--	3	--	3
CSL601	System Programming & Compiler Construction Lab	--	2	--	1	1
CSL602	Cryptography & System Security Lab	--	2	--	1	1
CSL603	Mobile Computing Lab	--	2	--	1	1
CSL604	Artificial Intelligence Lab	--	2	--	1	1
CSL605	Skill base Lab Course: Cloud Computing	--	4	--	2	2
CSM601	Mini Project Lab: 2B	--	4[$]	--	2	2
Total		**15**	**16**	**15**	**08**	**23**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Pract. &oral	Total
		Internal Assessment			End Sem Exam	Exam. Duration (in Hrs)			
		Test 1	Test 2	Avg					
CSC601	System Programming & Compiler Construction	20	20	20	80	3	--	--	100
CSC602	Cryptography & System Security	20	20	20	80	3	--	--	100
CSC603	Mobile Computing	20	20	20	80	3	--	--	100
CSC604	Artificial Intelligence	20	20	20	80	3	--	--	100
CSDLO601x	Department Level Optional Course -2	20	20	20	80	3	--	--	100
CSL601	System Programming & Compiler Construction Lab	--	--	--	--	--	25	25	50
CSL602	Cryptography & System Security Lab	--	--	--	--	--	25	--	25
CSL603	Mobile Computing Lab	--	--	--	--	--	25	-	25
CSL604	Artificial Intelligence Lab						25	25	50
CSL605	Skill base Lab Course: Cloud Computing	--	--	--	--	--	50	25	75
CSM601	Mini Project :2B	--	--	--	--	--	25	25	50
Total		**--**	**--**	**100**	**400**	--	**175**	**100**	**775**

Department Optional Courses

Department Level Optional Courses	Semester	Code & Course
Department Level Optional Course -1	V	CSDLO5011: Probabilistic Graphical Models CSDLO5012: Internet Programming CSDLO5013: Advance Database Management System
Department Level Optional Course -2	VI	CSDLO6011: Internet of Things CSDLO6012: Digital Signal & Image Processing CSDLO6013: Quantitative Analysis

AC- 23/07/2020
Item No. - 123

UNIVERSITY OF MUMBAI

Scheme

for

Bachelor of Engineering

in

Electronics & Computer Science

Second Year with Effect from AY 2020-21
Third Year with Effect from AY 2021-22
Final Year with Effect from AY 2022-23

(REV- 2019 'C' Scheme) from Academic Year 2019 – 20
Under

FACULTY OF SCIENCE & TECHNOLOGY

(As per AICTE guidelines with effect from the academic year 2019–2020)

Program Structure for Third Year Electronics and Computer Science
UNIVERSITY OF MUMBAI
(With Effect from 2021-2022)

Semester V

Course Code	Course Name	Teaching Scheme (Contact Hours)			Credits Assigned			
		TH	PR	Tut	TH	Pract	Tut	Total
ECC 501	Communication Engineering	3	-	-	3	-	-	**3**
ECC 502	Computer Organization and Architecture	3	-	-	3	-	-	**3**
ECC 503	Software Engineering	3	-	-	3	-	-	**3**
ECC 504	Web Technologies	3	-	-	3	-	-	**3**
ECC DO501	Department Optional (Course - I)	3	-	-	3	-	-	**3**
ECL501	Communication Engineering Lab	-	2			1		**1**
ECL502	Software Engineering and Web Technologies Lab	-	2	-	-	1	-	**1**
ECL503	Department Optional (Course - I) Lab	-	2	-	-	1	-	**1**
ECL504	Business Communication and Ethics	-	4	-	-	2	-	**2**
ECM501	Mini project - 2A	-	4$	-	-	2	-	**2**
Total		**15**	**14**	**-**	**15**	**7**	**-**	**22**

**Theory class; $ indicates workload of learner(Not faculty), for mini-project*

Course Code	Course Name	Examination Scheme							
		Internal Assessment			End Sem Exam	Exam Duration (in Hrs)	TW	Pract/ Oral	Total
		Test 1	Test 2	Av					
ECC 501	Communication Engineering	20	20	20	80	03	-	-	**100**
ECC 502	Computer Organization and Architecture	20	20	20	80	03	-	-	**100**
ECC 503	Software Engineering	20	20	20	80	03	-	-	**100**
ECC 504	Web Technologies	20	20	20	80	03	-	-	**100**
ECC DO501	Department Level Optional Course - I	20	20	20	80	03	-	-	**100**
ECL501	Communication Engineering Lab	-	-	-	-	-	25	25	**50**
ECL502	Software Engineering and Web Technologies lab	-	-	-	-	-	25	25	**50**
ECL503	Department Optional Course -I lab	-	-	-	-	-	25	25	**50**
ECL504	Business Communication and Ethics	-	-	-	-	-	50	-	**50**
ECM501	Mini project - 2A						25	25	**50**
Total				**100**	**400**	**-**	**150**	**100**	**750**

Department Level Optional Couse - I (DO 501):

1. Software Testing and Quality Assurance	**3.** Information Theory and Coding
2. ASIC Verification	**4.** Sensors and Applications

Program Structure for Third Year Electronics and Computer Science
UNIVERSITY OF MUMBAI
(With Effect from 2021-2022)

Semester VI

Course Code	Course Name	Teaching Scheme (Contact Hours)			Credits Assigned			
		TH	PR	Tut	TH	Pract	Tut	Total
ECC 601	Embedded Systems and RTOS	3	-	-	3	-	-	**3**
ECC 602	Artificial Intelligence	3	-	-	3	-	-	**3**
ECC 603	Computer Networks	3	-	-	3	-	-	**3**
ECC 604	Data Warehousing and Mining	3	-	-	3	-	-	**3**
ECC DO601	Department Level Optional Course -II	3	-	-	3	-	-	**3**
ECL 601	Embedded Systems Lab	-	2			1		**1**
ECL602	Artificial Intelligence and Computer Networks Lab	-	2	-	-	1	-	**1**
ECL603	Data Warehousing and Mining Lab	-	2	-	-	1	-	**1**
ECL 604	Skill base Lab:(DLO-II) Lab	-	4	-	-	2	-	**2**
ECM601	Mini Project 2B	-	4$	-	-	2	-	**2**
Total		**15**	**14**	**-**	**15**	**7**	**-**	**22**

$ indicates workload of learner(Not faculty), for mini-project

Course Code	Course Name	Examination Scheme							
		Internal Assessment			End Sem Exam	Exam Duration (in Hrs)	TW	Pract/ Oral	Total
		Test 1	Test 2	Av					
ECC 601	Embedded Systems and RTOS	20	20	20	80	03	-	-	**100**
ECC 602	Artificial Intelligence	20	20	20	80	03	-	-	**100**
ECC 603	Computer Networks	20	20	20	80	03	-	-	**100**
ECC 604	Data Warehousing and Mining	20	20	20	80	03	-	-	**100**
ECC DO601	Department Level Optional Course -II	20	20	20	80	03	-	-	**100**
ECL 601	Embedded Systems Lab	-	-	-	-	-	25	25	**50**
ECL602	Artificial Intelligence and Computer Networks Lab	-	-	-	-	-	25	25	**50**
ECL603	Data Warehousing and Mining Lab	-	-	-	-	-	25	25	**50**
ECL 604	Skill base Lab:(DLO-II) Lab	-	-	-	-	-	50	-	**50**
ECM601	Mini Project - 2B						25	25	**50**
Total				**100**	**400**	**-**	**150**	**100**	**750**

Department Level Optional Couse - II (DO 601):

1. Machine Learning	**3.** Digital Signal Processing
2. Industrial Automation	**4.** Electronic Product Design

Program Structure for Final Year Electronics and Computer Science
UNIVERSITY OF MUMBAI
(With Effect from 2022-2023)

Semester VII

Course Code	Course Name	Teaching Scheme (Contact Hours)			Credits Assigned			
		TH	PR	Tut	TH	Pract	Tut	Total
ECC 701	VLSI Design	3	-	-	3	-	-	**3**
ECC 702	Internet of Things	3	-	-	3	-	-	**3**
ECC DO701	Department Level Optional Course - III	3	-	-	3	-	-	**3**
ECC DO702	Department Level Optional Course - IV	3	-	-	3	-	-	**3**
ECC IO701	Institute Level Optional Course - I	3	-	-	3	-	-	**3**
ECL701	VLSI Design Lab	-	2			1		**1**
ECL702	Internet of Things Lab	-	2	-	-	1	-	**1**
ECL703	Department Level Optional Course - III Lab	-	2	-	-	1	-	**1**
ECP701	Major Project - I	-	6	-	-	3	-	**3**
Total		**15**	**12**	**-**	**15**	**6**	**-**	**21**

Course Code	Course Name	Examination Scheme							
		Internal Assessment			End Sem Exam	Exam Duration (in Hrs)	TW	Pract/ Oral	Total
		Test 1	Test 2	Av					
ECC 701	VLSI Design	20	20	20	80	03	-	-	**100**
ECC 702	Internet of Things	20	20	20	80	03	-	-	**100**
ECC DO701	Department Level Optional Course - III	20	20	20	80	03	-	-	**100**
ECC DO702	Department Level Optional Course - IV	20	20	20	80	03	-	-	**100**
ECC IO701	Institute Level Optional Course - I	20	20	20	80	03	-	-	**100**
ECL701	VLSI Design Lab	-	-	-	-	-	25	25	**50**
ECL702	Internet of Things Lab	-	-	-	-	-	25	25	**50**
ECL703	Department Level Optional Course - III Lab	-	-	-	-	-	25	25	**50**
ECP701	Major Project - I	-	-	-	-	-	50	-	**50**
Total				**100**	**400**	**-**	**125**	**75**	**700**

Department Level Optional Courses:

Department Level Optional Course -III (DO701)	Department Level Optional Course -IV (DO702)
1. Deep Learning	1. Cloud Computing
2. Image Processing	2. Mobile Communication
3. Big Data Analytics	3. Cyber Security
4. Advanced Database Management Systems	4. BlockChain Technology

Program Structure for Final Year Electronics and Computer Science
UNIVERSITY OF MUMBAI
(With Effect from 2022-2023)

Semester VIII

Course Code	Course Name	Teaching Scheme (Contact Hours)			Credits Assigned			
		TH	PR	Tut	TH	Pract	Tut	Total
ECC 801	Robotics	3	-	-	3	-	-	**3**
ECC DO801	Department Level Optional Course -V	3	-	-	3	-	-	**3**
ECC DO802	Department Level Optional Course -VI	3	-	-	3	-	-	**3**
ECC IO801	Institute Level Optional Course - II	3	-	-	3	-	-	**3**
ECL 801	Robotics Lab	-	2	-	-	1	-	**1**
ECL 802	Department Level Optional Course - V Lab	-	2		-	1		**1**
ECP 801	Major Project II	-	12	-	-	6	-	**6**
Total		**12**	**16**	**-**	**12**	**8**	**-**	**20**

Course Code	Course Name	Examination Scheme							
		Internal Assessment			End Sem Exam	Exam Duration (in Hrs)	TW	Pract/ Oral	Total
		Test 1	Test 2	Av					
ECC 801	Robotics	20	20	20	80	03	-	-	**100**
ECC DO801	Department Level Optional Course -V	20	20	20	80	03	-	-	**100**
ECC DO802	Department Level Optional Course -VI	20	20	20	80	03	-	-	**100**
ECC IO801	Institute Level Optional Course - II	20	20	20	80	03	-	-	**100**
ECL 801	Robotics Lab	-	-	-	-	03	25	25	**50**
ECL 802	Department Level Optional Course - V Lab	-	-	-	-	-	25	25	**50**
ECP 801	Major Project II	-	-	-	-	-	50	100	**150**
	Total			**80**	**320**	**-**	**100**	**150**	**650**

Department Level Optional Courses:

Department Level Optional Course -V (DO801)	Department Level Optional Course -VI (DO802)
1. MEMS Technology	1. Advanced Networking Technologies
2. Natural Language Processing	2. Multimedia and Virtual Reality
3. 3-D Printing and Design	3. Quantum Computing
4. Advanced Algorithms	4. System Security

AC 23/07/2020

Item No. 119

UNIVERSITY OF MUMBAI

Bachelor of Engineering

in

Mechanical Engineering

Second Year with effect from AY 2020-21

Third Year with effect from AY 2021-22

Final Year with effect from AY 2022-23

(REV- 2019 'C' Scheme) from Academic Year 2019 – 20

Under

FACULTY OF SCIENCE & TECHNOLOGY

(As per AICTE guidelines with effect from the academic year 2019–2020)

