

SAHE- B.Tech – SU24 CourseStructure (2nd year)

MECHANICAL ENGINEERING

Semester-III

CONTACT HOURS: 25

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA201	BS	Probability & Statistics for Engineers(CE/ME)	4	0	0	4
2	24EE211	ES	Electrical & Electronics Engineering	3	0	0	3
3	24ME201	PC	Mechanics of Materials	3	0	0	3
4	24ME202	PC	Engineering Thermodynamics	3	0	0	3
5	24ME203	PC	Kinematics of Machines	3	0	0	3
6	24ME281	PC	Solid Modelling Lab	0	0	3	1.5
7	24EE285	ES	Electrical and Electronics Engineering Lab	0	0	3	1.5
8	24UC201	HS	Universal Human Values-II	2	1	0	3
Total				18	1	6	22

Semester-IV

CONTACT HOURS: 29

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24ME204	ES	Engineering Materials & Metallurgy	3	0	0	3
2	24ME205	PC	Fluid Mechanics and Hydraulic Machines	3	1	0	4
3	24ME206	PC	Dynamics of Machinery	3	1	0	4
4	24ME207	PC	Manufacturing Processes	3	0	0	3
5	24ME208	PC	Applied Thermodynamics	3	0	2	4
6	24ME283	PC	SM&FM Lab	0	0	3	1.5
7	24ME284	PC	Manufacturing Process Lab	0	0	3	1.5
8	24EN281	HS	English for Professionals	0	0	2	1
9	24UC202	MC	Professional Ethics	2	0	0	0
Total				17	2	10	22

SAHE- B.Tech – SU24 Course Structure (2nd year)

CIVIL ENGINEERING

Semester-III

CONTACT HOURS: 24

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA201	BS	Probability & Statistics for Engineers (CE/ME)	4	0	0	4
2	24CE201	ES	Mechanics of Solids	3	1	0	4
3	24CE202	PC	Surveying & Geomatics	3	0	0	3
4	24CE203	PC	Fluid Mechanics	3	0	0	3
5	24CE204	PC	Building Materials & Construction Technology	3	0	0	3
6	24CE281	PC	Strength of Materials Lab.	0	0	2	1
7	24CE282	PC	Surveying Laboratory	0	0	2	1
8	24UC201	HS	Universal Human Values-II	2	1	0	3
Total				18	2	4	22

Semester-IV

CONTACT HOURS: 28

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24CE205	ES	Engineering Geology	2	0	0	2
2	24CE206	PC	Environmental Engineering	3	0	0	3
3	24CE207	PC	Geotechnical Engineering	3	0	0	3
4	24CE208	PC	Hydraulics & Hydraulic Machines	3	0	0	3
5	24CE209	PC	Structural Analysis	3	1	0	4
6	24CE210	PC	Concrete Technology	3	0	0	3
7	24CE283	PC	Concrete Technology Laboratory	0	0	2	1
8	24CE284	PC	Fluid Mechanics & Hydraulic Machines Lab	0	0	2	1
9	24CE285	PC	Computer Aided Civil Engg. Drawing	0	0	2	1
10	24EN281	HS	English for Professionals	0	0	2	1
11	24UC202	MC	Professional Ethics	2	0	0	0
Total				19	1	8	22

SAHE- B.Tech – SU24 CourseStructure (2nd year)

ELECTRONICS & COMMUNICATION ENGINEERING

Semester-III

CONTACT HOURS: 28

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA202	BS	Complex Analysis, Transform Techniques & Statistics (EEE/ECE/EIE)	4	0	0	4
2	24CS211	ES	Data Structures using C	3	0	0	3
3	24EC201	PC	Analog Electronics – I	3	0	0	3
4	24EC202	PC	Digital Circuit Design	3	0	0	3
5	24EC203	PC	Signals & Systems	3	0	0	3
6	24EC281	PC	Analog Electronics – I Lab	0	0	3	1.5
7	24EC282	PC	Digital Circuit Design Lab	0	0	3	1.5
8	24CS285	ES	Data Structures using C Lab	0	0	3	1.5
9	24UC201	HS	Universal Human Values-II	2	1	0	3
Total				18	1	9	23.5

Semester-IV

CONTACT HOURS: 28

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24EC204	ES	Random Variables and Stochastic Process	3	0	0	3
2	24EC205	PC	Analog Electronics – II	3	0	0	3
3	24EC206	PC	Analog & Digital Communications	3	0	0	3
4	24EC207	PC	EM Waves and TL	3	0	0	3
5	24EC208	PC	Microcontrollers	3	0	0	3
6	24EC284	PL	Analog Electronics – II Lab	0	0	3	1.5
7	24EC285	PC	Analog & Digital Communications Lab	0	0	3	1.5
8	24EC286	PC	Microcontrollers Lab	0	0	3	1.5
9	24EN281	HS	English for Professionals	0	0	2	1
10	24UC202	MC	Professional Ethics	2	0	0	0
Total				17	0	11	20.5

