

I B. TECH I SEM SUBJECTS (ACE R22) 2022 Batch

S NO	SYL CODE	REF CODE	NAME	INT MA X	EXT MA X	SUB TYPE	CRE DIT S
CIVIL							
1	22MA101BS	M&C	Matrices and Calculus	40	60	Theory	4
2	22PH102BS	AP	Applied Physics	40	60	Theory	4
3	22CS103ES	CP & DS	C Programming and Data Structures	40	60	Theory	3
4	22ME104ES	EWS	Engineering Workshop	40	60	Practical	2.5
5	22EN105HS	ESE	English for Skill Enhancement	40	60	Theory	2
6	22ME106ES	FCE	Fundamentals of Civil Engineering	0	50	Practical	1
7	22PH107BS	AP LAB	Applied Physics Laboratory	40	60	Practical	1.5
8	22EN109HS	ELCS LAB	English Language and Communication Skills Laboratory	40	60	Practical	1
9	22CS108ES	CP & DS LAB	C Programming and Data Structures Laboratory	40	60	Practical	1
10	22MC110	ES	Environmental Science	0	100	Practical	0
EEE							
1	22MA101BS	M&C	Matrices and Calculus	40	60	Theory	4
2	22CH102BS	EC	Engineering Chemistry	40	60	Theory	4
3	22CS103ES	CP & DS	C Programming and Data Structures	40	60	Theory	3
4	22EE105ES	ECA-1	Electrical Circuit Analysis-I	40	60	Theory	3
5	22ME105ES	CAEG	Computer Aided Engineering Graphics	40	60	Theory	3
6	22EE106ES	ECA-1 LAB	Electrical Circuit Analysis-I Laboratory	40	60	Practical	1
7	22CH107BS	EC LAB	Engineering Chemistry Laboratory	40	60	Practical	1
8	22CS108ES	CP & DS LAB	C Programming and Data Structures Laboratory	40	60	Practical	1
MECH							
1	22MA101BS	M&C	Matrices and Calculus	40	60	Theory	4
2	22PH102BS	AP	Applied Physics	40	60	Theory	4
3	22CS103ES	CP & DS	C Programming and Data Structures	40	60	Theory	3
4	22ME104ES	EWS	Engineering Workshop	40	60	Practical	2.5
5	22EN105HS	ESE	English for Skill Enhancement	40	60	Theory	2
6	22ME106ES	EME	Elements of Mechanical Engineering	0	50	Practical	1
7	22PH107BS	AP LAB	Applied Physics Laboratory	40	60	Practical	1.5
8	22EN109HS	ELCS LAB	English Language and Communication Skills Laboratory	40	60	Practical	1
9	22CS108ES	CP & DS LAB	C Programming and Data Structures Laboratory	40	60	Practical	1
10	22MC110	ES	Environmental Science	0	100	Practical	0
ECE							
1	22MA101BS	M&C	Matrices and Calculus	40	60	Theory	4
2	22PH102BS	AP	Applied Physics	40	60	Theory	4
3	22EC103ES	CPE	C Programming for Engineers	40	60	Theory	3
4	22ME104ES	EWS	Engineering Workshop	40	60	Practical	2.5
5	22EN105HS	ESE	English for Skill Enhancement	40	60	Theory	2
6	22EC106ES	EE & CE	Elements of Electronics and Communication Engineering	0	50	Practical	1
7	22PH107BS	AP LAB	Applied Physics Laboratory	40	60	Practical	1.5
8	22EC108ES	CPE LAB	C Programming for Engineers Laboratory	40	60	Practical	1
9	22EN109HS	ELCS LAB	English Language and Communication Skills Laboratory	40	60	Practical	1
10	22MC110	ES	Environmental Science	0	100	Practical	0

S NO	SYL CODE	REF CODE	NAME	INT MA X	EXT MA X	SUB TYPE	CRE DIT S
CSE							
1	22MA101BS	M&C	Matrices and Calculus	40	60	Theory	4
2	22CH102BS	EC	Engineering Chemistry	40	60	Theory	4
3	22CS104ES	PPS	Programming for Problem Solving	40	60	Theory	3
4	22EE104ES	BEE	Basic Electrical Engineering	40	60	Theory	2
5	22ME105ES	CAEG	Computer Aided Engineering Graphics	40	60	Theory	3
6	22CH107BS	EC LAB	Engineering Chemistry Laboratory	40	60	Practical	1
7	22CS109ES	PPS LAB	Programming for Problem Solving Lab	40	60	Practical	2
8	22EE109ES	BEE LAB	Basic Electrical Engineering Lab	40	60	Practical	1
IT							
1	22MA101BS	M&C	Matrices and Calculus	40	60	Theory	4
2	22CH102BS	EC	Engineering Chemistry	40	60	Theory	4
3	22CS104ES	PPS	Programming for Problem Solving	40	60	Theory	3
4	22EE104ES	BEE	Basic Electrical Engineering	40	60	Theory	2
5	22ME105ES	CAEG	Computer Aided Engineering Graphics	40	60	Theory	3
6	22CH107BS	EC LAB	Engineering Chemistry Laboratory	40	60	Practical	1
7	22CS109ES	PPS LAB	Programming for Problem Solving Lab	40	60	Practical	2
8	22EE109ES	BEE LAB	Basic Electrical Engineering Lab	40	60	Practical	1
CSM							
1	22MA101BS	M&C	Matrices and Calculus	40	60	Theory	4
2	22PH102BS	AP	Applied Physics	40	60	Theory	4
3	22CS104ES	PPS	Programming for Problem Solving	40	60	Theory	3
4	22ME104ES	EWS	Engineering Workshop	40	60	Practical	2.5
5	22EN105HS	ESE	English for Skill Enhancement	40	60	Theory	2
6	22PH107BS	AP LAB	Applied Physics Laboratory	40	60	Practical	1.5
7	22CS109ES	PPS LAB	Programming for Problem Solving Lab	40	60	Practical	2
8	22EN109HS	ELCS LAB	English Language and Communication Skills Laboratory	40	60	Practical	1
9	22MC110	ES	Environmental Science	0	100	Practical	0
CSD							
1	22MA101BS	M&C	Matrices and Calculus	40	60	Theory	4
2	22CH102BS	EC	Engineering Chemistry	40	60	Theory	4
3	22CS104ES	PPS	Programming for Problem Solving	40	60	Theory	3
4	22EE104ES	BEE	Basic Electrical Engineering	40	60	Theory	2
5	22ME105ES	CAEG	Computer Aided Engineering Graphics	40	60	Theory	3
6	22CH107BS	EC LAB	Engineering Chemistry Laboratory	40	60	Practical	1
7	22CS109ES	PPS LAB	Programming for Problem Solving Lab	40	60	Practical	2
8	22EE109ES	BEE LAB	Basic Electrical Engineering Lab	40	60	Practical	1
CSO							
1	22MA101BS	M&C	Matrices and Calculus	40	60	Theory	4
2	22PH102BS	AP	Applied Physics	40	60	Theory	4
3	22CS104ES	PPS	Programming for Problem Solving	40	60	Theory	3
4	22ME104ES	EWS	Engineering Workshop	40	60	Practical	2.5
5	22EN105HS	ESE	English for Skill Enhancement	40	60	Theory	2