Semester V

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract.	Theory	Pract.	Total
MEC501	Mechanical Measurements and Controls	3	--	3	--	3
MEC502	Thermal Engineering	3	--	3		3
MEC503	Dynamics of Machinery	3	--	3	--	3
MEC504	Finite Element Analysis	3	--	3	--	3
MEDLO501X	Department Level Optional Course – 1	3	--	3	--	3
MEL501	Thermal Engineering	--	2	--	1	1
MEL502	Dynamics of Machinery	--	2	--	1	1
MEL503	Finite Element Analysis	--	2	--	1	1
MESBL501	Professional communication and ethics –II	--	2*+2	--	2	2
MEPBL501	Mini Project – 2 A	--	4$	--	2	2
Total		**15**	**14**	**15**	**07**	**22**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Prac/ Oral	Total
		Internal Assessment			End Sem Exam	Exam. Duration (in Hrs)			
		Test1	Test2	Avg					
MEC501	Mechanical Measurements and Controls	20	20	20	80	3	--	--	100
MEC502	Thermal Engineering	20	20	20	80	3	--	--	100
MEC503	Dynamics of Machinery	20	20	20	80	3	--	--	100
MEC504	Finite Element Analysis	20	20	20	80	3	--	--	100
MEDLO501X	Department Level Optional Course – 1	20	20	20	80	3	--	--	100
MEL501	Thermal Engineering	--	--	--	--	--	25	--	25
MEL502	Dynamics of Machinery	--	--	--	--	--	25	25	50
MEL503	Finite Element Analysis	--	--	--	--	--	25	25	50
MESBL501	Professional communication and ethics	--	--	--	--	--	25	25	50
MEPBL501	Mini Project – 2 A	--	--	--	--	--	25	25	50
Total		**--**	**--**	**100**	**400**	--	**125**	**100**	**725**

* Theory class to be conducted for full class, $ indicates work load of Learner (Not Faculty), for Mini Project;

SBL – Skill Based Laboratory
PBL – Project Based Learning

Department Level Optional Course – 1

Course Code	Department Level Optional Course – 1
MEDLO5011	Optimization Techniques
MEDLO5012	Design of Experiments
MEDLO5013	Computational Methods

Semester VI

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract/Tut.	Theory	Pract.	Total
MEC601	Machine Design	4	--	4	--	4
MEC602	Turbo Machinery	3	--	3		3
MEC603	Heating Ventilation Air conditioning and Refrigeration	3	--	3	--	3
MEC604	Automation and Artificial Intelligence	3	--	3	--	3
MEDLO602X	Department Level Optional Course – 2	3	--	3	--	3
MEL601	Machine Design	--	2	--	1	1
MEL602	Turbo Machinery	--	2	--	1	1
MEL603	Heating Ventilation Air conditioning and Refrigeration	--	2	--	1	1
MESBL601	Measurements and Automation	--	4	--	2	2
MEPBL601	Mini Project – 2 B	--	4$	--	2	2
Total		**16**	**14**	**16**	**07**	**23**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Prac/ Oral	Total
		Internal Assessment			End Sem Exam	Exam. Duration (in Hrs)			
		Test1	Test2	Avg					
MEC601	Machine Design	20	20	20	80	3	--	--	100
MEC602	Turbo Machinery	20	20	20	80	3	--	--	100
MEC603	Heating Ventilation and Air conditioning	20	20	20	80	3	--	--	100
MEC604	Automation and Artificial Intelligence	20	20	20	80	3	--	--	100
MEDLO602 X	Department Level Optional Course – 2	20	20	20	80	3	--	--	100
MEL601	Machine Design	--	--	--	--	--	25	25	50
MEL602	Turbo Machinery	--	--	--	--	--	25	--	25
MEL603	Heating Ventilation Air conditioning and Refrigeration	--	--	--	--	--	25	25	50
MESBL601	Measurements and Automation	--	--	--	--	--	25	25	50
MEPBL601	Mini Project – 2 B	--	--	--	--	--	25	25	50
Total		**--**	**--**	**100**	**400**	--	**125**	**100**	**725**

$ indicates work load of Learner (Not Faculty), for Mini Project;

SBL – Skill Based Laboratory;
PBL – Project Based Learning

Department Level Optional Course – 2

Course Code	**Department Level Optional Course – 2**
MEDLO6021	Press Tool Design
MEDLO6022	Tool Engineering
MEDLO6023	Metal Forming Technology

Semester VII

	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract. Tut.	Theory	Pract.	Total
MEC701	Design of Mechanical System	3	--	3	--	3
MEC702	Logistics and Supply Chain Management	3	--	3		3
MEDLO703X	Department Level Optional Course – 3	3	--	3	--	3
MEDLO704X	Department Level Optional Course – 4	3	--	3	--	3
MEILO701X	Institute Level Optional Course – I	3	--	3	--	3
MEL701	Design of Mechanical System	--	2	--	1	1
MEL702	Maintenance Engineering	--	2	--	1	1
MEL703	Industrial Soft Skills	--	2	--	1	1
MEP701	Major Project I	--	6#	--	3	3
Total		**15**	**12**	**15**	**6**	**21**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Prac/ Oral	Total
		Internal Assessment			End Sem Exam	Exam. Duration (in Hrs)			
		Test1	Test2	Avg					
MEC701	Design of Mechanical System	20	20	20	80	3	--	--	100
MEC702	Logistics and Supply Chain Management	20	20	20	80	3	--	--	100
MEDLO703X	Department Level Optional Course – 3	20	20	20	80	3	--	--	100
MEDLO704X	Department Level Optional Course – 4	20	20	20	80	3	--	--	100
MEILO701X	Institute Level Optional Course – I	20	20	20	80	3	--	--	100
MEL701	Design of Mechanical System	--	--	--	--	--	25	25	50
MEL702	Maintenance Engineering	--	--	--	--	--	25	25	50
MEL703	Industrial Soft Skills	--	--	--	--	--	25	25	50
MEP701	Major Project I	--	--	--	--	--	50	--	50
Total		**--**	**--**	**100**	**400**	--	**125**	**75**	**700**

# indicates work load of Learner (Not Faculty), for Major Project

Department Level Optional Course – 3

Course Code	Department Level Optional Course – 3
MEDLO7031	Automotive Power Systems
MEDLO7032	Renewable Energy Systems
MEDLO7033	Vehicle Systems

Department Level Optional Course – 4

Course Code	Department Level Optional Course – 4	Course Code	Institute Level Optional Course – 1[#]
MEDLO7041	Machinery Diagnostics		
MEDLO7042	Vibration Controls		
MEDLO7043	Advanced Vibration		

Common with all branches

Semester VIII

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract./Tut.	Theory	Pract.	Total
MEC801	Operations Planning and Control	3	--	3	--	3
MEDLO805X	Department Level Optional Course – 5	3	--	3	--	3
MEDLO806X	Department Level Optional Course – 6	3	--	3	--	3
MEILO802X	Institute Level Optional Course – 2	3	--	3	--	3
MEL801	Product Design and Development	--	2	--	1	1
MEL802	Laboratory based on IoT	--	2	--	1	1
MEP801	Major Project II	--	12#	--	6	6
Total		**12**	**16**	**12**	**8**	**20**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Prac./ Oral	Total
		Internal Assessment			End Sem Exam	Exam. Duration (Hrs)			
		Test1	Test2	Avg					
MEC801	Operations Planning and Control	20	20	20	80	3	--	--	100
MEDLO805X	Department Level Optional Course – 5	20	20	20	80	3	--	--	100
MEDLO806X	Department Level Optional Course – 6	20	20	20	80	3	--	--	100
MEILO802X	Institute Level Optional Course – 2	20	20	20	80	3	--	--	100
MEL801	Product Design and Development	--	--	--	--	--	25	25	50
MEL802	Laboratory based on IoT	--	--	--	--	--	25	25	50
MEP801	Major Project II	--	--	--	--	--	100	50	150
Total		**--**	**--**	**80**	**320**	--	**150**	**100**	**650**

# indicates work load of Learner (Not Faculty), for Major Project

Department Level Optional Course – 5

Course Code	Department Level Optional Course – 5
MEDLO8051	Composite Materials
MEDLO8052	Smart Materials
MEDLO8053	Micro Electro Mechanical Systems

Department Level Optional Course – 6

Course Code	Department Level Optional Course – 6	Course Code	Institute Level Optional Course – 2#
MEDLO8061	Product Design & Development		
MEDLO8062	Product Life Cycle Management		
MEDLO8063	Total Quality Management		

Common with all branches

Mini Project 1 and 2:
Students can form groups with minimum 2 (Two) members and not more than 4 (Four) members
Faculty Load: 1 hour per week per four groups

Major Project 1 and 2:
Students can form groups with minimum 2 (Two) members and not more than 4 (Four) members
Faculty Load: In Semester VII – ½ hour per week per project group
In Semester VIII – 1 hour per week per project group

AC: 29/6/2021
Item No: 6.23

UNIVERSITY OF MUMBAI

Bachelor of Engineering

in

- Artificial Intelligence and Data Science
- Artificial Intelligence and Machine Learning
- Cyber Security
- Internet of Things (IoT)
- Data Engineering
- Computer Science and Engineering (Data Science)
- Computer Science and Engineering (Artificial Intelligence and Machine Learning)
- Computer Science and Engineering (Internet of Things and Cyber Security Including Block Chain Technology)

Second Year with Effect from AY 2021-22

Under

FACULTY OF SCIENCE & TECHNOLOGY

(As per AICTE guidelines with effect from the academic year 2019–2020)

PROGRAM STRUCTURE FOR THIRD YEAR
UNIVERSITY OF MUMBAI (With Effect from 2022-2023)

Semester V

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract.	Theory	Pract.	Total
CSC501	Computer Network	3	--	3	--	3
CSC502	Web Computing	3	--	3		3
CSC503	Artificial Intelligence	3	--	3	--	3
CSC504	Data Warehousing & Mining	3	--	3	--	3
CSDLO501X	Department Level Optional Course- 1	3	--	3	--	3
CSL501	Web Computing and Network Lab	--	2	--	1	1
CSL502	Artificial Intelligence Lab	--	2	--	1	1
CSL503	Data Warehousing & Mining Lab	--	2	--	1	1
CSL504	Business Communication and Ethics-II	--	2*+2	--	2	2
CSM501	Mini Project: 2 A	--	4$	--	2	2
Total		**15**	**14**	**15**	**07**	**22**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Pract &oral	Total
		Internal Assessment			End Sem Exam	Exam. Duration (in Hrs)			
		Test1	Test2	Avg					
CSC501	Computer Network	20	20	20	80	3	-	--	100
CSC502	Web Computing	20	20	20	80	3	--	--	100
CSC503	Artificial Intelligence	20	20	20	80	3	--	--	100
CSC504	Data Warehousing & Mining	20	20	20	80	3	--	--	100
CSDLO501X	Department Level Optional Course- 1	20	20	20	80	3	--	--	100
CSL501	Web Computing and Network Lab	--	--	--	--	--	25	25	50
CSL502	Artificial Intelligence Lab	--	--	--	--	--	25	25	50
CSL503	Data Warehousing & Mining Lab	--	--	--	--	--	25	25	50
CSL504	Business Communication and Ethics-II	--	--	--	--	--	50	--	50
CSM501	Mini Project : 2A	--	--	--	--	--	25	25	50
Total		**--**	**--**	**100**	**400**	--	**150**	**100**	**750**

* Theory class to be conducted for full class and $ indicates workload of Learner (Not Faculty), students can formgroups with minimum 2(Two) and not more than 4(Four). Faculty Load: 1hour per week per four groups.