SAHE- B.Tech – SU24 CourseStructure (2nd year)

ELECTRONICS & INSTRUMENTATION ENGINEERING

Semester-III

CONTACT HOURS: 27

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA202	BS	Complex Analysis, Transform Techniques & Statistics (EEE/ECE/EIE)	4	0	0	4
2	24EI201	ES	Electronics Devices & Circuits	3	0	0	3
3	24EI202	PC	Electrical & Electronic Measurements	3	0	0	3
4	24EI203	PC	Digital Electronics	3	0	2	4
5	24EI204	PC	Sensors and Transducers	3	0	0	3
6	24EI281	PC	Measurements Lab	0	0	3	1.5
7	24EI282	ES	Electronic Devices & Circuits Lab	0	0	3	1.5
8	24UC201	HS	Universal Human Values-II	2	1	0	3
Total				18	1	8	23

Semester-IV

CONTACT HOURS: 32

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24EI205	ES	Control Systems PR	3	0	2	4
2	24EI206	PC	Signals & Systems	3	0	0	3
3	24EI207	PC	Industrial Instrumentation	3	0	0	3
4	24EI208	PC	Linear Integrated Circuits	3	1	0	3
5	24EI209	PC	Microprocessors and Interfacing	3	0	2	3
6	24EI283	PC	Transducers Lab	0	0	3	1.5
7	24EI284	PC	Linear Integrated Circuits Lab	0	0	3	1.5
8	24EI285	PC	Microprocessors and Interfacing Lab	0	0	2	1
9	24EN281	HS	English for Professionals	0	0	2	1
10	24UC202	MC	Professional Ethics	2	0	0	0
Total				17	1	14	21

SAHE- B.Tech – SU24 CourseStructure (2nd year)**ELECTRICAL & ELECTRONICS ENGINEERING****Semester-III****CONTACT HOURS: 26**

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA202	BS	Complex Analysis, Transform Techniques & Statistics (EEE/ECE/EIE)	4	0	0	4
2	24EE201	ES	AC Network Analysis	2	0	2	3
3	24EE202	PC	Analog Electronics	3	0	0	3
4	24EE203	PC	DC Machines & Transformers	3	0	0	3
5	24EE204	PC	Digital Electronics	3	0	0	3
6	24EE281	PC	DC Machines & Transformers Lab	0	0	3	1.5
7	24EE282	ES	Analog & Digital Electronics Lab	0	0	3	1.5
8	24UC201	HS	Universal Human Values-II	2	1	0	3
Total				17	1	8	22

Semester-IV**CONTACT HOURS: 30**

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24EE205	ES	Electrical Measurements and Sensors	3	0	0	3
2	24EE206	PC	Power Generation and Transmission	3	0	0	3
3	24EE207	PC	Linear integrated Circuits & Applications	3	0	2	4
4	24EE208	PC	AC Machines	3	1	0	4
5	24EE209	PC	Linear Control Systems	3	0	2	4
6	24EE283	PC	AC Machines Lab	0	0	3	1.5
7	24EE284	PC	Electrical Measurements and Control Systems Lab	0	0	3	1.5
8	24EN281	HS	English for Professionals	0	0	2	1
9	24UC202	MC	Professional Ethics	2	0	0	0
Total				17	1	12	22

SAHE- B.Tech – SU24 CourseStructure (2nd year)

COMPUTER SCIENCE & ENGINEERING

Semester-III

CONTACT HOURS: 27

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA203	BS	Probability & Statistics (CSE+/IT)	4	0	0	4
2	24CS201	ES	Digital Logic and Design	3	0	0	3
3	24CS202	PC	Object Oriented Programming through java	3	0	0	3
4	24CS203	PC	Software Engineering	3	0	0	3
5	24CS204	PC	Operating Systems	3	0	2	4
6	24CS281	PC	Object Oriented Programming Through Java Lab	0	0	3	1.5
7	24CS282	ES	Digital Logic and Design Lab	0	0	3	1.5
8	24UC201	HS	Universal Human Values-II	2	1	0	3
Total				18	1	8	23

Semester-IV

CONTACT HOURS: 28

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA204	BS	Discrete Mathematics (CSE+/IT)	3	1	0	4
2	24CS205	PC	Database Management Systems	3	0	0	3
3	24CS206	PC	Design and Analysis of Algorithms	3	0	0	3
4	24CS207	PC	Computer Organization & Architecture	3	0	2	4
5	24CS208	PC	Web Technologies	3	0	2	4
6	24CS283	PC	DBMS Lab	0	0	2	1
7	24CS284	PC	Design & Analysis of Algorithms Lab	0	0	2	1
8	24EN281	HS	English for Professionals	0	0	2	1
9	24UC202	MC	Professional Ethics	2	0	0	0
Total				17	1	10	21