S NO	SYL CODE	REF CODE	NAME	INT MA X	EXT MA X	SUB TYPE	CRE DIT S
6	22PH107BS	AP LAB	Applied Physics Laboratory	40	60	Practical	1.5
7	22CS109ES	PPS LAB	Programming for Problem Solving Lab	40	60	Practical	2
8	22EN109HS	ELCS LAB	English Language and Communication Skills Laboratory	40	60	Practical	1
9	22MC110	ES	Environmental Science	0	100	Practical	0

I B. TECH II SEM SUBJECTS (ACE R22) - 2022 Batch

S NO	SYL CODE	REF CODE	NAME	INT MA X	EXT MA X	SUB TYPE	CRE DITS
CIVIL							
1	22MA201BS	ODEVC	Ordinary Differential Equations and Vector Calculus	40	60	Theory	4
2	22CH202BS	EC	Engineering Chemistry	40	60	Theory	4
3	22ME203ES	CAEG	Computer Aided Engineering Graphics	40	60	Theory	3
4	22CE204ES	AM	Applied Mechanics	40	60	Theory	3
5	22CE205PC	SUREVEY	SURVEYING	40	60	Theory	2
6	22CS206ES	PP LAB	Python Programming Laboratory	40	60	Practical	2
7	22CH207BS	EC LAB	Engineering Chemistry Laboratory	40	60	Practical	1
8	22CE208PC	Surveying Lab-I	Surveying Laboratory-I	40	60	Practical	1
EEE							
1	22MA201BS	ODEVC	Ordinary Differential Equations and Vector Calculus	40	60	Theory	4
2	22PH202BS	AP	Applied Physics	40	60	Theory	4
3	22ME203ES	EWS	Engineering Workshop	40	60	Practical	2.5
4	22EN204HS	ESE	English for skill Enhancement	40	60	Theory	2
5	22EE205ES	ECA-II	Electrical Circuit Analysis -II	40	60	Theory	2
6	22CS206ES	PP LAB	Python programming Laboratory	40	60	Practical	2
7	22PH207BS	AP LAB	Applied Physics laboratory	40	60	Practical	1.5
8	22EN208HS	ELCS LAB	English Language and communication skills laboratory	40	60	Practical	1
9	22EE209ES	ECA-II LAB	Electrical Circuit Analysis -II Laboratory	40	60	Practical	1
10	22MC210	ES	Environmental Science	0	100	Practical	0
MECH							
1	22MA201BS	ODEVC	Ordinary Differential Equations and Vector Calculus	40	60	Theory	4
2	22CH202BS	EC	Engineering Chemistry	40	60	Theory	4
3	22ME203ES	CAEG	Computer Aided Engineering Graphics	40	60	Theory	3
4	22ME204ES	EM	Engineering Mechanics	40	60	Theory	3
5	22ME205PC	EMLS	Engineering Materials	40	60	Theory	2
6	22ME206ES	PP LAB	Python Programming Laboratory	40	60	Practical	2
7	22CH207BS	EC LAB	Engineering Chemistry Laboratory	40	60	Practical	1
8	22ME208PC	FL LAB	Fuels & Lubricants Laboratory	40	60	Practical	1
9	22CS206ES	PP LAB	Python Programming Laboratory	40	60	Practical	2.5
ECE							
1	22MA201BS	ODEVC	Ordinary Differential Equations and Vector Calculus	40	60	Theory	4
2	22CH202BS	EC	Engineering Chemistry	40	60	Theory	4
3	22ME203ES	CAEG	Computer Aided Engineering Graphics	40	60	Theory	3
4	22EE204ES	BEE	Basic Electrical Engineering	40	60	Theory	2
5	22EC205ES	EDC	Electronic Devices and Circuits	40	60	Theory	2
6	22EC206ES	APP LAB	Applied Python Programming Laboratory	40	60	Practical	2
7	22CH207BS	EC LAB	Engineering Chemistry Laboratory	40	60	Practical	1
8	22EE208ES	BEE LAB	Basic Electrical Engineering Laboratory	40	60	Practical	1
9	22EC209ES	EDC LAB	Electronic Devices and Circuits Laboratory	40	60	Practical	1
CSE							
1	22MA201BS	ODEVC	Ordinary Differential Equations and Vector Calculus	40	60	Theory	4
2	22PH202BS	AP	Applied Physics	40	60	Theory	4
3	22ME203ES	EWS	Engineering Workshop	40	60	Practical	2.5
4	22EN204HS	ESE	English for Skill Enhancement	40	60	Theory	2
5	22EC204ES	DE	Digital Electronics	40	60	Theory	2
6	22PH207BS	AP LAB	Applied Physics Laboratory	40	60	Practical	1.5
7	22CS206ES	PP LAB	Python Programming Laboratory	40	60	Practical	2
8	22EN208HS	ELCS LAB	English Language and Communication Skills Laboratory	40	60	Practical	1