PROGRAM STRUCTURE FOR THIRD YEAR
UNIVERSITY OF MUMBAI (With Effect from 2022-2023)

Semester VI

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract. Tut.	Theory	Pract.	Total
CSC601	Data Analytics and Visualization	3	--	3	--	3
CSC602	Cryptography and System Security	3	--	3		3
CSC603	Software Engineering and Project Management	3	--	3	--	3
CSC604	Machine Learning	3	--	3	--	3
CSDLO601X	Department Level Optional Course -2	3	--	3	--	3
CSL601	Data Analytics and Visualization Lab	--	2	--	1	1
CSL602	Cryptography & System Security Lab	--	2	--	1	1
CSL603	Software Engineering and Project Management Lab	--	2	--	1	1
CSL604	Machine Learning Lab	--	2	--	1	1
CSL605	Skill base Lab Course: Cloud Computing	--	4	--	2	2
CSM601	Mini Project Lab: 2B	--	4[$]	--	2	2
Total		**15**	**16**	**15**	**08**	**23**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Pract. &oral	Total
		Internal Assessment			End Sem Exam	Exam. Duration (in Hrs)			
		Test 1	Test 2	Avg					
CSC601	Data Analytics and Visualization	20	20	20	80	3	--	--	100
CSC602	Cryptography and System Security	20	20	20	80	3	--	--	100
CSC603	Software Engineering and Project Management	20	20	20	80	3	--	--	100
CSC604	Machine Learning	20	20	20	80	3	--	--	100
CSDLO601X	Department Level Optional Course -2	20	20	20	80	3	--	--	100
CSL601	Data Analytics and Visualization Lab	--	--	--	--	--	25	25	50
CSL602	Cryptography & System Security Lab	--	--	--	--	--	25	--	25
CSL603	Software Engineering and Project Management Lab	--	--	--	--	--	25	-	25
CSL604	Machine Learning Lab						25	25	50
CSL605	Skill base Lab Course: Cloud Computing	--	--	--	--	--	50	25	75
CSM601	Mini Project Lab: 2B	--	--	--	--	--	25	25	50
Total		**--**	**--**	**100**	**400**	--	**175**	**100**	**775**

PROGRAM STRUCTURE FOR THIRD YEAR

UNIVERSITY OF MUMBAI (With Effect from 2022-2023)

DEPARTMENT OPTIONAL COURSES

Department Optional Courses	**Semester**	**Code & Subject**
Department Optional Course -1	V	CSDLO5011 : Statistics for Artificial Intelligence & Data Science CSDLO5012: Advanced Algorithms CSDLO5013: Internet of Things
Department Optional Course -2	VI	CSDLO6011 :High Performance Computing CSDLO6012: Distributed Computing CSDLO6013: Image & Video processing

Program Structure for Fourth Year CSE (AIML), CSE (DS) AI&DS, DE, AI&ML

UNIVERSITY OF MUMBAI (With Effect from 2023-2024)

Semester VII

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract. Tut.	Theory	Pract.	Total
CSC701	Deep Learning	3	--	3	--	3
CSC702	Big Data Analytics	3	--	3		3
CSDO 701X	Department Level Optional Course-3	3	--	3	--	3
CSDO 702X	Department Level Optional Course-4	3	--	3	--	3
ILO 701X	Institute Level Optional Course-1	3	--	3	--	3
CSL701	Deep Learning Lab	--	2	--	1	1
CSL702	Big Data Analytics Lab	--	2	--	1	1
CSDOL 701X	Department Level Optional Course-3 Lab	--	2	--	1	1
CSDOL 702X	Department Level OptionalCourse-4 Lab	--	2	--	1	1
CSP701	Major Project1	--	6#	--	3	3
Total		**15**	**14**	**15**	**7**	**22**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Pract. & oral	Total
		Internal Assessment			End Sem Exam	Exam. Duration (in Hrs)			
		Test 1	Test 2	Avg					
CSC701	Deep Leaning	20	20	20	80	3	--	--	100
CSC702	Big Data Analytics	20	20	20	80	3	--	--	100
CSDO 701X	Department Level Optional Course-3	20	20	20	80	3	--	--	100
CSDO 702X	Department Level Optional Course-4	20	20	20	80	3	--	--	100
ILO 701X	Institute Level Optional Course-1	20	20	20	80	3	--	--	100
CSL701	Deep Leaning Lab	--	--	--	--	--	25	25	50
CSL702	Big Data Analytics Lab	--	--	--	--	--	25	25	50
CSDOL 701X	Department Level Optional Course-3 Lab						25	-	25
CSDOL 702X	Department Level OptionalCourse-4 Lab	--	--	--	--	--	25	-	25
CSP701	Major Project1	--	--	--	--	--	50	25	75
Total		**--**	**--**	**100**	**400**	--	**150**	**75**	**725**

Program Structure for Fourth Year CSE (AIML), CSE (DS) AI&DS, DE, AI&ML

UNIVERSITY OF MUMBAI (With Effect from 2023-2024)

Semester VIII

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Pract. Tut.	Theory	Pract.	Total
CSC801	Advanced Artificial Intelligence	3	--	3	--	3
CSDO 801X	Department Level Optional Course-5	3	--	3	--	3
CSDO 802X	Department Level OptionalCourse-6	3	--	3	--	3
ILO 801X	Institute Level OptionalCourse-2	3	--	3	--	3
CSL801	Advanced Artificial Intelligence Lab	--	2	--	1	1
CSDOL 801X	Department Level Optional Course-5 Lab	--	2	--	1	1
CSDOL 802X	Department Level Optional Course-6 Lab	--	2	--	1	1
CSP801	Major Project-2	--	12#	--	6	6
Total		**12**	**18**	**12**	**9**	**21**

Course Code	Course Name	Examination Scheme							
		Theory					Term Work	Pract & oral	Total
		Internal Assessment			End Sem Exam	Exam Duration (in Hrs)			
		Test 1	Test 2	Avg					
CSC801	Advanced Artificial Intelligence	20	20	20	80	3	--	--	100
CSDO801X	Department Level Optional Course -5	20	20	20	80	3	--	--	100
CSDO 802X	Department Level Optional Course -6	20	20	20	80	3	--	--	100
ILO80X	Institute Level Optional Course-2	20	20	20	80	3	--	--	100
CSL801	Advanced Artificial Intelligence Lab	--	--	--	--	--	25	25	50
CSDOL 801X	Department Level Optional Course -5 Lab	--	--	--	--	--	25	25	50
CSDOL 802X	Department Level Optional Course -6 Lab						25	25	50
CSP801	Major Project 2	--	--	--	--	--	100	50	150
Total		**--**	**--**	**80**	**320**	--	**175**	**125**	**700**

Major Project 1 and 2 :

- Students can form groups with minimum 2 (Two) and not more than 4 (Four)
- Faculty Load : In Semester VII – ½ hour per week per project group
  In Semester VIII – 1 hour per week per project group

Program Structure for Fourth Year CSE (AIML), CSE (DS) AI&DS, DE, AI&ML

UNIVERSITY OF MUMBAI (With Effect from 2023-2024)

Department and Institute Optional Courses and Labs

Semester	**Department/ Institute Optional Courses and Labs**	**Subject and Labs**
VII	Department Optional Course -3	CSDO7011: Natural Language Processing CSDO7012.: AI for Healthcare CSDO7013: Neural Network & Fuzzy System
	Department Optional Lab -3	CSDOL7011: Natural Language Processing Lab CSDOL7012.: AI for Healthcare Lab CSDOL7013: Neural Network & Fuzzy System
	Department Optional Course -4	CSDO7021: User Experience Design with VR CSDO7022: Blockchain Technologies CSDO7023: Game Theory for Data Science
	Department Optional Lab -4	CSDOL7021: User Experience Design with VR Lab CSDOL7022: Blockchain Technologies Lab CSDOL7023: Game Theory for Data Science Lab
	Institute level Optional Courses-I	ILO7011:Product Lifecycle Management ILO7012: Reliability Engineering ILO7013.: Management Information System ILO7014: Design of Experiments ILO7015: Operation Research ILO7016: Cyber Security and Laws ILO7017: Disaster Management & Mitigation Measures ILO7018: Energy Audit and Management ILO7019: Development Engineering

Program Structure for Fourth Year CSE (AIML), CSE (DS) AI&DS, DE, AI&ML

UNIVERSITY OF MUMBAI (With Effect from 2023-2024)

Department and Institute Optional Courses and Labs

Semester	**Department/ Institute Optional Courses and Labs**	**Subject and Labs**
VIII	Department Optional Course -5	CSDO8011: AI for financial & Banking application CSDO8012: Quantum Computing CSDO8013: Reinforcement Learning
	Department Optional Lab -5	CSDOL8011: AI for financial & Banking application Lab CSDOL8012: Quantum Computing Lab CSDOL8013: Reinforcement Learning Lab
	Department Optional Course -6	CSDO8021: Graph Data Science CSDO8022: Recommendation Systems CSDO8023: Social Media Analytic
	Department Optional Lab -6	CSDOL8021: Graph Data Science Lab CSDOL8022: Recommendation Systems Lab CSDOL8023: Social Media Analytic Lab
	Institute level Optional Courses-II	ILO8021: Project Management ILO8022: Finance Management ILO8023: Entrepreneurship Development and Management ILO8024: Human Resource Management ILO8025: Professional Ethics and CSR ILO8026: Research Methodology ILO8027: IPR and Patenting ILO8028: Digital Business Management ILO8029: Environmental Management

AC – 11/07/2022
Item No. – 6.59 (N)

University of Mumbai

Syllabus for

Honours/Minor Degree Programs

in Engineering

(Introduced from the academic year 2022-23)

Manuual for Honours and Minor Degree Programs in Engineering

1. Introduction:

As per the AICTE's Approval Process Handbook-2020-21: Chapter VII- clause 7.3.2 (Page 99-101), all branches of Engineering and Technology shall offer Elective Courses in the EMERGING AREAS viz., Artificial Intelligence (AI), Internet of Things (IoT), Blockchain, Robotics, Quantum Computing, Data Sciences, Cyber Security, 3D Printing and Design, Augmented Reality/ Virtual Reality (AR/VR), as specified in Annexure 1 of the Approval Process Handbook.

a) Under Graduate Degree Courses in EMERGING AREAS shall be allowed as specialization from the same Department. The minimum additional Credits for such Courses shall be in the range of 18-20 and the same shall be mentioned in the degree, as specialization in that particular area. For example, doing extra credits for Robotics in Mechanical Engineering shall earn B.E./ B.Tech. (Honours.) Mechanical Engineering with specialization in Robotics

b) Minor specialization in EMERGING AREAS in Under Graduate Degree Courses may be allowed where a student of another Department shall take the minimum additional Credits in the range of 18-20 and get a degree with minor from another Department.

It is also made very clear by AICTE that areas in which Minor Degree/Honours may be offered are numerous. It is up to the Universities with the help of their Academic Board/Council to decide whether Minor Degree/Honours. is to be offered or not in any particular area, which is not mentioned above. AICTE approval is not required for offering Minor Degree/Honours. in any such area, however the criteria that "Minor Degree or Honours. will cumulatively require additional 18 to 20 credits in the specified area in addition to the credits essential for obtaining the Under Graduate Degree in Major Discipline (i.e. 160 credits)"

2. Proposed Honours and Minor Degree:

Honours and Minor degree program is introduced in order to facilitate the students to choose additionally the specialized courses in the emerging areas of their choice and build their competence in such domains. Based on AICTE guidelines, the Faculty of Science and Technology has proposed to offer following Honours/ Minor degree program corresponding to each engineering program:

Table 1: Honours / Minor Degree Programs

Sr. No	Honours/Minor degree programs
1	Infrastructure Engineering
2	Smart Cities
3	Waterways Transport Engineering
4	Professional Practices in Structural Engineering
5	Green Technology and Sustainability Engineering
6	Infrastructure Policies & Regulations
7	Artificial Intelligence and Machine Learning

8	Blockchain
9	Cyber Security
10	Augmented Reality and Virtual Reality
11	Data Science
12	Internet of Things (IoT)
13	Waste Technology
14	Electric Vehicles
15	Microgrid Technologies
16	Robotics
17	3D Printing
18	Industrial Automation

The Honours and Minor degree programs selection for each of the engineering programs offered in University of Mumbai is as given in next section.

3. Mapping with Engineering/Technology Programs in University of Mumbai

Honour's/Minors degree program is being introduced by the Faculty of Science and Technology of University of Mumbai in order to facilitate the students to choose additionally the specialized courses in the emerging areas of their choice and build their competence in such domains. As per AICTE guidelines, Honours/Minors degree program to be chosen by eligible students (based on certain criteria given in manual) studying in third year of various Engineering program's are elaborated in **Table 2** to bring clarity to all stakeholders including students, faculty members and institutions. **Each eligible student can opt for maximum one Honour's or one Minor Programs at any time.**

Table 2: Honours and Minor Degree Program Mapping with Engineering Programs

	Honours / Minor Degree Programs	Programs who can offer this as the Honours Degree Program	Programs who can offer this as the Minor Degree program
Row	**Column A**	**Column B**	**Column C**
1	**Infrastructure Engineering**	**Civil Engineering**	1. Mechanical Engineering 2. Production Engineering 3. Automobile Engineering 4. Mechatronics Engineering 5. Printing and Packaging Technology 6. Electrical Engineering 7. Chemical Engineering 8. Electronics and Telecomm. Engineering 9. Electronics Engineering 10. Computer Engineering 11. Information Technology 12. Instrumentation Engineering 13. Electronics and Computer Science 14. Artificial Intelligence & Data Science 15. Cyber Security 16. Computer Science and Engineering (Artificial Intelligence & Machine Learning) 17. Computer Science and Engineering (Internet of Things & Cyber Security including Blockchain) 18. Computer Science and Engineering (Data Science) 19. Artificial Intelligence & Machine Learning 20. Data Engineering 21. Internet of Things 22. Computer Science and Design