SAHE- B.Tech – SU24 CourseStructure (2nd year)

COMPUTER SCIENCE & ENGINEERING(AI&DS)

Semester-III

CONTACT HOURS: 27

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA203	BS	Probability & Statistics (CSE+/IT)	4	0	0	4
2	24CS201	ES	Digital Logic and Design	3	0	0	3
3	24CS202	PC	Object Oriented Programming through java	3	0	0	3
4	24CS203	PC	Software Engineering	3	0	0	3
5	24CS204	PC	Operating Systems	3	0	2	4
6	24CS281	PC	Object Oriented Programming Through Java Lab	0	0	3	1.5
7	24CS282	ES	Digital Logic and Design Lab	0	0	3	1.5
8	24UC201	HS	Universal Human Values-II	2	1	0	3
Total				18	1	8	23

Semester-IV

CONTACT HOURS: 29

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA204	BS	Discrete Mathematics (CSE+/IT)	3	0	0	3
2	24CS205	PC	Database Management Systems	3	0	0	3
3	24CS206	PC	Design and Analysis of Algorithms	3	0	0	3
4	24CS207	PC	Computer Organization & Architecture	3	0	2	4
5	24CS209	PC	Artificial Intelligence(AI ML + AIDS)	3	0	2	4
6	24CS283	PC	DBMS Lab	0	0	3	1.5
7	24CS284	PC	Design & Analysis of Algorithms Lab	0	0	3	1.5
8	24EN281	HS	English for Professionals	0	0	2	1
9	24UC202	MC	Professional Ethics	2	0	0	0
Total				17	0	12	21

SAHE- B.Tech – SU24 CourseStructure (2nd year)**COMPUTER SCIENCE & ENGINEERING(AI&ML)****Semester-III****CONTACT HOURS: 27**

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA203	BS	Probability & Statistics (CSE+/IT)	4	0	0	4
2	24CS201	ES	Digital Logic and Design	3	0	0	3
3	24CS202	PC	Object Oriented Programming through java	3	0	0	3
4	24CS203	PC	Software Engineering	3	0	0	3
5	24CS204	PC	Operating Systems	3	0	2	4
6	24CS281	PC	Object Oriented Programming Through Java Lab	0	0	3	1.5
7	24CS282	ES	Digital Logic and Design Lab	0	0	3	1.5
8	24UC201	HS	Universal Human Values-II	2	1	0	3
Total				18	1	8	23

Semester-IV**CONTACT HOURS: 29**

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA204	BS	Discrete Mathematics (CSE+/IT)	3	0	0	3
2	24CS205	PC	Database Management Systems	3	0	0	3
3	24CS206	PC	Design and Analysis of Algorithms	3	0	0	3
4	24CS207	PC	Computer Organization & Architecture	3	0	2	4
5	24CS209	PC	Artificial Intelligence(AI ML + AIDS)	3	0	2	4
6	24CS283	PC	DBMS Lab	0	0	3	1.5
7	24CS284	PC	Design & Analysis of Algorithms Lab	0	0	3	1.5
8	24EN281	HS	English for Professionals	0	0	2	1
9	24UC202	MC	Professional Ethics	2	0	0	0
Total				17	0	12	21

SAHE- B.Tech – SU24 Course Structure (2nd year)

INFORMATION TECHNOLOGY

Semester-III

CONTACT HOURS: 28

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA203	BS	Probability & Statistics (CSE+/IT)	4	0	0	4
2	24IT201	ES	Advanced Data Structures and Algorithms	3	0	0	3
3	24IT202	PC	Operating Systems	2	0	2	3
4	24IT203	PC	Computer Organization and Architecture	3	0	0	3
5	24IT204	PC	Object Oriented Programming through C++	3	0	0	3
6	24IT281	PC	Object Oriented Programming - C++ Lab	0	0	3	1.5
7	24IT282	ES	Adv. Data Structures Lab	0	0	3	1.5
8	24IT283	PC	Web Programming	0	0	2	1
9	24UC201	HS	Universal Human Values-II	2	1	0	3
Total				17	1	10	23

Semester-IV

CONTACT HOURS: 28

S.No	Course Code	Course Category	Course Name	L	T	P	Credits
1	24MA204	BS	Discrete Mathematics (CSE+/IT)	3	1	0	4
2	24IT205	PC	Software Engineering	3	0	0	3
3	24IT206	PC	Database Management Systems	3	0	0	3
4	24IT207	PC	Computer Networks	3	0	0	3
5	24IT208	PC	Java Programming	3	0	0	3
6	24IT284	PC	Database Management Systems Lab	0	0	3	1.5
7	24IT285	PC	Java Programming Lab	0	0	3	1.5
8	24IT286	PC	Advanced Programming Lab -I	0	0	2	1
9	24EN281	HS	English for Professionals	0	0	2	1
10	24UC202	MC	Professional Ethics	2	0	0	0
Total				17	1	10	21