S NO	SYL CODE	REF CODE	NAME	INT MA X	EXT MA X	SUB TYPE	CRE DITS
9	22CS209ES	ITWS	IT Workshop	40	60	Practical	1
10	22MC210	ES	Environmental Science	0	100	Practical	0
IT							
1	22MA201BS	ODEVC	Ordinary Differential Equations and Vector Calculus	40	60	Theory	4
2	22PH202BS	AP	Applied Physics	40	60	Theory	4
3	22ME203ES	EWS	Engineering Workshop	40	60	Practical	2.5
4	22EN204HS	ESE	English for Skill Enhancement	40	60	Theory	2
5	22EC204ES	DE	Digital Electronics	40	60	Theory	2
6	22PH207BS	AP LAB	Applied Physics Laboratory	40	60	Practical	1.5
7	22CS206ES	PP LAB	Python Programming Laboratory	40	60	Practical	2
8	22EN208HS	ELCS LAB	English Language and Communication Skills Laboratory	40	60	Practical	1
9	22CS209ES	ITWS	IT Workshop	40	60	Practical	1
10	22MC210	ES	Environmental Science	0	100	Practical	0
CSM							
1	22MA201BS	ODEVC	Ordinary Differential Equations and Vector Calculus	40	60	Theory	4
2	22CH202BS	EC	Engineering Chemistry	40	60	Theory	4
3	22ME203ES	CAEG	Computer Aided Engineering Graphics	40	60	Theory	3
4	22EE204ES	BEE	Basic Electrical Engineering	40	60	Theory	2
5	22EC204ES	DE	Digital Electronics	40	60	Theory	2
6	22CH207BS	EC LAB	Engineering Chemistry Laboratory	40	60	Practical	1
7	22CS206ES	PP LAB	Python Programming Laboratory	40	60	Practical	2
8	22EE208ES	BEE LAB	Basic Electrical Engineering Laboratory	40	60	Practical	1
9	22CS209ES	ITWS	IT Workshop	40	60	Practical	1
CSD							
1	22MA201BS	ODEVC	Ordinary Differential Equations and Vector Calculus	40	60	Theory	4
2	22PH202BS	AP	Applied Physics	40	60	Theory	4
3	22ME203ES	EWS	Engineering Workshop	40	60	Practical	2.5
4	22EN204HS	ESE	English for Skill Enhancement	40	60	Theory	2
5	22EC204ES	DE	Digital Electronics	40	60	Theory	2
6	22PH207BS	AP LAB	Applied Physics Laboratory	40	60	Practical	1.5
7	22CS206ES	PP LAB	Python Programming Laboratory	40	60	Practical	2
8	22EN208HS	ELCS LAB	English Language and Communication Skills Laboratory	40	60	Practical	1
9	22CS209ES	ITWS	IT Workshop	40	60	Practical	1
10	22MC210	ES	Environmental Science	0	100	Practical	0
CSO							
1	22MA201BS	ODEVC	Ordinary Differential Equations and Vector Calculus	40	60	Theory	4
2	22CH202BS	EC	Engineering Chemistry	40	60	Theory	4
3	22ME203ES	CAEG	Computer Aided Engineering Graphics	40	60	Theory	3
4	22EE204ES	BEE	Basic Electrical Engineering	40	60	Theory	2
5	22EC204ES	DE	Digital Electronics	40	60	Theory	2
6	22CH207BS	EC LAB	Engineering Chemistry Laboratory	40	60	Practical	1
7	22CS206ES	PP LAB	Python Programming Laboratory	40	60	Practical	2
8	22EE208ES	BEE LAB	Basic Electrical Engineering Laboratory	40	60	Practical	1
9	22CS209ES	ITWS	IT Workshop	40	60	Practical	1

II B. TECH I SEM SUBJECTS (ACE R22)

S NO	SYL CODE	REF CODE	NAME	ELECTIVE	INT MAX	EXT MAX	SUB TYPE	CRE DITS
CIVIL								
1	22MA304BS	P&S	Probability and Statistics		40	60	Theory	4
2	22CE302PC	BMCP	Building Materials, Construction and Planning		40	60	Theory	3
3	22CE303PC	EG	Engineering Geology		40	60	Theory	3
4	22CE304PC	SOM-I	Strength of Materials - I		40	60	Theory	3
5	22CE305PC	FM	Fluid Mechanics		40	60	Theory	3
6	22CE306PC	SURVEY LAB-II	Surveying Laboratory - II		40	60	Practical	2
7	22CE307PC	SOM LAB	Strength of Materials Laboratory		40	60	Practical	1
8	22CE308PC	CAD LAB	Computer Aided Drafting Laboratory		40	60	Practical	1
9	22MC309	COI	Constitution of India		0	100	Practical	0
EEE								
1	22MA301BS	NMCV	Numerical Methods & Complex Variables		40	60	Theory	4
2	22ME302ES	SMHM	Solid Mechanics & Hydraulic Machines		40	60	Theory	3
3	22EC303ES	AE	Analog Electronics		40	60	Theory	3
4	22EE304PC	EM-I	Electrical Machines-I		40	60	Theory	4
5	22EE305PC	EMF	Electro Magnetic Fields		40	60	Theory	3
6	22EE306PC	EM-I LAB	Electrical Machines-I Laboratory		40	60	Practical	1
7	22EC307ES	AE LAB	Analog Electronics Laboratory		40	60	Practical	1
8	22EE308PC	ES LAB	Electrical Simulation Laboratory		40	60	Practical	1
9	22MC310	GS LAB	Gender Sensitization Lab		0	100	Practical	0
MECH								
1	22MA305BS	PSCV	Probability, Statistics & Complex Variables		40	60	Theory	4
2	22ME302PC	MOS	Mechanics of Solids		40	60	Theory	3
3	22ME303PC	MMS	Metallurgy & Material Science		40	60	Theory	3
4	22ME304PC	PT	Production Technology		40	60	Theory	3
5	22ME305PC	TD	Thermodynamics		40	60	Theory	4
6	22ME306PC	PT LAB	Production Technology Laboratory		40	60	Practical	1
7	22ME307PC	MS&MOS	Material Science & Mechanics of Solids Labor		40	60	Practical	1
8	22ME308PC	CAMD	Computer Aided Machine Drawing		40	60	Practical	1
9	22MC309	COI	Constitution of India		0	100	Practical	0
ECE								
1	22EC301PC	AEC	Analog Electronic Circuits		40	60	Theory	4
2	22EC302PC	NAS	Network Analysis and Synthesis		40	60	Theory	3
3	22EC303PC	DLD	Digital Logic Design		40	60	Theory	3
4	22EC304PC	S&S	Signals and Systems		40	60	Theory	4
5	22EC305ES	PTSP	Probability Theory and Stochastic Processes		40	60	Theory	3
6	22EC306PC	AEC LAB	Analog Electronic Circuits Laboratory		40	60	Practical	1
7	22EC307PC	DLD LAB	Digital Logic Design Laboratory		40	60	Practical	1
8	22EC308PC	BS LAB	Basic Simulation Laboratory		40	60	Practical	1
9	22MC309	COI	Constitution of India		0	100	Practical	0
CSE								
1	22EC301ES	EDC	Electronic Devices and Circuits		40	60	Theory	2
2	22CS302PC	DS	Data Structures		40	60	Theory	3
3	22MA303BS	COSM	Computer Oriented Statistical Methods		40	60	Theory	4
4	22CS304PC	COA	Computer Organization and Architecture		40	60	Theory	3
5	22CS305PC	OOPJAVA	Object Oriented Programming through Java		40	60	Theory	3
6	22CS306PC	ECSE	Elements of Computer Science & Engineering		0	50	Practical	1
7	22CS307PC	DS LAB	Data Structures Lab		40	60	Practical	1.5
8	22CS308PC	OOP JAVA LAB	Object Oriented Programming through Java La		40	60	Practical	1.5
9	22MC310	GS LAB	Gender Sensitization Lab		0	100	Practical	0
10	22CS310PC	DVRP/PBI	Data visualization- R Programming/ Power BI		40	60	Practical	1