2	**Smart Cities**	**Civil Engineering**	1. Civil and Infrastructure Engineering 2. Mechanical Engineering 3. Production Engineering 4. Automobile Engineering 5. Mechatronics Engineering 6. Printing and Packaging Technology 7. Electrical Engineering 8. Chemical Engineering 9. Electronics and Telecomm. Engineering 10. Electronics Engineering 11. Computer Engineering 12. Information Technology 13. Instrumentation Engineering 14. Electronics and Computer Science 15. Artificial Intelligence & Data Science 16. Cyber Security 17. Computer Science and Engineering (Artificial Intelligence & Machine Learning) 18. Computer Science and Engineering (Internet of Things & Cyber Security including Blockchain) 19. Computer Science and Engineering (Data Science) 20. Artificial Intelligence & Machine Learning 21. Data Engineering 22. Internet of Things 23. Computer Science and Design
3	**Waterways Transport Engineering**	**Civil Engineering**	1. Civil and Infrastructure Engineering 2. Mechanical Engineering 3. Production Engineering 4. Automobile Engineering 5. Mechatronics Engineering 6. Printing and Packaging Technology 7. Electrical Engineering 8. Chemical Engineering 9. Electronics and Telecomm. Engineering 10. Electronics Engineering 11. Computer Engineering 12. Information Technology 13. Instrumentation Engineering 14. Electronics and Computer Science 15. Artificial Intelligence & Data Science 16. Cyber Security 17. Computer Science and Engineering (Artificial Intelligence & Machine Learning) 18. Computer Science and Engineering (Internet of Things & Cyber Security including Blockchain) 19. Computer Science and Engineering (Data Science) 20. Artificial Intelligence & Machine Learning 21. Data Engineering

			22. Internet of Things 23. Computer Science and Design
4	**Professional Practices in Structural Engineering**	**Civil Engineering**	1. Civil and Infrastructure Engineering 2. Mechanical Engineering 3. Production Engineering 4. Automobile Engineering 5. Mechatronics Engineering 6. Printing and Packaging Technology 7. Electrical Engineering 8. Chemical Engineering 9. Electronics and Telecomm. Engineering 10. Electronics Engineering 11. Computer Engineering 12. Information Technology 13. Instrumentation Engineering 14. Electronics and Computer Science 15. Artificial Intelligence & Data Science 16. Cyber Security 17. Computer Science and Engineering (Artificial Intelligence & Machine Learning) 18. Computer Science and Engineering (Internet of Things & Cyber Security including Blockchain) 19. Computer Science and Engineering (Data Science) 20. Artificial Intelligence & Machine Learning 21. Data Engineering 22. Internet of Things 23. Computer Science and Design
5	**Green Technology and Sustainability Engineering**	**1 Civil Engineering** **2 Chemical Engineering** **3 Printing and Packaging Technology**	1. Civil and Infrastructure Engineering 2. Mechanical Engineering 3. Production Engineering 4. Automobile Engineering 5. Mechatronics Engineering 6. Electrical Engineering 7. Electronics and Telecomm. Engineering 8. Electronics Engineering 9. Computer Engineering 10. Information Technology 11. Instrumentation Engineering 12. Electronics and Computer Science 13. Artificial Intelligence & Data Science 14. Cyber Security 15. Computer Science and Engineering (Artificial Intelligence & Machine Learning) 16. Computer Science and Engineering (Internet of Things & Cyber Security including Blockchain) 17. Computer Science and Engineering (Data Science) 18. Artificial Intelligence & Machine Learning 19. Data Engineering

			20. Internet of Things 21. Computer Science and Design
6	**Infrastructure Policies & Regulations**	**Civil and Infrastructure Engineering**	1. Civil Engineering 2. Mechanical Engineering 3. Production Engineering 4. Automobile Engineering 5. Mechatronics Engineering 6. Printing and Packaging Technology 7. Electrical Engineering 8. Chemical Engineering 9. Electronics and Telecomm. Engineering 10. Electronics Engineering 11. Computer Engineering 12. Information Technology 13. Instrumentation Engineering 14. Electronics and Computer Science 15. Artificial Intelligence & Data Science 16. Cyber Security 17. Computer Science and Engineering (Artificial Intelligence & Machine Learning) 18. Computer Science and Engineering (Internet of Things & Cyber Security including Blockchain) 19. Computer Science and Engineering (Data Science) 20. Artificial Intelligence & Machine Learning 21. Data Engineering 22. Internet of Things 23. Computer Science and Design
7	**Artificial Intelligence and Machine Learning**	**1 Computer Engineering** **2 Electronics and Telecomm. Engineering** **3 Electronics Engineering** **4 Information Technology** **5 Electronics and Computer Science** **6 Mechatronics Engineering** **7 Computer Science and Engineering (Internet of Things & Cyber Security including Blockchain)** **8 Cyber Security** **9 Computer Science and Engineering (Data Science)** **10 Internet of Things** **11 Data Engineering** **12 Computer Science and Design**	1. Civil Engineering 2. Civil and Infrastructure Engineering 3. Mechanical Engineering 4. Production Engineering 5. Automobile Engineering 6. Printing and Packaging Technology 7. Electrical Engineering 8. Chemical Engineering 9. Instrumentation Engineering 10. Biomedical Engineering

8	**Blockchain**	**1 Computer Engineering** **2 Electronics and Telecomm. Engineering** **3 Electronics Engineering** **4 Information Technology** **5 Electronics and Computer Science** **6 Artificial Intelligence & Data Science** **7 Cyber Security** **8 Computer Science and Engineering (Artificial Intelligence & Machine Learning)** **9 Computer Science and Engineering (Data Science)** **10 Internet of Things** **11 Data Engineering** **12 Computer Science and Design** **13 Artificial Intelligence & Machine Learning**	1. Civil Engineering 2. Civil and Infrastructure Engineering 3. Mechanical Engineering 4. Production Engineering 5. Automobile Engineering 6. Mechatronics Engineering 7. Printing and Packaging Technology 8. Electrical Engineering 9. Chemical Engineering 10. Instrumentation Engineering 11. Biomedical Engineering
9	**Cyber Security**	**1 Computer Engineering** **2 Electronics and Telecomm. Engineering** **3 Electronics Engineering** **4 Information Technology** **5 Electronics and Computer Science** **6 Artificial Intelligence & Data Science** **7 Computer Science and Engineering (Artificial Intelligence & Machine Learning)** **8 Computer Science and Engineering (Data Science)** **9 Internet of Things** **10 Artificial Intelligence & Machine Learning** **11 Data Engineering** **12 Computer Science and Design**	1. Civil Engineering 2. Civil and Infrastructure Engineering 3. Mechanical Engineering 4. Production Engineering 5. Automobile Engineering 6. Mechatronics Engineering 7. Printing and Packaging Technology 8. Electrical Engineering 9. Chemical Engineering 10. Instrumentation Engineering 11. Biomedical Engineering
10	**Augmented Reality and Virtual Reality**	**1 Computer Engineering** **2 Electronics and Telecomm. Engineering** **3 Electronics Engineering** **4 Information Technology** **5 Electronics and Computer Science** **6 Computer Science and Engineering (Internet of Things & Cyber Security including Blockchain)** **7 Artificial Intelligence & Data Science** **8 Cyber Security** **9 Computer Science and Engineering (Artificial Intelligence & Machine Learning)** **10 Computer Science and Engineering (Data Science)** **11 Internet of Things**	1. Civil Engineering 2. Civil and Infrastructure Engineering 3. Mechanical Engineering 4. Production Engineering 5. Automobile Engineering 6. Mechatronics Engineering 7. Printing and Packaging Technology 8. Electrical Engineering 9. Chemical Engineering 10. Instrumentation Engineering 11. Biomedical Engineering

		12 Artificial Intelligence & Machine Learning **13 Data Engineering** **14 Computer Science and Design**	
11	**Data Science**	**1 Computer Engineering** **2 Electronics and Telecomm. Engineering** **3 Electronics Engineering** **4 Information Technology** **5 Electronics and Computer Science** **6 Mechanical Engineering** **7 Production Engineering** **8 Automobile Engineering** **9 Computer Science and Engineering (Internet of Things & Cyber Security including Blockchain)** **10 Cyber Security** **11 Computer Science and Engineering (Artificial Intelligence & Machine Learning)** **12 Internet of Things** **13 Artificial Intelligence & Machine Learning** **14 Electrical Engineering** **15 Computer Science and Design**	1. Civil Engineering 2. Civil and Infrastructure Engineering 3. Mechatronics Engineering 4. Printing and Packaging Technology 5. Chemical Engineering 6. Instrumentation Engineering 7. Biomedical Engineering
12	**Internet of Things (IoT)**	**1. Computer Engineering** **2. Electronics and Telecomm. Engineering** **3 Electronics Engineering** **4 Information Technology** **5 Electronics and Computer Science** **6 Electrical Engineering** **7 Mechanical Engineering** **8 Production Engineering** **9 Automobile Engineering** **10 Mechatronics Engineering** **11 Artificial Intelligence & Data Science** **12 Cyber Security** **13 Computer Science and Engineering (Artificial Intelligence & Machine Learning)** **14 Computer Science and Engineering (Data Science)** **15 Artificial Intelligence & Machine Learning** **16 Data Engineering** **17 Computer Science and Design**	1. Civil Engineering 2. Civil and Infrastructure Engineering 3. Printing and Packaging Technology 4. Chemical Engineering 5. Instrumentation Engineering 6. Biomedical Engineering

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class: S.E. E.C.S.	**Room Number: 307**
Class Teacher: Prof. Dipali Koshti	**With Effect From: 8th August 2022 to 30th October 2022**

	08.45 a.m.-9.45 a.m.	9.45a.m.-10.45 a.m.		11:00 a.m. – 12:00 p.m.	12:00 p.m.-1:00 p.m.		1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.	3.30 p.m.-4.30 p.m..	
Monday	DBMS DK	ED JM	**BREAK**	DBMS / OOPM / ED / DSA A / B / C / D DK / PKB / JM / AL		**LUNCH BREAK**	DSA AL			
Tuesday	DSA AL	EM-III PVS		DSA / OOPM / DBMS / OOPM A / B / C / D AL / PKB / DK / BJ			DE SJP	ED JM		
Wednesday	DE / OOPM / OOPM / ED C / D / A / B KN / BJ / SJP / JM			DSA AL	EM-III PVS		DBMS / DE / DSA / OOPM D / A / B / C DK / KN / AL / PKB			
Thursday	EM-III PVS	DE SJP		ED / DBMS / OOPM / DE A / B / C / D JM / DK / PKB / KN			DBMS DK	EM-III(T) PVS		
Friday	DE / DSA / ED / OOPM B / C / D / A KN / AL / JM / SJP			DE SJP	DBMS DK		ED JM	**Activity Based Sessions**		

Subject Abbreviation					
EM-III	Engineering Mathematics-III	ED	Electronic Devices	DE	Digital Electronics
DSA	Data Structures and Algorithm	DBMS	Database Management System		
Faculty Abbreviation					
JM	Prof. Jayen Modi	KN	Prof. K. Narayanan	PKB	Prof. Prajkta Bhangale
DK	Prof. Dipali Koshti	AL	Prof. Archana Lopes	SJP	Prof. Shilpa Patil
BJ	Prof. Binsy Joseph				

(Dr. S.S. Rathod)
Principal

(Dr. Sapna Prabhu)
H.O.D. (Electronics and Computer Science)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class: T.E. E.C.S.												Room Number: 306
Class Teacher: Prof. Archana Lopes												With Effect From: 8th August 2022 to 30th October 2022
	08.45 a.m.-9.45 a.m.	9.45a.m.-10.45 a.m.		11:00 a.m. – 12:00 p.m.	12:00 p.m.-1:00 p.m.		1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.	3.30 p.m.-4.30 p.m..		
Monday	STQA AL	WT VVG	BREAK	SE VVG	COA SUP	LUNCH BREAK	CE BJ	CE A BJ	SEWT B VVG	STQA C KN	MP D	
Tuesday	HONORS*	CE BJ		BCE JR	SE VVG		CE C BJ	SEWT D VVG	STQA A AL	MP B		
Wednesday	HONORS*	WT VVG		STQA AL	BCE JR		COA SUP	BCE A/B/C/D JR				
Thursday	HONORS*	WT VVG		CE BJ	SE VVG		CE D BJ	SEWT A VVG	STQA B KN	MP C		
Friday	HONORS*	COA SUP		CE B BJ	SEWT C VVG	STQA D AL	MP A	STQA AL	Activity Based Learning			

Subject Abbreviation					
CE	Communication Engineering	COA	Computer Organization and Architecture	SE	Software Engineering
WT	Web Technologies	BCE	Business Communication and Ethics	STQA	Software Testing and Quality Assurance
Faculty Abbreviation					
SUP	Dr. Sapna Prabhu	VVG	Prof. Vaibhav Godbole	AL	Prof. Archana Lopes
BJ	Prof. Binsy Joseph	KN	Prof. K. Narayanan	JR	Dr. Joseph Rodrigues

- Note: Classrooms for Honors Program- BCT- 501/CSL- 306/DS- 801/AIML- 811/ROBOTICS- 406/ 3-D Printing -706

