

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in ELECTRONICS AND COMMUNICATION ENGINEERING
COURSE STRUCTURE, I & II YEAR SYLLABUS (R22 Regulations)
Applicable from AY 2022-23 Batch

I Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	MA101BS	Matrices and Calculus	3	1	0	4
2.	PH102BS	Applied Physics	3	1	0	4
3.	EC103ES	C Programming for Engineers	3	0	0	3
4.	ME104ES	Engineering Workshop	0	1	3	2.5
5.	EN105HS	English for Skill Enhancement	2	0	0	2
6.	EC106ES	Elements of Electronics and Communication Engineering	0	0	2	1
7.	PH107BS	Applied Physics Laboratory	0	0	3	1.5
8.	EC108ES	C Programming for Engineers Laboratory	0	0	2	1
9.	EN109HS	English Language and Communication Skills Laboratory	0	0	2	1
10.	*MC110	Environmental Science	3	0	0	0
		Induction Programme				
Total			14	3	12	20

I Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	CH202BS	Engineering Chemistry	3	1	0	4
3.	ME203ES	Computer Aided Engineering Graphics	1	0	4	3
4.	EE204ES	Basic Electrical Engineering	2	0	0	2
5.	EC205ES	Electronic Devices and Circuits	2	0	0	2
6.	EC206ES	Applied Python Programming Laboratory	0	1	2	2
7.	CH207BS	Engineering Chemistry Laboratory	0	0	2	1
8.	EE208ES	Basic Electrical Engineering Laboratory	0	0	2	1
9.	EC209ES	Electronic Devices and Circuits Laboratory	0	0	2	1
Total			11	3	12	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Numerical Methods and Complex Variables	3	1	0	4
2		Analog Circuits	3	0	0	3
3		Network analysis and Synthesis	3	0	0	3
4		Digital Logic Design	3	0	0	3
5		Signals and Systems	3	1	0	4
6		Analog Circuits Laboratory	0	0	2	1
7		Digital logic Design Laboratory	0	0	2	1
8		Basic Simulation Laboratory	0	0	2	1
9	*MC	Constitution of India	3	0	0	0
Total Credits			18	2	6	20


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in ELECTRICAL AND ELECTRONICS ENGINEERING
I YEAR COURSE STRUCTURE & SYLLABUS (R22 Regulations)
Applicable from AY 2022-23 Batch

I Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Matrices and Calculus	3	1	0	4
2	CH102BS	Engineering Chemistry	3	1	0	4
3	EE103ES	C Programming and Data Structures	3	0	0	3
4	EE105ES	Electrical Circuit Analysis – I	3	0	0	3
5	ME105ES	Computer Aided Engineering Graphics	1	0	4	3
6	EE106ES	Elements of Electrical and Electronics Engineering	0	0	2	1
7	CH107BS	Engineering Chemistry Laboratory	0	0	2	1
8	EE108ES	C Programming and Data Structures Laboratory	0	0	2	1
		Induction Program				
		Total Credits	13	2	10	20

I Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2	PH202BS	Applied Physics	3	1	0	4
3	ME203ES	Engineering Workshop	0	1	3	2.5
4	EN204HS	English for Skill Enhancement	2	0	0	2
5	EE205ES	Electrical Circuit Analysis - II	2	0	0	2
6	EE206ES	Applied Python Programming Laboratory	0	1	2	2
7	PH207BS	Applied Physics Laboratory	0	0	3	1.5
8	EN208HS	English Language and Communication Skills Laboratory	0	0	2	1
9	EE209ES	Electrical Circuit Analysis Laboratory	0	0	2	1
10	*MC210	Environmental Science	3	0	0	0
		Total Credits	13	2	14	20



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in COMPUTER SCIENCE AND ENGINEERING (AI & ML)
COURSE STRUCTURE, I & II YEAR SYLLABUS (R22 Regulations)
Applicable from AY 2022-23 Batch

I YEAR I SEMESTER

S. No.	Course Code	Course	L	T	P	Credits
1.	MA101BS	Matrices and Calculus	3	1	0	4
2.	PH102BS	Applied Physics	3	1	0	4
3.	CS103ES	Programming for Problem Solving	3	0	0	3
4.	ME104ES	Engineering Workshop	0	1	3	2.5
5.	EN105HS	English for Skill Enhancement	2	0	0	2
6.	CS106ES	Elements of Computer Science & Engineering	0	0	2	1
7.	PH107BS	Applied Physics Laboratory	0	0	3	1.5
8.	CS108ES	Programming for Problem Solving Laboratory	0	0	2	1
9.	EN109HS	English Language and Communication Skills Laboratory	0	0	2	1
10.	*MC110	Environmental Science	3	0	0	0
		Induction Program				
Total			14	3	12	20