IT							
1	22EC301ES	EDC	Electronic Devices and Circuits	40	60	Theory	2
2	22CS302PC	DS	Data Structures	40	60	Theory	3
3	22MA303BS	COSM	Computer Oriented Statistical Methods	40	60	Theory	4
4	22IT304PC	COM	Computer Organization and Microprocessor	40	60	Theory	3
5	22EC306ES	IIOT	Introduction to IoT	40	60	Theory	2
6	22CS306PC	ECSE	Elements of Computer Science & Engineering	0	50	Practical	1
7	22EC309ES	DE LAB	Digital Electronic Lab	40	60	Practical	1
8	22CS307PC	DS LAB	Data Structures Lab	40	60	Practical	1.5
9	22EC308ES	IOT LAB	Internet of Things Lab	40	60	Practical	1.5
10	22MC310	GS LAB	Gender Sensitization Lab	0	100	Practical	0
11	22CS310PC	DVRP/PBI	Data visualization- R Programming/ Power BI	40	60	Practical	1
CSM							
1	22MA402BS	MSF	Mathematical and Statistical Foundations	40	60	Theory	4
2	22CS302PC	DS	Data Structures	40	60	Theory	3
3	22CS304PC	COA	Computer Organization and Architecture	40	60	Theory	3
4	22CS312PC	SE	Software Engineering	40	60	Theory	3
5	22CS313PC	OS	Operating Systems	40	60	Theory	3
6	22CS309PC	DS LAB USING C	Data Structures Lab using C	40	60	Practical	1
7	22CS314PC	OS LAB	Operating Systems Lab	40	60	Practical	1
8	22CS315PC	SE LAB	Software Engineering Lab	40	60	Practical	1
9	22CS316PC	NJS/RJS/DJ	Node JS/ React JS/ Django	40	60	Practical	1
10	22MC309	COI	Constitution of India	0	100	Practical	0
11	22MC311	FOCSE	Fundamentals of Computer Sciene & Engineer	0	50	Practical	0
CSD							
1	22EC301ES	EDC	Electronic Devices and Circuits	40	60	Theory	2
2	22CS302PC	DS	Data Structures	40	60	Theory	3
3	22MA303BS	COSM	Computer Oriented Statistical Methods	40	60	Theory	4
4	22CS304PC	COA	Computer Organization and Architecture	40	60	Theory	3
5	22CS305PC	OOPJAVA	Object Oriented Programming through Java	40	60	Theory	3
6	22CS306PC	ECSE	Elements of Computer Science & Engineering	0	50	Practical	1
7	22CS307PC	DS LAB	Data Structures Lab	40	60	Practical	1.5
8	22CS308PC	OOP JAVA LAB	Object Oriented Programming through Java La	40	60	Practical	1.5
9	22DS310PC	DVRP/PBI	Data visualization- R Programming/ Power BI	40	60	Practical	1
10	22MC312	APP	Advanced Python Programming	0	100	Practical	0
11	22MC310	GS LAB	Gender Sensitization Lab	0	100	Practical	0
CSO							
1	22EC301ES	EDC	Electronic Devices and Circuits	40	60	Theory	2
2	22CS302PC	DS	Data Structures	40	60	Theory	3
3	22CS313PC	OS	Operating Systems	40	60	Theory	3
4	22CS312PC	SE	Software Engineering	40	60	Theory	3
5	22CS311PC	DM	Discrete Mathematics	40	60	Theory	3
6	22CS306PC	ECSE	Elements of Computer Science & Engineering	0	50	Practical	1
7	22EC309ES	DE LAB	Digital Electronic Lab	40	60	Practical	1
8	22CS307PC	DS LAB	Data Structures Lab	40	60	Practical	1.5
9	22CS314PC	OS LAB	Operating Systems Lab	40	60	Practical	1.5
10	22MC309	COI	Constitution of India	0	100	Practical	0
11	22CS310PC	DVRP/PBI	Data visualization- R Programming/ Power BI	40	60	Practical	1

II B. TECH II SEM SUBJECTS (ACE R22)