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Principal

(Dr. Sapna Prabhu)
H.O.D. (Electronics and Computer Science)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : B.E. E.C.S.											Room Number: 302				
Class Teacher: Prof. Prajkta Bhangale											With Effect From: 8th August 2022 to 30th October 2022				
	08.45 a.m.-9.45 a.m.		9.45a.m.-10.45 a.m.		11:00 a.m. – 12:00 p.m.	12:00 p.m.-1:00 p.m.		1.30 p.m.-2.30 p.m.		2.30 p.m.-3.30 p.m.	. 3.30 p.m.-4.30 p.m..	
Monday	VLSI A DVB	IoT B SUP	BDA C PKB	BREAK	PROJECT DAY		LUNCH BREAK	PROJECT DAY				
Tuesday	VLSI D DVB	IoT A SJP	BDA B VVG		VLSI DVB	IOT SUP		MIS/OR/CSL JM/VSB/UL 302/		BDA/DL PKB/DK 302/306		
Wednesday			BDA/DL PKB/DK 302/307		IOT SUP	BCT/CC PKB/JM 309/302		MIS/OR/CSL JM/VSB/UL 302/				
Thursday	VLSI B DVB	IoT C SUP	DL D DK		IOT SUP	VLSI DVB		MIS/OR/CSL JM/VSB/UL 302/		BCT/CC PKB/JM 307/302		
Friday			BDA/DL PKB/DK 302/307		VLSI DVB	BCT/CC PKB/JM 306/302		VLSI C DVB	IoT D SUP	BDA A VVG		

Subject Abbreviation					
VLSI	VLSI Design	IoT	Internet of Things	BDA	Big Data Analysis
DL	Deep Learning	CC	Cloud Computing	BCT	Blockchain Technology
MIS	Management Information System	OR	Operation Research	CSL	Cyber Security and Laws
Faculty Abbreviation					
SUP	Dr. Sapna Prabhu	DVB	Dr. D.V. Bhoir	DK	Prof. Dipali Koshti
JM	Prof. Jayen Modi	PKB	Prof. Prajkta Bhangale	SJP	Prof. Shilpa Patil
VVG	Prof. Vaibhav Godbole				

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H.O.D. (Electronics and Computer Science)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : S.E. COMPUTER(A)											**Room Number: 506**	
Class Teacher: Prof. Parshvi Shah											**With Effect From: 8th August 2022 to 30th October 2022**	
	08.45 a.m.-9.45 a.m.	9.45a.m.-10.45 a.m.		11:00 a.m. – 12:00 p.m.	12:00 p.m.-1:00 p.m.		1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.	3.30 p.m.-4.30 p.m...	
Monday	OOPM PS	DLCOA HP	**B R E A K**	DS PMD	DiS SSK	**L U N C H B R E A K**	DS A KPD	DLCOA B HP	CG C SFN	OOPM D PS		
Tuesday	EM III PNL	CG SFN		DS PMD	DLCOA HP		DS D PMD	DLCOA A HP	CG B SFN	OOPM C PS		
Wednesday		OOPM PS		CG SFN	EM III PNL		DS C PMD	DLCOA D HP	CG A SFN	OOPM B PS		
Thursday	EM III PNL	DS PMD		DiS SSK	CG SFN		DS B PMD	DLCOA C HP	CG D SFN	OOPM A PS		
Friday		EM III (Tut) PNL		DLCOA HP	DiS SSK				**Activity Based Session**			

Subject Abbreviation					
OOPM	Object Oriented Programming Methodology	DLCOA	Digital Logic and Computer Organization & Architecture	DS	Data Structures
EM III	Engineering Mathematics III	CG	Computer Graphics	DiS	Discrete Structures
Faculty Abbreviation					
PS	Prof. Parshvi Shah	HP	Prof. Heena Pendhari	SSK	Prof. Supriya Kamoji
SFN	Prof. Sushma Nagdeote	PMD	Prof. Prajakta Dhamanskar	MNS	Prof. Monali Shetty

(Dr. S.S. Rathod)
Principal

(Dr. Sujata Deshmukh)
H.O.D. (Computer Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : S.E. COMPUTER(B)	Room Number: 607
Class Teacher: Prof. Heenakausar Pendhari	With Effect From: 8th August 2022 to 30th October 2022

	08.45 a.m.- 9.45 a.m.		9.45a.m.- 10.45 a.m.			11:00 a.m. – 12:00 p.m.	12:00 p.m.- 1:00 p.m.		1.30 p.m.- 2.30 p.m.	2.30 p.m.- 3.30 p.m.	3.30 p.m.- 4.30 p.m...	
Monday	CG SFN		DiS SSK		BREAK	OOPM PS	DLCOA HP	LUNCH BREAK	DS PD	EM III PVS		
Tuesday	OOPM A PKP	DS B PMD	DLCA C SAP	CG D SSK		DiS SSK	OOPM PS		EM III PVS	CG SFN		
Wednesday	DLCA A SAP	CG B SSK	OOPM C PKP	DS D AAP		DS PMD	DLCOA HP		DiS SSK			
Thursday	CG A SSK	OOPM B PKP	DS C AAP	DLCA D SAP		CG SFN	DLCOA HP		EM III PVS			
Friday	DS A KPD	DLDA B SAP	CG C SSK	OOPM D PKP		EM III (Tut) PVS	DS PMD			Activity Based Session		

Subject Abbreviation					
OOPM	Object Oriented Programming Methodology	DLCOA	Digital Logic and Computer Organization & Architecture	DS	Data Structures
EM III	Engineering Mathematics III	CG	Computer Graphics	DiS	Discrete Structures

Faculty Abbreviation					
PS	Prof. Parshvi Shah	HP	Prof. Heena Pendhari	SSK	Prof. Supriya Kamoji
SFN	Prof. Sushma Nagdeote	PMD	Prof. Prajakta Dhamanskar	KPD	Prof. Kalpana Deorukhkar
SAP	Prof. Sangeeta Parshionikar	PKP	Prof. Prachi Patil	AAP	Prof. Ashwini Pansare
KKW	Prof. Kranti Wagle	JN	Prof. Jagruti Nagoankar		

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Principal

(Dr. Sujata Deshmukh)
H.O.D.(Computer Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : T.E. COMPUTER(A)									**Room Number: 811**					
Class Teacher: Prof. Prachi Patil									**With Effect From: 8th August 2022 to 30th October 2022**					
	08.45 a.m.-9.45 a.m.	9.45a.m.-10.45 a.m.		11:00 a.m. – 12:00 p.m.		12:00 p.m.-1:00 p.m.			1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.		3.30 p.m.-4.30 p.m...		
Monday	TCS SAP	CN MT	**B R E A K**	IP PKP		BCE JR		**L U N C H B R E A K**	DWM SPD	SE A BSD	CN B MT	DWM C KKW	MP D	
Tuesday	HONORS*	DWM SPD		SE B BSD	CN C JN	DWM D SPD	MP A		CN MT	SE BSD				
Wednesday	HONORS*	SE BSD		IP PP		CN MT			TCS SAP	DWM SPD				
Thursday	HONORS*	SE BSD		SE D BSD	CN A JN	DWM B SPD	MP C		TCS SAP	BCE (Pract) A/B/C/D				
Friday	HONORS*	BCE JR		SE C BSD	CN D MT	DWM A SPD	MP B		IP PKP	**Activity Based Session**				

Subject Abbreviation					
DWM	Dataware Housing and Mining	SE	Software Engineering	IP	Internet Programming
CN	Computer Networks	BCE	Business Communication and Ethics	TCS	Theory of Computer Science
Faculty Abbreviation					
SPD	Dr. Sujata Deshmukh	MT	Prof. Merly Thomas	PKP	Prof. Prachi Patil
BSD	Dr. Brijmohan Daga	SAP	Prof. Sangeeta Parshionikar	KKW	Prof. Kranti Wagle

- Note: Classrooms for Honors Program- BCT- 501/CSL- 306/DS- 801/AIML- 811/ROBOTICS- 406/ 3-D Printing -706

(Dr. S.S. Rathod)
Principal

(Dr. Sujata Deshmukh)
H.O.D. (Computer Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class: T.E. COMPUTER(B)											Room Number: 606
Class Teacher: Prof. Jagruti Nagaonkar											With Effect From: 8th August 2022 to 30th October 2022
	08.45 a.m.-9.45 a.m.	9.45a.m.-10.45 a.m.		11:00 a.m. – 12:00 p.m.	12:00 p.m.-1:00 p.m.		1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.	3.30 p.m.-4.30 p.m...	
Monday	CN JN	BCE JR	BREAK	DWM KKW	SE AAP	LUNCH BREAK	TCS SAP	BCE Practical (A/B/C/D)		
Tuesday	HONORS*	SE AAP		IP PKP	DWM KKW		SE CN DWM MP B C D A AAP JN KKW			
Wednesday	HONORS*	CN JN		SE AAP	TCS SAP		SE CN DWM MP C D A B AAP JN KKW			
Thursday	HONORS*	BCE JR		IP PKP	TCS SAP		SE CN DWM MP A B C D AAP JN KKW			
Friday	HONORS*	IP PKP		CN JN	DWM KKW		SE CN DWM MP D A B C AAP JN KKW			

Subject Abbreviation					
DWM	Dataware Housing and Mining	SE	Software Engineering	IP	Internet Programming
CN	Computer Networks	BCE	Business Communication and Ethics	TCS	Theory of Computer Science
Faculty Abbreviation					
KKW	Prof. Kranti Wagle	AAP	Prof. Ashwini Pansare	PKP	Prof. Prachi Patil
JN	Prof. Jagruti Nagaonkar	SAP	Prof. Sangeeta Parshionikar	RSP	Prof. Roshni Padate

- Note: Classrooms for Honors Program- BCT- 501/CSL- 306/DS- 801/AIML- 811/ROBOTICS- 406/ 3-D Printing -706

(Dr. S.S. Rathod)
Principal

(Dr. Sujata Deshmukh)
H.O.D. (Computer Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : B.E. COMPUTER(A)											Room Number: 707			
Class Teacher: Prof. Unik Lokhande											With Effect From: 8th August 2022 to 30th October 2022			
	08.45 a.m.-9.45 a.m.		9.45a.m.-10.45 a.m.			11:00 a.m. – 12:00 p.m.		12:00 p.m.-1:00 p.m.			1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.	3.30 p.m.-4.30 p.m...	
Monday	NLP	BCT	BDA	ML		ML	NLP	BCT	BDA					
	A	B	C	D		A	B	C	D					
	UL	MNS	N1	SKS		SKS	UL	MNS	N1					
Tuesday	NLP KPD		BDA N1			ML SKS		BCT MNS			MIS/OR/CSL N2/VSB/UL 707/706/701			
Wednesday	NLP KPD		ML SKS			BCT MNS		BDA N1			MIS/OR/CSL N2/VSB/UL 707/706/701			
Thursday	NLP KPD		ML SKS			BCT	BDA	ML	NLP		MIS/OR/CSL N2/VSB/UL 707/706/701			
						A	B	C	D					
						MNS	N2	RSP	UL					
Friday			BDA N1			BDA	ML	NLP	BCT		BCT MNS			
						A	B	C	D					
						N1	RSP	UL	MNS					

BREAK **LUNCH BREAK**

Subject Abbreviation					
NLP	Natural Language Processing	BCT	Blockchain Technology	ML	Machine Learning
BDA	Big Data Analytics	MIS	Management Information System	OR	Operation Research
CSL	Cyber Security and Laws				
Faculty Abbreviation					
UL	Prof. Unik Lokhande	MNS	Prof. Monali Shetty	SKS	Dr. Sunil Surve
KPD	Prof. Kalpana Deorukhkar	N1	New Faculty 1		

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H.O.D. (Computer Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : B.E. COMPUTER(B)											Room Number: 701			
Class Teacher: Prof. Monica Khanore											With Effect From: 8th August 2022 to 30th October 2022			
	08.45 a.m.-9.45 a.m.		9.45a.m.-10.45 a.m.			11:00 a.m. – 12:00 p.m.		12:00 p.m.-1:00 p.m.			1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.	3.30 p.m.-4.30 p.m...	
Monday	ML	NLP	BCT	BDA	**B R E A K**	BDA	ML	NLP	BCT	**L U N C H B R E A K**				
	A	B	C	D		A	B	C	D					
	RSP	KPD	MTK	N2		N2	RSP	KPD	MTK					
Tuesday	BDA N2		NLP KPD			NLP	BCT	BDA	ML		MIS/OR/CSL N2/VSB/UL 707/706/701	ML RSP		
						A	B	C	D					
						UL	MTK	N2	RSP					
Wednesday	BCT MTK		NLP KPD			BCT	BDA	ML	NLP		MIS/OR/CSL N2/VSB/UL 707/706/701			
						A	B	C	D					
						MTK	N2	RSP	UL					
Thursday	BDA N2		NLP KPD			ML RSP		BCT MTK			MIS/OR/CSL N2/VSB/UL 707/706/701			
Friday						BDA N2		ML RSP			BCT MTK			

Subject Abbreviation					
NLP	Natural Language Processing	BCT	Blockchain Technology	ML	Machine Learning
BDA	Big Data Analytics	OR	Operation Research	CSL	Cyber Security and Laws
MIS	Management Information System				
Faculty Abbreviation					
RSP	Prof. Roshni Padate	UL	Prof. Unik Lokhande	MTK	Prof. Monika Khanore
KPD	Prof. Kalpana Deorukhkar				