S NO	SYL CODE	NAME	INT MA X	EXT MAX	SUB TYPE	CRE DIT S
CIVIL						
1	22EE401ES	Elements of Electrical and Electronics Engineering	40	60	Theory	3
2	22CE402PC	Concrete Technology	40	60	Theory	3
3	22CE403PC	Strength of Materials II	40	60	Theory	3
4	22CE404PC	Hydraulics and Hydraulics Machinery	40	60	Theory	3
5	22CE405PC	Structural Analysis - I	40	60	Theory	3
6	22CE406PC	Hydraulics and Hydraulics Machinery Laboratory	40	60	Practical	1
7	22EE407ES	Elements of Electrical and Electronics Engineering Laboratory	40	60	Practical	1
8	22CE408PC	Engineering Geology & Concrete Technology Laboratory	40	60	Practical	1
9	22CE409PC	Research Project/ Field-Based Project	50	0	Practical	2
10	22MC410	Gender Sensitization Laboratory	0	100	Practical	0
EEE						
1	22EE401PC	Power Systems-I	40	60	Theory	3
2	22EE402PC	Measurements and Instrumentation	40	60	Theory	3
3	22EE403PC	Electrical MachinesII	40	60	Theory	3
4	22EC404ES	Digital Circuits	40	60	Theory	2
5	22EE405PC	Control Systems	40	60	Theory	4
6	22EC406ES	Digital Circuits Laboratory	40	60	Practical	1
7	22EE407PC	Measurements and Instrumentation Laboratory	40	60	Practical	1
8	22EE408PC	Electrical Machines-II Laboratory	40	60	Practical	1
9	22EE409PC	Research Oriented Mini Project / Filed Based Project	50	0	Practical	2
10	22MC409	Constitution of India	0	100	Practical	0
MECH						
1	22EE401ES	Elements of Electrical and Electronics Engineering	40	60	Theory	3
2	22ME402PC	Kinematics of Machinery	40	60	Theory	3
3	22ME403PC	Fluid Mechanics & Hydraulic Machines	40	60	Theory	3
4	22ME404PC	IC Engines & Gas Turbines	40	60	Theory	3
5	22ME405PC	Instrumentation and Control Systems	40	60	Theory	3
6	22EE407ES	Elements of Electrical and Electronics Engineering Laboratory	40	60	Practical	1
7	22ME406PC	Fluid Mechanics & Hydraulic Machines Laboratory	40	60	Practical	1
8	22ME408PC	Instrumentation and Control Systems Laboratory	40	60	Practical	1
9	22ME409PC	Real-time Research Project/ Field-Based Project	50	0	Practical	2
10	22MC410	Gender Sensitization Laboratory	0	100	Practical	0
ECE						
1	22MA401BS	Numerical Methods and Complex Variables	40	60	Theory	3
2	22EC402PC	Electromagnetic Fields and Transmission Lines	40	60	Theory	3
3	22EC403PC	Analog and Digital Communications	40	60	Theory	3
4	22EC404PC	Linear and Digital IC Applications	40	60	Theory	3
5	22EC405PC	Electronic Circuit Analysis	40	60	Theory	3
6	22EC406PC	Analog and Digital Communications Laboratory	40	60	Practical	1
7	22EC407PC	Linear and Digital IC Applications Laboratory	40	60	Practical	1
8	22EC408PC	Electronic Circuit Analysis Laboratory	40	60	Practical	1
9	22EC409PC	Real Time Project/ Field Based Project	50	0	Practical	2
10	22MC410	Gender Sensitization Laboratory	0	100	Practical	0

S NO	SYL CODE	NAME	INT MA X	EXT MAX	SUB TYPE	CRE DIT S
CSE						
1	22CS401PC	Discrete Mathematics	40	60	Theory	3
2	22SM402MS	Business Economics & Financial Analysis	40	60	Theory	3
3	22CS403PC	Operating Systems	40	60	Theory	3
4	22CS404PC	Database Management Systems	40	60	Theory	3
5	22CS405PC	Software Engineering	40	60	Theory	3
6	22CS406PC	Operating Systems Lab	40	60	Practical	1
7	22CS407PC	Database Management Systems Lab	40	60	Practical	1
8	22CS408PC	Real-time Research Project/Societal Related Project	50	0	Practical	2
9	22MC409	Constitution of India	0	100	Practical	0
10	22CS410PC	Skill Development Course (Node JS/ React JS/Django/Flask	40	60	Practical	1
IT						
1	22CS401PC	Discrete Mathematics	40	60	Theory	3
2	22SM402MS	Business Economics & Financial Analysis	40	60	Theory	3
3	22CS403PC	Operating Systems	40	60	Theory	3
4	22CS404PC	Database Management Systems	40	60	Theory	3
5	22IT405PC	Java Programming	40	60	Theory	2
6	22CS406PC	Operating Systems Lab	40	60	Practical	1
7	22CS407PC	Database Management Systems Lab	40	60	Practical	1
8	22CS411PC	Java Programming Lab	40	60	Practical	1
9	22IT409PC	Real-time Research Project/Societal Related Project	50	0	Practical	2
10	22MC409	Constitution of India	0	100	Practical	0
11	22CS410PC	Skill Development Course (NodeJ S/React JS/Django/Flask)	40	60	Practical	1
CSM						
1	22CS401PC	Discrete Mathematics	40	60	Theory	3
2	22CS402PC	Automata Theory and Compiler Design	40	60	Theory	3
3	22CS404PC	Database Management Systems	40	60	Theory	3
4	22CM403PC	Introduction to Artificial Intelligence	40	60	Theory	3
5	22CS412PC	Object Oriented Programming Through Java	40	60	Theory	3
6	22CS407PC	Database Management Systems Lab	40	60	Practical	1
7	22CS411PC	Java Programming Lab	40	60	Practical	1
8	22CM404PC	Real-time Research Project/Societal Related Project	50	0	Practical	2
9	22CM409PC	Prolog/Lisp/Pyswip	40	60	Practical	1
10	22MC410	Gender Sensitization Laboratory	0	100	Practical	0
CSD						
1	22CS401PC	Discrete Mathematics	40	60	Theory	3
2	22SM402MS	Business Economics & Financial Analysis	40	60	Theory	3
3	22CS403PC	Operating Systems	40	60	Theory	3
4	22CS404PC	Database Management Systems	40	60	Theory	3
5	22CS405PC	Software Engineering	40	60	Theory	3
6	22CS406PC	Operating Systems Lab	40	60	Practical	1
7	22CS407PC	Database Management Systems Lab	40	60	Practical	1
8	22CD401PC	Real-time Research Project/Societal Related Project	50	0	Practical	2
9	22CS409PC	Node JS/ React JS/ Django	40	60	Practical	1
10	22MC409	Constitution of India	0	100	Practical	0

S NO	SYL CODE	NAME	INT MA X	EXT MAX	SUB TYPE	CRE DIT S
CSO						
1	22MA402BS	Computer Oriented Statistical Methods	40	60	Theory	4
2	22CS413PC	Computer Organization and Architecture	40	60	Theory	3
3	22EC401ES	Sensors and Devices	40	60	Theory	2
4	22CS412PC	Object Oriented Programming through Java	40	60	Theory	3
5	22CS414PC	Computer Networks	40	60	Theory	3
6	22EC402ES	Sensors and Devices Lab	40	60	Practical	1
7	22CS411PC	Java Programming Lab	40	60	Practical	1
8	22CO401PC	Real-time Research Project/ Field Based Research Project	50	0	Practical	2
9	22MC410	Gender Sensitization Laboratory	0	100	Practical	0
10	22CS410PC	Skill Development Course (Node JS/ React JS/Django/Flask	40	60	Practical	1