(Dr. S.S. Rathod)
Principal

(Dr. Sujata Deshmukh)
H.O.D. (Computer Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : S.E. (AI&DS)	Room Number: 806
Class Teacher: Prof. Swapnali Makdey	With Effect From: 8th August 2022 to 30th October 2022

	08.45a.m.-9.45 a.m.	9.45 a.m.-10.45 a.m.		11:00 a.m. – 12:00p.m.	12:00p.m.-1:00p.m.		1.30pm-2.30pm	2.30pm-3.30pm	3.30 p.m.-4.30 p.m..	
Monday	EM III PVS	CG GBT	**BREAK**	DLCA A SAM	CG B GBT	DS C JKS	JAVA D SMR	**LUNCH BRREAK**	DLCA SAM			
Tuesday	DS PD	CG GBT		DSGT SMD		JAVA SMR			CG A GBT	DS B JKS	JAVA C PD	DLCA D SAM
Wednesday	DS PD	EM III PVS		DSGT SMD		CG GBT			DS A JKS	JAVA B PD	DLCA C SAM	CG D GBT
Thursday	DS PD	JAVA SMR		EM III PVS		DLCA SAM			MINI PROJECT			
Friday	DLCA SAM	DSGT SMD		JAVA A SKK	DLCA B SAM	CG C GBT	DS D JKS		EM III PVS	Activity Based Session		

Subject Abbreviation

DS	Data Structure	CG	Computer Graphics	EM-III	Engineering Mathematics
JAVA	JAVA Programming-OOPM	DSGT	Discrete Structures and Graph Theory	DLCA	Digital Logic and Computer Architecture

Faculty Abbreviation

SAM	Prof. Swapnali Makdey	SMD	Prof. Sarika Davare	GBT	Prof. Garima Tripathi
SMR	Prof. Swati Ringe	JKS	Dr. Jagruti Save	SKK	Prof. Saurabh Kulkarni
PD	Prof. Prachi Desai	PS	Prof. Pradeep Singh		

(Dr. S.S. Rathod)
Principal

(Dr. Jagruti Save)
H.O.D. (Artificial Intelligence and Data Science)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : T.E. (AI&DS)	Room Number: 801
Class Teacher: Prof. Sarika Davare	With Effect From: 8th August 2022 to 30th October 2022

	8.45a.m.-9.45 a.m.	9.45 a.m.-10.45 a.m.	BREAK	11:00 a.m. – 12:00p.m.	12:00p.m.-1:00p.m.	LUNCH BREAK	1.30pm-2.30pm	2.30pm-3.30pm	3:30pm-4:30pm
Monday	CN SAM	WT SMR		DWM SMD	AI SKK		AI / DWM / WCN / MP A / B / C / D SKK / SMD / SMR /		
Tuesday	HONORS*	AI SKK		CN SAM	IOT/STATISTICS GBT/JKS 801/811		DWM SMD	BCE(pract) A,B,C,D JR	
Wednesday	HONORS*	CN SAM		WT / MP A / B SMR /	AI / DWM C / D SKK / SMD		BCE JR	WT SMR	
Thursday	HONORS*	DWM SMD		MP / AI A / B / SKK	DWM / WT C / D SMD / SMR		IOT/STATISTICS GBT/JKS 801/806	DWM / WT / MP / AI A / B / C / D SMD / SMR / / SKK	
Friday	HONORS*	IOT/STATISTICS GBT/JKS 801/607		BCE JR	WT SMR		AI SKK	Activity based Session	

Subject Abbreviation

AI	Artificial Intelligence	WC	Web Computing	CN	Computer Network
DWM	Data Warehousing and Mining	Statistics	Statistics for AI & DS	IOT	Internet of Things
BCE	Business Communication and Ethics	WCN	Web computing and Network Lab	MP	Mini Project

Faculty Abbreviation

SKK	Prof. Saurabh Kulkarni	SMR	Prof. Swati Ringe	SAM	Prof. Swapnali Makdey
JKS	Prof. Jagruti Save	GBT	Prof. Garima Tripathi	SMD	Prof. Sarika Davare
JR	Prof. Joseph Rodrigues				

- Note: Classrooms for Honors Program- BCT- 501/CSL- 306/DS- 801/AIML- 811/ROBOTICS- 406/ 3-D Printing -706

(Dr. S.S. Rathod)
Principal

(Dr. Jagruti Save)
H.O.D. (Artificial Intelligence and Data Science)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : S.E. MECHANICAL						**Room Number: 407**					
Class Teacher: Prof. Deepika Singh						**With Effect From: 8th August 2022 to 30th October 2022**					
	08.45 a.m.-9.45 a.m.	9.45a.m.-10.45 a.m.		11:00 a.m. – 12:00 p.m.	12:00 p.m.-1:00 p.m.		1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.	3:30 p.m.-4:30 p.m.		
Monday	PP VBR	EM PNL	**B R E A K**	SOM DS	TD VSJ	**L U N C H B R E A K**	MT A VS	CAMD B ANT	W/S C		
Tuesday	PP VBR	MT VS		EM PNL	SOM DS		MT C VS	CAMD A ANT	W/S B		
Wednesday		TD VSJ		SOM DS	MT VS		MT B VS	CAMD C ANT	W/S A		
Thursday		EM PNL		TD VSJ	PP VBR						
Friday		EM(T) PNL		MT VS	PP VBR			**Activity Based Session**			

Subject Abbreviation					
EM-III	Engineering Mathematics-III	SOM	Strength of Materials	PP	Production Processes
MM	Materials and Metallurgy	TD	Thermodynamics		
Faculty Abbreviation					
VSJ	Dr. V.S.Jorapur	VS	Dr. Vasim Shaikh	VBR	Prof. M.V.B.Rao
DS	Prof. Deepika Singh				

(Dr. S.S. Rathod)
Principal

(Dr. Bhushan Patil)
H.O.D. (Mechanical Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : T.E. MECHANICAL										Room Number: 406
Class Teacher: Prof. M.V.B. Rao										With Effect From: 8th August 2022 to 30th October 2022
	08.45 a.m.-9.45 a.m.	9.45a.m.-10.45 a.m.		11:00 a.m. – 12:00 p.m.	12:00 p.m.-1:00 p.m.		1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.	3:30 p.m.-4:30 p.m..	
Monday	DOM AS	MMC SAK	**B R E A K**	OPT/DOE VSB/VBR 406/401	FEA DB	**L U N C H B R E A K**	TE VSJ			
Tuesday	HONORS*	BCE JR		OPT/DOE VSB/VBR 406/401	DOM AS		TE VSJ			
Wednesday	HONORS*	BCE JR		OPT/DOE VSB/VBR 406/401	FEA DB		MMC SAK	DOM AS		
Thursday	HONORS*	TE VSJ		TE / DS / B	FEA / DB / C		TE / VSJ / C	FEA / DB / A	DOM / DS / B	
Friday	HONORS*	FEA DB		TE / VSJ / A	FEA / DB / B		MMC SAK	BCE A/B/C JR		

Subject Abbreviation					
MMC	Mechanical Measurements and Controls	TE	Thermal Engineering	DOM	Dynamics of Machinery
FEA	Finite Element Analysis	DoE	Design of Experiments	OT	Optimization Techniques
Faculty Abbreviation					
VSB	Dr. V. S. Bilolikar	VSJ	Dr. V. S. Jorapur	VBR	Prof. M.V.B. Rao
SAK	Prof. Saurabh Korgaonkar	DB	Prof. Dipali Bhise	AS	Prof. Akshay Save
JR	Dr. Joseph Rodrigues				

- Note: Classrooms for Honors Program- BCT- 501/CSL- 306/DS- 801/AIML- 811/ROBOTICS- 406/ 3-D Printing -706

(Dr. S.S. Rathod)
Principal

(Dr. Bhushan Patil)
H.O.D. (Mechanical Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : B.E. MECHANICAL										Room Number: 401			
Class Teacher: Dr. Vasim Shaikh										With Effect From: 8th August 2022 to 30th October 2022			
	08.45 a.m.-9.45 a.m.	9.45a.m.-10.45 a.m.		11:00 a.m. – 12:00 p.m.	12:00 p.m.-1:00 p.m.		1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.	3:30 p.m.-4:30 p.m..	
Monday	DMES KJ A	MEL VSJ B	IS SKD C	BREAK	PROJECT DAY		LUNCH BREAK	PROJECT DAY			
Tuesday	MDG ABR	DMES KJ			DMES KJ C	MEL VSJ A	IS SKD B		MIS/OR/DM JM/VSB/HMK 302/706/401		
Wednesday	LSCM SKD	RES/AP VS/MVR 401/402			DMES KJ B	MEL VSJ C	IS SKD A		MIS/OR/DM JM/VSB/HMK 302/706/401	DMES KJ	
Thursday	DMES KJ	RES/AP VS/MVR 401/402			LSCM SKD	MDG ABR			MIS/OR/DM JM/VSB/HMK 302/706/401		
Friday	LSCM SKD	RES/AP VS/MVR 401/402			DMES KJ	MDG ABR					

Subject Abbreviation					
DMES	Design of Mechanical System	LSCM	Logistics and Supply Chain Management	RE	Renewable ES
AP	Automotive power Systems	MD	Mach Diag	VC	Vibration Control
Faculty Abbreviation					
VSB	Dr. V.S. Bilolikar	KJ	Dr. Ketki Joshi	ABR	Dr. Arun Rane
VS	Dr. Vasim Shaikh	SKD	Dr. S.K.Das		

(Dr. S.S. Rathod)
Principal

(Dr. Bhushan Patil)
H.O.D. (Mechanical Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : B.E. PRODUCTION										Room Number: 511
Class Teacher: Prof. Dipali Bhise										With Effect From: 8th August 2022 to 30th October 2022
	08.45 a.m.-9.45 a.m.	9.45a.m.-10.45 a.m.		11:00 a.m. – 12:00 p.m.	12:00 p.m.-1:00 p.m.		1.30 p.m.-2.30 p.m.	2.30 p.m.-3.30 p.m.	3:30 p.m.-4:30 p.m..	
Monday	CE ABR	EFAC ANT	**B R E A K**	ACE SAK A	CAE ABR B	**L U N C H B R E A K**	PDIM KJ	ACE SAK		
Tuesday	EFAC ANT	FM ANT		ACE SAK B	CAE ABR C		ACE SAK			
Wednesday	PDIM KJ	FM ANT		ACE SAK C	CAE ABR A		CE ABR			
Thursday		FM ANT		ACE SAK	PDIM KJ		EFAC ANT	CE ABR		
Friday										

Subject Abbreviation					
ACE	Automation and Control Engineering	CAE	Computer Aided Engineering	EEFCA	Engineering Economics, Finance, Costing and Accountancy
FM	Finance Management				
Faculty Abbreviation					
ANT	Prof. Anant Tarse	SKD	Dr. S.K. Das	KJ	Dr. Ketki Joshi
SAK	Prof. Saurabh Korgaonkar	ABR	Dr. Arun Rane		

(Dr. S.S. Rathod)
Principal

(Dr. Bhushan Patil)
H.O.D. (Mechanical Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : S.E. (ECS)	Room Number: 307
Class Teacher: Prof. Archana Lopes	With Effect From: 23rd Jan. 2023-21st April 2023

	9.00 a.m.-10.00 a.m..	10.00 a.m.-11.00 a.m.		11.15 a.m.-12.15 p.m.	12.15 p.m.-1.15 p.m.		1.45 p.m.-2.45 p.m.	2.45 p.m.-3.45 p.m.		
Monday	MPMC SUP	EC DVB	BREAK	DSAT AL	CI KN	LUNCH BREAK	EC D DVB	PYTHON A AL		
Tuesday	CI KN	EM-IV PVS		EC / PYTHON A / B DVB / AL	CI / MPMC C / D KN / SUP		EC / PYTHON / MPMC / PYTHON C / D / A / B DVB / PKB / BJ / AL			
Wednesday	EC DVB	DSAT AL		PYTHON / CI A / B AL / DVB	MPMC / PYTHON C / D BJ / PKB		CI KN	EM-IV(T) PVS		
Thursday	CI / MPMC / PYTHON A / B / C DVB / SUP / AL			MPMC SUP	EM-IV PVS		DSAT AL	EC DVB		
Friday	EM-IV PVS	MPMC SUP		EC / PYTHON / CI B / C / D DVB / AL / KN			MINI PROJECT/MENTORING/SDP*			
Saturday										

Subject Abbreviation

EM-IV	Engineering Mathematics- IV	EC	Electronic Circuits	CI	Controls and Instrumentations
MPMC	Microprocessors and Microcontrollers	DSAT	Discrete Structures and Automata Theory	Python	Python Lab

Faculty Abbreviation

PVS	Prof. Pradeep Singh	DVB	Dr. Deepak Bhoir	KN	Prof. K. Narayanan
SUP	Dr. Sapna Prabhu	AL	Prof. Archana Lopes		

H.O. D.
(Electronics and Computer Science)

CONCEICAO RODRIGUES COLLEGE OF ENGINEERING ★ FR. AGNEL ASHRAM BANDRA MUMBAI-50

(Dr. S.S. Rathod)
Principal

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class :T.E. (ECS) | **Room Number: 306**

Class Teacher: Prof. Prajkta Bhangale | **With Effect From: 23rd Jan. 2023-21st April 2023**

	9.00 a.m.-10.00 a.m..	10.00 a.m.-11.00 a.m.		11.15 a.m.-12.15 p.m.	12.15 p.m.-1.15 p.m.		1.45 p.m.-2.45 p.m.	2.45 p.m.-3.45 p.m.	9.00 a.m.-10.00 a.m..	
Monday	ML AL	CN BJ	**BREAK**	DWM VVG	ESRTOS SUP	**LUNCH BREAK**	ESRTOS / AICN / LINUX D / A / B SUP / BJ / VVG			
Tuesday	HONORS	ML AL		AI PKB	CN BJ		LINUX VVG / DWM A / DWM B / DWM C / DWM D VVG / VVG / DK / DK			*Online
Wednesday	HONORS	DWM VVG		ESRTOS SUP	LINUX VVG		ESRTOS / AICN / LINUX A / B / C BJ / PKB / VVG			
Thursday	HONORS	DWM VVG		ML AL	AI PKB		ESRTOS / AICN / LINUX B / C / D BJ / PKB / VVG			
Friday	HONORS	AI PKB		CN BJ	ESRTOS SUP		ESRTOS / AICN / LINUX C / D / A BJ / PKB / VVG			
Saturday										

Subject Abbreviation

ESRTOS	Embedded Systems and RTOS	AI	Artificial Intelligence	CN	Computer Networks
DWM	Data warehousing and Mining	ML	Machine Learning	LINUX	Linux System Admin

Faculty Abbreviation

SUP	Dr. Sapna Prabhu	PKB	Prof. Prajkta Bhangale	BJ	Prof. Binsy joseph
VVG	Prof. Vaibhav Godbole	AL	Prof. Archana Lopes		

- SDP: Any Student Development Program / Mentoring/ Extra Lecture will be scheduled during this slot

H.O. D.
(Electronics and Computer Science)

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING ★ FR. AGNEL ASHRAM BANDRA MUMBAI-50

(Dr. S.S. Rathod)
Principal

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class :B.E. (ECS)										Room Number: 302
Class Teacher: Prof. Jayen Modi										With Effect From: 23rd Jan. 2023-21st April 2023
	9.00 a.m.-10.00 a.m..	10.00 a.m.-11.00 a.m.		11.15 a.m.-12.15 p.m.	12.15 p.m.-1.15 p.m.		1.45 p.m.-2.45 p.m.	2.45 p.m.-3.45 p.m.		
Monday	NLP A DK	ROBOTICS B JM	BREAK	NLP B DK	ROBOTICS A JM	LUNCH BREAK	PROJECT			
Tuesday	MMVR/SS JM/PKB 302/311	PM/FM JM/BSD 302/511		NLP DK	ROBOTICS JM		PROJECT			
Wednesday	MMVR/SS JM/PKB 302/311	PM/FM JM/BSD 302/511		NLP DK	ROBOTICS JM		PROJECT			
Thursday	MMVR/SS JM/PKB 302/311	PM/FM JM/BSD 302/511		NLP DK	ROBOTICS JM		PROJECT		*Online	
Friday	NLP D DK	ROBOTICS C JM		NLP C DK	ROBOTICS D JM		PROJECT			
Saturday										

Subject Abbreviation					
ROBOTICS	Robotics	NLP	Natural Language Processing	PM	Project Management
FM	Finance Management	MMVR	Multimedia and Virtual Reality	SS	System security
Faculty Abbreviation					
DK	Prof. Dipali Koshti	PKB	Prof. Prajakta Bhangale	JM	Prof, Jayen Modi

H.O. D.
(Electronics and Computer Science)

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
FR. AGNEL ASHRAM BANDRA MUMBAI-50

(Dr. S.S. Rathod)
Principal

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : SE Mechanical										Room Number: 407				
Class Teacher: Prof. Deepika Singh										With Effect From: 23rd Jan. 2023-21st April 2023				
	9.00 a.m.-10.00 a.m..	10.00 a.m.-11.00 a.m.		11.15 a.m.-12.15 p.m.	12.15 p.m.-1.15 p.m.		1.45 p.m.-2.45 p.m.		2.45 p.m.-3.45 p.m.					
Monday	IE SJP	CAD/CAM DB	BREAK	EM –IV PVS	FM DS	LUNCH BREAK	IE A SJP	PYT B AA	CNC C VS					
Tuesday	KOM AS	FM DS		EM-IV PVS	SDP*									
Wednesday	IE SJP	EM-IV PVS		CAD/CAM DB	KOM AS		CNC A VS	KOM B AS	IE C SJP					
Thursday	CAD/CAM DB	FM DS		PYT A AA	CNC B VS	KOM C AS	SDP*							
Friday	KOM A AS	IE B SJP	PYT C AA	IE SJP	KOM AS		SDP*							
Saturday														

Subject Abbreviation

EM –IV	Engineering Maths	KOM	Kinematic of machines	CAD/CAM	Computer Aided Design &Manuft.
IE	Industrial Electronics	FM	Fluid Mechanics		
PVS	Prof. Pradeep Singh	KJ	Dr. Ketaki Joshi	DSSS	Prof. D. S. S. Sudhakar
SJP	Prof. Shilpa Patil	DS	Prof. Deepika Singh		

- SDP: Any Student Development Program / Mentoring/ Extra Lecture will be scheduled during this slot

(Dr. S.S. Rathod)
Principal

CONCEICAO RODRIGUES COLLEGE OF ENGINEERING ★ FR. AGNEL ASHRAM BANDRA MUMBAI-50

H.O.D.
Mechanical Engineering

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : TE Mechanical											Room Number: 406		
Class Teacher: Prof. Miriyala Veerabhadrarao											With Effect From: 23rd Jan. 2023-21st April 2023		
	9.00 a.m.-10.00 a.m..	10.00 a.m.-11.00 a.m.		11.15 a.m.-12.15 p.m.	12.15 p.m.-1.15 p.m.		1.45 p.m.-2.45 p.m.		2.45 p.m.-3.45 p.m.			
Monday	PTD/MFT ABR/ANT 406/701	TRBM AS	BREAK	A & AI SAK	MD KJ	LUNCH BREAK	HVAC A VSK	ME &A B SAK	MD C KJ			
Tuesday	HONORS	HVAC VSJ		A & AI SAK	PTD/MFT ABR/ANT 406/607		TM A DS	HVAC B VSJ	ME &A C SAK			
Wednesday	HONORS	TRBM VSJ		MD KJ	PTD/MFT ABR/ANT 406/701		MD A KJ	TM B DS	HVAC C VSJ			
Thursday	HONORS	TRBM DS		HVAC VSJ	MD KJ		ME &A A SAK	MD B KJ	TM C DS			
Friday	HONORS	TRBM VSJ		A & AI SAK	MD KJ		*SDP					
Saturday												

Subject Abbreviation

HVAC	Heating Ventilation and Air Conditioning	TRBM	Turbo Machinary	A&AI	Automation and Artificail Intelligence
MFT	Metal Forming Technology	MD	Machine Design		
KJ	Dr. Ketaki Joshi	SAK	Prof. Saurabh Korgaonkar	DS	Prof. Deepika Singh
ANT	Prof. Anant Tarse	VSJ	Dr.. V. S. Jorapur		

- SDP: Any Student Development Program / Mentoring/ Extra Lecture will be scheduled during this slot

(Dr. S.S. Rathod)
Principal

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING ★ FR. AGNEL ASHRAM BANDRA MUMBAI-50

H.O.D.
Mechanical Engineering

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class :BE Mechanical	Room Number: 401
Class Teacher: Dr. Vasim Shaikh	With Effect From: 23rd Jan. 2023-21st April 2023

	9.00 a.m.-10.00 a.m..	10.00 a.m.-11.00 a.m.		11.15 a.m.-12.15 p.m.	12.15 p.m.-1.15 p.m.		1.45 p.m.-2.45 p.m.	2.45 p.m.-3.45 p.m.		
Monday	PROJECT			PROJECT						
Tuesday		PM/FM JM/ANT 302/401		OPC SKD	SM VS		PDD A KJ	IOT B KKW		
Wednesday		PM/FM JM/ANT 302/401		TQM/PDD ABR/KJ 401/307	OPC SKD					
Thursday		PM/FM JM/ANT 302/401		SM VS	TQM/PDD ABR/KJ 401/407		PDD C KJ	IOT A KKW		
Friday		SM VS		OPC SKD	TQM/PDD ABR/KJ 401/302		PDD B KJ	IOT C KKW		
Saturday										

Subject Abbreviation

TQM	Total Quality Management	PDD	Product Design and Development	SM	Smart Materials
FM	Finance Management				
SKD	Dr. S.K.Das	VS	Dr. Vasim Shaikh	ANT	Prof. Anant Tarse
ABR	Dr. Arun B. Rane	KJ	Dr. Ketki Joshi		

(Dr. S.S. Rathod)
Principal

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
FR. AGNEL ASHRAM BANDRA MUMBAI-50

H.O.D.
Mechanical Engineering

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class :S.E. AI & DS	Room Number: 806
Class Teacher: Prof. Garima Tripathi	With Effect From: 23rd Jan. 2023-21st April 2023

	9.00 a.m.- 10.00 a.m..	10.00 a.m.- 11.00 a.m.		11.15 a.m.- 12.15 p.m.	12.15 p.m.- 1.15 p.m.		1.45 p.m.- 2.45 p.m.	2.45 p.m.- 3.45 p.m.		
Monday	DBMS A SMD OS B GBT	PY C SKK AOA (802) D PD	BREAK	DBMS SMD	OS GBT	LUNCH BREAK	AOA PD	PY SKK		
Tuesday	AOA PD	DBMS SMD		AOA (809) A PD MP B SAM	DBMS C JKS OS D GBT		MP SAM	Mini Project/ Mentoring		
Wednesday	OS GBT	DBMS SMD		EM-IV PVS	AOA PD		PY A SKK AOA (810) B PD	MP C SAM DBMS D SMD		
Thursday	EM-IV PVS	MP SAM		OS A GBT PY B SMD	AOA (803) C PD MP D SAM		OS GBT	EM-IV PVS		
Friday	MP SAM	PY SKK		MP A SAM DBMS B JKS	OS C GBT PY D SMD		EM-IV PVS			
Saturday										

Subject Abbreviation

EM-IV	Applied Mathematics	AOA	Analysis of Algorithms	MP	Microprocessor
OS	Operating System	DBMS	Database Management System	Python Programming	Skill based Python Programming

Faculty Abbreviation

SMD	Prof. Sarika Davare	PD	Prof. Prachi Dalvi	SKK	Prof. Saurabh Kulkarni
PVS	Prof. Pradeep Singh	SAM	Prof. Swapnali Makdey		

(Dr. S.S. Rathod)
Principal

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING, FR. AGNEL ASHRAM BANDRA MUMBAI-50

For

H.O.D.
Artificial Intelligence and Data Science

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class: T.E.AI & DS	Room Number: 801
Class Teacher: Prof. Saurabh Kulkarni	With Effect From: 23rd Jan. 2023-21st April 2023

	9.00 a.m.-10.00 a.m..	10.00 a.m.-11.00 a.m.		11.15 a.m.-12.15 p.m.		12.15 p.m.-1.15 p.m.			1.45 p.m.-2.45 p.m.		2.45 p.m.-3.45 p.m.		3.45 p.m.-4.45 p.m.	
Monday	DAV JKS	DC/IP MT/SFN 801/806	BREAK	CSS A SKK	SEPM B SM	DAV C JKS	ML D SR	LUNCH BREAK	SEPM A SAM	DAV B JKS	ML C SMR	CC(802) D GBT		
Tuesday	HONORS	DC/IP MT/SFN 801/703		ML SMR		SEPM SMD			DAV A JKS	ML B SMR	CC(809) C UL	CC(802) D GBT		
Wednesday	HONORS	CSS SKK		CC(803) A SR	CC(810) B GBT	CSS C SKK	SEPM D SM		DAV JKS	MENTORING AND MINI PROJECT				
Thursday	HONORS	CSS SKK		DAV JKS		ML SMR			SEPM SMD	ML A PD	CC(810) B SMR	CC(810) C UL	CSS D SKK	
Friday	HONORS	SEPM SMD		DC/IP MT/SFN 801/806		CSS SKK			ML SMR	CC(803) A SMR	CSS B SKK	SEPM C SMD	DAV D JKS	
Saturday														