III B. TECH I SEM SUBJECTS (ACE R22)

S NO	EXT EXAM CODE	NAME	ELEC TIVE	INT MAX	EXT MAX	SUB TYPE	CRE DIT S
CIVIL							
1	22CE501PC	STRUCTURAL ANALYSIS-II		40	60	Theory	3
2	22CE502PC	GEOTECHNICAL ENGINEERING		40	60	Theory	3
3	22CE503PC	STRUCTURAL ENGINEERING-I (RCC)		40	60	Theory	3
4	22SM504MS	BUSINESS ECONOMICS & FINANCIAL ANALYSIS		40	60	Theory	3
5	22CE505PC	TRANSPORTATION ENGINEERING		40	60	Theory	3
6	22CE506PC	HYDROLOGY AND WATER RESOURCES ENGINEERING		40	60	Theory	3
7	22CE507PC	TRANSPORTATION ENGINEERING LABORATORY		40	60	Practical	1
8	22CE508PC	GEOTECHNICAL ENGINEERING LABORATORY		40	60	Practical	1
9	22MC510	INTELLECTUAL PROPERTY RIGHTS		0	100	Practical	0
11	22MC513	Cyber Security		0	100	Practical	0
EEE							
1	22EE501PC	POWER ELECTRONICS		40	60	Theory	4
2	22EE502PC	POWER SYSTEM-II		40	60	Theory	4
3	22EE503PC	MICROPROCESSORS & MICROCONTROLLERS		40	60	Theory	3
4	22EE512PE	HIGH VOLTAGE ENGINEERING	PE-I	40	60	Theory	3
5	22SM504MS	BUSINESS ECONOMICS & FINANCIAL ANALYSIS		40	60	Theory	3
6	22EE505PC	MICROPROCESSORS & MICROCONTROLLERS LABORATORY		40	60	Practical	1
7	22EE506PC	CONTROL SYSTEMS LABORATORY		40	60	Practical	1
8	22EN508HS	ADVANCED ENGLISH COMMUNICATION SKILLS LABORATORY		40	60	Practical	1
9	22MC510	INTELLECTUAL PROPERTY RIGHTS		0	100	Practical	0
10	22MC513	Cyber Security		0	100	Practical	0
MECH							
1	22ME501PC	DYNAMICS OF MACHINERY		40	60	Theory	3
2	22ME502PC	DESIGN OF MACHINE ELEMENTS		40	60	Theory	3
3	22ME503PC	METROLOGY & MACHINE TOOLS		40	60	Theory	3
4	22SM505MS	BUSINESS ECONOMICS & FINANCIAL ANALYSIS		40	60	Theory	3
5	22ME505PC	STEAM POWER & JET PROPULSION		40	60	Theory	3
6	22ME506PC	CAD/CAM		40	60	Theory	2
7	22ME507PC	THERMAL ENGINEERING LABORATORY		40	60	Practical	1
8	22ME508PC	METROLOGY & MACHINE TOOLS LABORATORY		40	60	Practical	1
9	22ME509PC	KINEMATICS & DYNAMICS LABORATORY		40	60	Practical	1
10	22MC510	INTELLECTUAL PROPERTY RIGHTS		0	100	Practical	0
11	22MC513	CYBER SECURITY		0	100	Practical	0
ECE							
1	22EC501PC	MICROCONTROLLERS		40	60	Theory	4
2	22EC502PC	IOT ARCHITECTURES AND PROTOCOLS		40	60	Theory	4
3	22EC503PC	CONTROL SYSTEMS		40	60	Theory	4
4	22SM505MS	BUSINESS ECONOMICS & FINANCIAL ANALYSIS		40	60	Theory	3
5	22EC511PE	DATA COMMUNICATIONS AND COMPUTER NETWORKS		40	60	Theory	3
6	22EC505PC	MICROCONTROLLERS LAB		40	60	Practical	1.5
7	22EC506PC	IOT ARCHITECTURES AND PROTOCOLS LAB		40	60	Practical	1.5
8	22EN508HS	ADVANCED ENGLISH COMMUNICATION SKILLS LABORATORY		40	60	Practical	1
9	22MC510	INTELLECTUAL PROPERTY RIGHTS		0	100	Practical	0
10	22MC513	CYBER SECURITY		0	100	Practical	0