Subject Abbreviation

SEPM	Software Engineering and Project Management	CSS	Cryptography and System Security	ML	Machine Learning
DAV	Data Analytics and Visualization	DS	Distributed Computing	IP	Image Processing

Faculty Abbreviation

JKS	Dr. Jagruti Save	SMR	Prof. Swati Ringe	SFN	Prof. Sushma Nagdeote
MTP	Prof. Marly Thomas	SMD	Prof. Sarika Davare	SKK	Prof. Saurabh Kulkarni

(Dr. S.S. Rathod)
Principal

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING ★ FR. AGNEL ASHRAM BANDRA MUMBAI-50

for

H.O.D.
Artificial Intelligence and Data Science

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : S.E. (Computers) Div A | **Room Number: 702**

Class Teacher: Prof. Prajakta Dhamnaskar | **With Effect From: 23rd January to 21st April 2023**

	9.00 a.m. – 10.00 a.m.		10.00 a.m. – 11.00 am		11.00 am – 11.15 am	11.15 a.m. – 12.15 p.m.	12.15 p.m.- 1.15 p.m.	1.15 pm – 1.45 pm	1.45 p.m. to 2.45 p.m.	2.45 p.m. to 3.45 pm		
Monday	AoA	OS	Python	MP	**BREAK**	AoA PMD	MP HP	**LUNCH BREAK**	EM IV GIS	OS PKP		
	A	B	C	D								
	PMD	PKP	PZS	HP								
Tuesday	MP	Python	DBMS	OS		DBMS SDP	EM IV GIS		MP HP	Python Programming PZS		
	A	B	C	D								
	HP	PZS	SPD	PKP								
Wednesday	OS	DBMS	MP	AoA		DBMS SDP	EM IV GIS		OS PKP	AoA PMD		
	A	B	C	D								
	PKP	SPD	HP	PMD								
Thursday	Python	AoA	OS	DBMS		OS PKP	AoA PMD		EM IV (tut) GIS	MP HP		
	A	B	C	D								
	PZS	PMD	PKP	SPD								
Friday	DBMS	MP	AoA	Python		Python Programming PZS	DBMS SDP		Mini Project *			
	A	B	C	D								
	SPD	HP	PMD	PZS								
	* Respective Mentors											

Subject Abbreviation

EM-IV	Applied Mathematics	AOA	Analysis of Algorithms	MP	Microprocessor
OS	Operating System	DBMS	Database Management System	Python Programming	Skill based Python Programming

Faculty Abbreviation

SPD	Dr. Sujata Deshmukh	PMD	Prof. Prajakta Dhamnaskar	HP	Prof. Heena Pendhari
GIS	Prof. Gajendra Singh	PKP	Prof. Prachi Patil	PZS	Prof. Parshvi Shah

(Dr. S.S. Rathod)
Principal

FR CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
FR AGNEL ASHRAM BANDRA, MUMBAI 400 050

(Dr. Sujata Deshmukh)
H.O.D.(Computer Engineering)

Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : S.E. (Computers) Div B								Room Number: 703			
Class Teacher: Prof. Ashwini Pansare								With Effect From: 23rd January to 21st April 2023			
	9.00 a.m. – 10.00 a.m.		10.00 a.m. – 11.00 am		11.00 am – 11.15 am	11.15 a.m. – 12.15 p.m.	12.15 p.m.- 1.15 p.m.	1.15 pm – 1.45 pm	1.45 p.m. to 2.45 p.m.	2.45 p.m. to 3.45 pm		
Monday	AoA	MP	Python	DBMS	BREAK	AoA AAP	OS PKP	LUNCH BREAK	MP PZS	EM IV GJ		
	A	B	C	D								
	AAP	KKW	SAP	JN								
Tuesday	MP	Python	DBMS	OS		MP PZS	OS PKP		DBMS JN	Python Programming SAP		
	A	B	C	D								
	KKW	SAP	JN	VS								
Wednesday	OS	DBMS	MP	AoA		DBMS JN	EM IV GJ		AoA AAP	MP PZS		
	A	B	C	D								
	VS	JN	KKW	AAP								
Thursday	DBMS	AoA	OS	Python		EM IV (Tut) GJ	DBMS JN		AoA AAP	OS PKP		
	A	B	C	D								
	JN	AAP	VS	SAP								
Friday	Python	OS	AoA	MP		Python Programming SAP	EM IV GJ		Mini Project *			
	A	B	C	D								
	SAP	PKP	AAP	KKW								
Saturday	* Respective Mentors											

Subject Abbreviation

EM-IV	Applied Mathematics	AOA	Analysis of Algorithms	MP	Microprocessor
OS	Operating System	DBMS	Database Management System	Python Programming	Skill based Python Programming

Faculty Abbreviation

JN	Prof. Jagruti Nagoankar	AAP	Prof. Ashwini Pansare	PKP	Prof. Prachi Patil
PZS	Prof. Parshvi Shah	SAP	Prof. Sangeeta Parshionikar	GJ	Prof. Gauree Jagushte
KKW	Prof. Kranti Wagle	VS	Dr. Vijay Shelke		

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Class : T.E. (Computers) Div A | **Room Number: 811**

Class Teacher: Dr. Ashok Kanthe | **With Effect From: 23rd January to 21st April 2023**

	9.00 a.m. – 10.00 a.m.	10.00 a.m. – 11.00 am	11.00 am – 11.15 am	11.15 a.m. – 12.15 p.m.		12.15 p.m. - 1.15 p.m.		1.15 pm – 1.45 pm	1.45 p.m. to 2.45 p.m.	2.45 p.m. to 3.45 pm		3.45 p.m. to 4.45 pm		
Monday	SPCC SSK	CSS MNS	**BREAK**	CC	CC	MC	AI	**LUNCH BREAK**	QA/IOT KPD/KKW 811/801	SPCC	AI	CSS	CC	
				A	B	C	D			A	B	C	D	
				UL	SN	AK	BSD			SSK	BSD	MNS	SN	
Tuesday	Honours	MC AK		MC	CSS	AI	CC		CSS MNS	AI BSD				
				A	B	C	D							
				AK	MNS	BSD	SN							
Wednesday	Honours	MC AK		CSS	MC	CC	SPCC		QA/IOT KPD/KKW 811/801	AI BSD		Mini Project*		
				A	B	C	D							
				MNS	AK	UL	SSK							
Thursday	Honours	QA/IOT KPD/KKW 811/801		CC	CC	SPCC	MC		AI BSD	SPCC SSK				
				A	B	C	D							
				UL	SN	SSK	AK							
Friday	Honours	SPCC SSK		AI	SPCC	CC	CSS		CSS MNS	MC AK				
				A	B	C	D							
				BSD	SSK	UL	MNS							
Saturday	* Respective Mentors													

Subject Abbreviation

AI	Artificial Intelligence	CSS	Cryptography and System Security	IoT	Internet of Things
SPCC	System Programming and Compiler Construction	MC	Mobile Computing	QA	Quantitative Analysis

Faculty Abbreviation

MNS	Prof. Monali Shetty	AK	Dr. Ashok Kanthe	KKW	Prof. Kranti Wagle
SSK	Prof. Supriya Kamoji	BSD	Dr. B.S. Daga	KPD	Prof. Kalpana Deorukhkar
UN	Prof. Unik Lokhande	SN	Prof. Sushma Nagdeote		

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Class : T.E. (Computers) Div B | **Room Number: 807**

Class Teacher: Prof. Sushma Nagdeote | **With Effect From: 23rd January to 21st April 2023**

	9.00 a.m. – 10.00 a.m.	10.00 a.m. – 11.00 am	11.00 am – 11.15 am	11.15 a.m. – 12.15 p.m.	12.15 p.m. - 1.15 p.m.	1.15 pm – 1.45 pm	1.45 p.m. to 2.45 p.m.	2.45 p.m. to 3.45 pm	3.45 p.m. to 4.45 pm	
Monday	AI SN	MC AK	**BREAK**	CC / A / SSK CC / B / MTK	CC / C / RSP AI / D / KPD	**LUNCH BREAK**	QA/IOT KPD/KKW 811/807	SPCC / A / SAP SPCC / B / PZS	CSS / C / MTK CC / D / JN	
Tuesday	Honours	CSS MTK		CC / A / SSK CSS / B / MTK	AI / C / KPD CC / D / JN		AI SN	MC AK		
Wednesday	Honours	SPCC SAP		CSS / A / MTK MC / B / HP	CC / C / RSP SPCC / D / SAP		QA/IOT KPD/KKW 811/807	CSS MTK		
Thursday	Honours	QA/IOT KPD/KKW 811/807		AI / A / KPD CC / B / MTK	SPCC / C / PZS MC / D / HP		CSS MTK	SPCC SAP	Mini Project*	
Friday	Honours	MC AK		MC / A / HN AI / B / KPD	MC / C / AK CSS / D / MTK		SPCC SAP	AI SN		
Saturday	* Respective Mentors									

Subject Abbreviation

AI	Artificial Intelligence	CSS	Cryptography and System Security	IoT	Internet of Things
SPCC	System Programming and Compiler Construction	MC	Mobile Computing	QA	Quantitative Analysis

Faculty Abbreviation

AK	Dr. Ashok Kanthe	SAP	Prof. Sangeeta Parshionikar	KKW	Prof. Kranti Wagle
SN	Prof. Sushma Nagdeote	MTK	Prof. Monica Khanore	KPD	Prof. Kalpana Deorukhkar
SSK	Prof. Supriya Kamoji	RSP	Prof. Roshni Padate	PZS	Prof. Parshvi Shah

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Class : B.E. Computer (Div A)							Room Number: 108			
Class Teacher: Dr. Vijay Shelke							With Effect From: 23rd January to 21st April 2023			
	9.00 a.m. – 10.00 a.m.	10.00 a.m. – 11.00 am	11.00 am – 11.15 am	11.15 a.m. – 12.15 p.m.	12.15 p.m.- 1.15 p.m.	1.15 pm – 1.45 pm	1.45 p.m. to 2.45 p.m.	2.45 p.m. to 3.45 pm		
Monday	PROJECT DAY		BREAK	PROJECT DAY		LUNCH BREAK				
Tuesday		PM/FM JM/BSD		ADS AAP	SMA SKS		DC A VS	SMA B PMD	ADS C AAP	RPW D *
Wednesday		PM/FM JM/BSD		DC VS	SMA SKS		SMA A SKS	ADS B SPD	RPW C *	DC D VS
Thursday		PM/FM JM/BSD		ADS AAP	DC VS		ADS A KPD	RPW B *	DC C VS	SMA D PMD
Friday		DC VS		SMA SKS	ADS AAP		RPW A *	DC B VS	SMA C PMD	ADS D KPD
Saturday	* RPW - Respective Mentors									

Subject Abbreviation

DC	Distributed Computing	ADS	Applied Data Science	SMA	Social Media Analytics
FM	Finance Management	RPW	Research Paper Writing	PM	Project Management

Faculty Abbreviation

VS	Dr Vijay Shelake	SKS	Dr Sunil Surve	BSD	Dr Brijmohan Daga
JM	Prof Jayen Modi	RSP	Prof. Roshni Padate	AAP	Prof. Ashwini Pansare
AA	Prof. Ankita Amburle	KPD	Prof. Kalpana Deorukhkar	PMD	Prof. Prajakta Dhamanskar

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Fr. Conceicao Rodrigues College of Engineering, Bandra

Class : B.E. Computer (Div B)							Room Number: 511			
Class Teacher: Prof. Ankita Amburle							With Effect From: 23rd January to 21st April 2023			
	9.00 a.m. – 10.00 a.m.	10.00 a.m. – 11.00 am	11.00 am – 11.15 am	11.15 a.m. – 12.15 p.m.	12.15 p.m.- 1.15 p.m.	1.15 pm – 1.45 pm	1.45 p.m. to 2.45 p.m.	2.45 p.m. to 3.45 pm	3.45 p.m. to 4.45 pm	
Monday	PROJECT DAY		BREAK	PROJECT DAY		LUNCH BREAK				
Tuesday		PM/FM JM/BSD		ADS RSP	SMA AA		DC A MT	SMA B AA	ADS C RSP	RPW D *
Wednesday		PM/FM JM/BSD		DC MT	SMA AA		SMA A AA	ADS B RSP	RPW C *	DC D MT
Thursday		PM/FM JM/BSD		ADS RSP	DC MT		ADS A RSP	RPW B *	DC C MT	SMA D AA
Friday		DC MT		SMA AA	ADS RSP		RPW A *	DC B MT	SMA C AA	ADS D RSP
Saturday	* RPW - Respective Mentors									

Subject Abbreviation

DC	Distributed Computing	ADS	Applied Data Science	SMA	Social Media Analytics
FM	Finance Management	RPW	Research Paper Writing	PM	Project Management

Faculty Abbreviation

MT	Prof. Merly Thomas	RSP	Prof. Roshni Padate	BSD	Dr. Brijmohan Daga
JM	Prof. Jayen Modi	AA	Prof. Ankita Amburle		

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