CSE							
1	22CS501PC	DESIGN AND ANALYSIS OF ALGORITHMS		40	60	Theory	4
2	22CS502PC	COMPUTER NETWORKS		40	60	Theory	3
3	22CS503PC	DEVOps		40	60	Theory	3
4	22CS513PE	DATA ANALYTICS	PE-I	40	60	Theory	3
5	22CS524PE	DISTRIBUTED DATABASES	PE-II	40	60	Theory	3
6	22CS504PC	COMPUTER NETWORKS LAB		40	60	Practical	1
7	22CS505PC	DEVOps LAB		40	60	Practical	1
8	22EN508HS	ADVANCED ENGLISH COMMUNICATION SKILLS LABORATORY		40	60	Practical	1
9	22CS506PC	UI DESIGN - FLUTTER		40	60	Practical	1
10	22MC510	INTELLECTUAL PROPERTY RIGHTS		0	100	Practical	0
IT							
1	22IT501PC	SOFTWARE ENGINEERING		40	60	Theory	3
2	22IT502PC	DATA COMMUNICATIONS AND COMPUTER NETWORKS		40	60	Theory	4
3	22AM502PC	MACHINE LEARNING		40	60	Theory	3
4	22CS513PE	DATA ANALYTICS	PE-I	40	60	Theory	3
5	22CS524PE	DISTRIBUTED DATABASES	PE-II	40	60	Theory	3
6	22IT504PC	SOFTWARE ENGINEERING & COMPUTER NETWORKS LAB		40	60	Practical	1
7	22AM505PC	MACHINE LEARNING LAB		40	60	Practical	1
8	22EN508HS	ADVANCED ENGLISH COMMUNICATION SKILLS LABORATORY		40	60	Practical	1
9	22CS506PC	UI DESIGN - FLUTTER		40	60	Practical	1
10	22MC510	INTELLECTUAL PROPERTY RIGHTS		0	100	Practical	0
11	22MC511	FUNDAMENTALS OF AI		0	100	Practical	0
CSM							
1	22CS501PC	DESIGN AND ANALYSIS OF ALGORITHMS		40	60	Theory	3
2	22AM502PC	MACHINE LEARNING		40	60	Theory	3
3	22AM503PC	COMPUTER NETWORKS		40	60	Theory	3
4	22SM505MS	BUSINESS ECONOMICS & FINANCIAL ANALYSIS		40	60	Theory	3
5	22AM512PE	INTRODUCTION TO DATA SCIENCE	PE-I	40	60	Theory	3
6	22AM505PC	MACHINE LEARNING LAB		40	60	Practical	1.5
7	22AM506PC	COMPUTER NETWORKS LAB		40	60	Practical	1.5
8	22EN508HS	ADVANCED ENGLISH COMMUNICATION SKILLS LABORATORY		40	60	Practical	1
9	22CS506PC	UI DESIGN - FLUTTER		40	60	Practical	1
10	22MC510	INTELLECTUAL PROPERTY RIGHTS		0	100	Practical	0
11	22MC512	ESSENCE OF INDIAN KNOWLEDGE TRADITION PART-1		0	100	Practical	0
CSD							
1	22DS501PC	ALGORITHMS DESIGN AND ANALYSIS		40	60	Theory	3
2	22DS502PC	INTRODUCTION TO DATA SCIENCE		40	60	Theory	4
3	22AM503PC	COMPUTER NETWORKS		40	60	Theory	3
4	22DS512PE	ARTIFICIAL INTELLIGENCE	PE-I	40	60	Theory	3
5	22DS522PE	INFORMATION RETRIEVAL SYSTEM	PE-II	40	60	Theory	3
6	22DS504PC	R PROGRAMMING LAB		40	60	Practical	1
7	22AM506PC	COMPUTER NETWORKS LAB		40	60	Practical	1.5
8	22EN508HS	ADVANCED ENGLISH COMMUNICATION SKILLS LABORATORY		40	60	Practical	1.5
9	22DS506PC	ETL - KAFKA / TALEND		40	60	Practical	1
10	22MC510	INTELLECTUAL PROPERTY RIGHTS		0	100	Practical	0
11	22MC512	ESSENCE OF INDIAN KNOWLEDGE TRADITION PART-1		0	100	Practical	0
CSO							
1	22IO501PC	AUTOMATA THEORY AND COMPILER DESIGN		40	60	Theory	3
2	22IO502PC	MICROPROCESSORS & MICROCONTROLLERS		40	60	Theory	4
3	22IO503PC	DATABASE MANAGEMENT SYSTEMS		40	60	Theory	3
4	22SM505MS	BUSINESS ECONOMICS & FINANCIAL ANALYSIS		40	60	Theory	3
5	22IO513PE	IOT SYSTEM ARCHITECTURES	PE-I	40	60	Theory	3
6	22IO505PC	DATABASE MANAGEMENT SYSTEMS LAB		40	60	Practical	1
7	22IO506PC	MICROPROCESSORS & MICROCONTROLLERS LABORATORY		40	60	Practical	1
8	22EN508HS	ADVANCED ENGLISH COMMUNICATION SKILLS LABORATORY		40	60	Practical	1
9	22CS506PC	UI DESIGN - FLUTTER		40	60	Practical	1
10	22MC510	INTELLECTUAL PROPERTY RIGHTS		0	100	Practical	0
11	22MC511	FUNDAMENTALS OF AI		0	100	Practical	0

III B. TECH II SEM SUBJECTS (ACE R22) - 2022 Batch

S NO	SYL CODE	REF CODE	NAME	INT MAX	EXT MAX	SUB TYPE	CRE DITS
CIVIL							
1	22CE601PC	EE	Environmental Engineering	40	60	Theory	3
2	22CE602PC	FE	Foundation Engineering	40	60	Theory	3
3	22CE603PC	SE-II	Structural Engineering - II (Steel Structures)	40	60	Theory	3
4	22CE611PE	GBT	Green Buildings Technologies (PE-1)	40	60	Theory	3
5	22EC611OE	FIOT	Fundamentals of Internet of Things (OE-I)	40	60	Theory	3
6	22CE604PC	EEL	Environmental Engineering Laboratory	40	60	Practical	1
7	22CE605PC	CAD LAB	Computer Aided Design Laboratory	40	60	Practical	1
8	22EN608HS	AECS LAB	Advanced English Communication Skills Laboratory	40	60	Practical	1
9	22CE607PC	IOMP	Industrial Oriented MiniProject/Summer Internship	0	100	Practical	2
10	22MC609	ES	Environmental Science	0	100	Practical	0
11	22MC602EC	FOAI	Fundamentals of AI	0	100	Practical	0
EEE							
1	22 EE601PC	DSP	Digital Signal Processing	40	60	Theory	3
2	22EE602PC	PSP	Power System Protection	40	60	Theory	3
3	22EE603PC	PSOC	Power System Operation and Control	40	60	Theory	3
4	22EE623PE	WSE	Wind and Solar Energy (PE-II)	40	60	Theory	3
5	22EC611OE	FIOT	Fundamentals of Internet of Things (OE-I)	40	60	Theory	3
6	22EE604PC	PS LAB	Power System Laboratory	40	60	Practical	1
7	22EE605PC	PE LAB	Power Electronics Laboratory	40	60	Practical	1
8	22EE606PC	DSP LAB	Digital Signal Processing Laboratory	40	60	Practical	1
9	22EE607PC	IOMP	Industrial Oriented MiniProject/Summer Internship	0	100	Practical	2
10	22MC609	ES	Environmental Science	0	100	Practical	0
11	22MC602EC	FOAI	Fundamentals of AI	0	100	Practical	0
MECH							
1	22ME601PC	MD	Machine Design	40	60	Theory	3
2	22ME602PC	HT	Heat Transfer	40	60	Theory	3
3	22ME603PC	FEM	Finite Element Methods	40	60	Theory	3
4	22ME611PE	UCMP	UnConventional Machining Processes (PE-I)	40	60	Theory	3
5	22EC611OE	FIOT	Fundamentals Of Internet Of Things (OE-I)	40	60	Theory	3
6	22ME604PC	HT LAB	Heat Transfer Laboratory	40	60	Practical	1
7	22ME605PC	CAE LAB	Computer Aided Engineering Laboratory	40	60	Practical	1
8	22EN608HS	AECS LAB	Advanced English Communication Skills Laboratory	40	60	Practical	1
9	22ME607PC	IOMP	Industrial Oriented MiniProject/Summer Internship	0	100	Practical	2
10	22MC609	ES	Environmental Science	0	100	Practical	0
11	22MC602EC	FOAI	Fundamentals of AI	0	100	Practical	0
ECE							
1	22EC601PC	AWP	Antennas and Wave Propagation	40	60	Theory	3
2	22EC602PC	DSP	Digital Signal Processing	40	60	Theory	3
3	22EC603PC	CMOS VLSI	CMOS VLSI Design	40	60	Theory	3
4	22EC623PE	ESD	Embedded System Design (PE-II)	40	60	Theory	3
5	22AM611OE	FOAI	Fundamentals of AI (OE-I)	40	60	Theory	3
6	22EC604PC	DSP LAB	Digital Signal Processing Laboratory	40	60	Practical	1
7	22EC605PC	CMOS VLSI LAB	CMOS VLSI Design Laboratory	40	60	Practical	1
8	22EC606PC	AC LAB	Advanced Communication Laboratory	40	60	Practical	1
9	22EC607PC	IOMP	Industrial Oriented MiniProject/Summer Internship	0	100	Practical	2
10	22MC609	ES	Environmental Science	0	100	Practical	0
CSE							
1	22DS602PC	ML	Machine Learning	40	60	Theory	3
2	22CS602PC	FLAT	Formal Languages and Automata Theory	40	60	Theory	3
3	22CS603PC	AI	Artificial Intelligence	40	60	Theory	3
4	22CS635PE	STM	Software Testing Methodologies (PE-III)	40	60	Theory	3
5	22EC611OE	FIOT	Fundamentals of Internet of Things (OE-I)	40	60	Theory	3

S NO	SYL CODE	REF CODE	NAME	INT MAX	EXT MAX	SUB TYPE	CRE DITS
6	22DS604PC	ML LAB	Machine Learning Laboratory	40	60	Practical	1
7	22CS605PC	AI LAB	Artificial Intelligence Laboratory	40	60	Practical	1
8	22CS615PE	STM LAB	Software Testing Methodologies Laboratory	40	60	Practical	1
9	22CS606PC	IOMP	Industrial Oriented MiniProject/Summer Internship	0	100	Practical	2
10	22MC609	ES	Environmental Science	0	100	Practical	0
11	22MC610	CS	Cyber Security	0	100	Practical	0
IT							
1	22IT601PC	ATCD	Automata Theory and Compiler Design	40	60	Theory	3
2	22IT602PC	ADA	Algorithms Design and Analysis	40	60	Theory	3
3	22IT603PC	ES	Embedded Systems	40	60	Theory	3
4	22IT632PE	DM	Data Mining (PE-III)	40	60	Theory	3
5	22DS611OE	FDS	Fundamentals Of Data Science (OE-I)	40	60	Theory	3
6	22IT604PC	CD LAB	Compiler Design Laboratory	40	60	Practical	1
7	22IT605PC	ES LAB	Embedded Systems Laboratory	40	60	Practical	1
8	22IT612PE	DM Laboratory	Data Mining Laboratory	40	60	Practical	1
9	22IT606PC	IOMP	Industrial Oriented MiniProject/Summer Internship	0	100	Practical	2
10	22MC609	ES	Environmental Science	0	100	Practical	0
11	22MC610	CS	Cyber Security	0	100	Practical	0
CSM							
1	22AM601PC	KRR	Knowledge Representation & Reasoning	40	60	Theory	3
2	22AM602PC	DA	Data Analytics	40	60	Theory	3
3	22AM603PC	NLP	Natural Language Processing	40	60	Theory	3
4	22AM622PE	IRS	Information Retrieval System (PE-II)	40	60	Theory	3
5	22EC611OE	FIOT	Fundamentals of Internet of Things (OE-I)	40	60	Theory	3
6	22AM604PC	NLP LAB	Natural Language Processing Laboratory	40	60	Practical	1.5
7	22AM605PC	DA LAB	Data Analytics Laboratory	40	60	Practical	1.5
8	22AM606PC	IOMP	Industrial Oriented MiniProject/Summer Internship	0	100	Practical	2
9	22MC609	ES	Environmental Science	0	100	Practical	0
10	22MC610	CS	Cyber Security	0	100	Practical	0
CSD							
1	22IT601PC	ATCD	Automata Theory and Compiler Design	40	60	Theory	3
2	22DS602PC	ML	Machine Learning	40	60	Theory	3
3	22DS603PC	BDA	Big Data Analytics	40	60	Theory	3
4	22DS632PE	DVT	Data Visualization Techniques (PE-III)	40	60	Theory	3
5	22CE611OE	DPPM	Disaster Preparedness & Planning Management (OE-I)	40	60	Theory	3
6	22DS604PC	ML LAB	Machine Learning Laboratory	40	60	Practical	1
7	22DS605PC	BDA LAB	Big Data Analytics Laboratory	40	60	Practical	1
8	22CD612PE	DVT LAB	Data Visualization Techniques Laboratory	40	60	Practical	1
9	22DS606PC	IOMP	Industrial Oriented MiniProject/Summer Internship	0	100	Practical	2
10	22MC609	ES	Environmental Science	0	100	Practical	0
11	22MC610	CS	Cyber Security	0	100	Practical	0
CSO							
1	22IO601PC	IOTS	IoT Security	40	60	Theory	3
2	22IO602PC	CVR	Computer Vision and Robotics	40	60	Theory	3
3	22IO603PC	IOTCP	IoT Cloud Processing and Analysis	40	60	Theory	3
4	22IO621PE	ML	Machine Learning (PE-II)	40	60	Theory	3
5	22EC611OE	FIOT	Fundamentals of Internet of Things (OE-I)	40	60	Theory	3
6	22IO604PC	IOTS LAB	IoT Security Laboratory	40	60	Practical	1.5
7	22IO605PC	CV LAB	Computer Vision Laboratory	40	60	Practical	1.5
8	22IO607PC	IOMP	Industrial Oriented MiniProject/Summer Internship	0	100	Practical	2
9	22MC609	ES	Environmental Science	0	100	Practical	0
10	22MC610	CS	Cyber Security	0	100	Practical	0