I YEAR II SEMESTER

S. No.	Course Code	Course	L	T	P	Credits
1.	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	CH202BS	Engineering Chemistry	3	1	0	4
3.	ME203ES	Computer Aided Engineering Graphics	1	0	4	3
4.	EE204ES	Basic Electrical Engineering	2	0	0	2
5.	EC205ES	Electronic Devices and Circuits	2	0	0	2
6.	CS206ES	Python Programming Laboratory	0	1	2	2
7.	CH207BS	Engineering Chemistry Laboratory	0	0	2	1
8.	EE208ES	Basic Electrical Engineering Laboratory	0	0	2	1
9.	CS209ES	IT Workshop	0	0	2	1
Total			11	3	12	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Mathematical and Statistical Foundations	3	1	0	4
2		Data Structures	3	0	0	3
3		Computer Organization and Architecture	3	0	0	3
4		Software Engineering	3	0	0	3
5		Operating Systems	3	0	0	3
6		Introduction to Data Structures Lab	0	0	2	1
7		Operating Systems Lab	0	0	2	1
8		Software Engineering Lab	0	0	2	1
9		Node JS/ React JS/ Django	0	0	2	1
	*MC	Constitution of India	3	0	0	0
Total			18	0	10	20

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)
COURSE STRUCTURE, I & II YEAR SYLLABUS (R22 Regulations)

Applicable from AY 2022-23 Batch

I Year I Semester

S. No.	Course Code	Course	L	T	P	Credits
1.	MA101BS	Matrices and Calculus	3	1	0	4
2.	CH102BS	Engineering Chemistry	3	1	0	4
3.	CS103ES	Programming for Problem Solving	3	0	0	3
4.	EE104ES	Basic Electrical Engineering	2	0	0	2
5.	ME105ES	Computer Aided Engineering Graphics	1	0	4	3
6.	CS106ES	Elements of Computer Science & Engineering	0	0	2	1
7.	CH107BS	Engineering Chemistry Laboratory	0	0	2	1
8.	CS108ES	Programming for Problem Solving Laboratory	0	0	2	1
9.	EE109ES	Basic Electrical Engineering Laboratory	0	0	2	1
		Induction Program				
		Total	12	2	12	20

I Year II Semester

S. No.	Course Code	Course	L	T	P	Credits
1.	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	PH202BS	Applied Physics	3	1	0	4
3.	ME203ES	Engineering Workshop	0	1	3	2.5
4.	EN204HS	English for Skill Enhancement	2	0	0	2
5.	EC205ES	Electronic Devices and Circuits	2	0	0	2
6.	CS206ES	Python Programming Laboratory	0	1	2	2
7.	PH207BS	Applied Physics Laboratory	0	0	3	1.5
8.	EN208HS	English Language and Communication Skills Laboratory	0	0	2	1
9.	CS209ES	IT Workshop	0	0	2	1
10.	*MC210	Environmental Science	3	0	0	0
		Total	13	4	12	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Digital Electronics	3	0	0	3
2		Data Structures	3	0	0	3
3		Computer Oriented Statistical Methods	3	1	0	4
4		Computer Organization and Architecture	3	0	0	3
5		Object Oriented Programming through Java	3	0	0	3
6		Data Structures Lab	0	0	3	1.5
7		Object Oriented Programming through Java Lab	0	0	3	1.5
8		Data visualization- R Programming/ Power BI	0	0	2	1
9	*MC	Gender Sensitization Lab	0	0	2	0
		Total	15	1	10	20

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B.Tech. in COMPUTER SCIENCE AND ENGINEERING
COURSE STRUCTURE, I & II YEAR SYLLABUS (R22 Regulations)
Applicable from AY 2022-23 Batch

I Year I Semester

S. No.	Course Code	Course	L	T	P	Credits
1.	MA101BS	Matrices and Calculus	3	1	0	4
2.	CH102BS	Engineering Chemistry	3	1	0	4
3.	CS103ES	Programming for Problem Solving	3	0	0	3
4.	EE104ES	Basic Electrical Engineering	2	0	0	2
5.	ME105ES	Computer Aided Engineering Graphics	1	0	4	3
6.	CS106ES	Elements of Computer Science & Engineering	0	0	2	1
7.	CH107BS	Engineering Chemistry Laboratory	0	0	2	1
8.	CS108ES	Programming for Problem Solving Laboratory	0	0	2	1
9.	EE109ES	Basic Electrical Engineering Laboratory	0	0	2	1
		Induction Program				
Total			12	2	12	20

I Year II Semester

S. No.	Course Code	Course	L	T	P	Credits
1.	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	PH202BS	Applied Physics	3	1	0	4
3.	ME203ES	Engineering Workshop	0	1	3	2.5
4.	EN204HS	English for Skill Enhancement	2	0	0	2
5.	EC205ES	Electronic Devices and Circuits	2	0	0	2
6.	CS206ES	Python Programming Laboratory	0	1	2	2
7.	PH207BS	Applied Physics Laboratory	0	0	3	1.5
8.	EN208HS	English Language and Communication Skills Laboratory	0	0	2	1
9.	CS209ES	IT Workshop	0	0	2	1
10.	*MC210	Environmental Science	3	0	0	0
Total			13	4	12	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Digital Electronics	3	0	0	3
2		Data Structures	3	0	0	3
3		Computer Oriented Statistical Methods	3	1	0	4
4		Computer Organization and Architecture	3	0	0	3
5		Object Oriented Programming through Java	3	0	0	3
6		Data Structures Lab	0	0	3	1.5
7		Object Oriented Programming through Java Lab	0	0	3	1.5
8		Data visualization- R/Programming/ Power BI	0	0	2	1
9	*MC	Gender Sensitization Lab	0	0	2	0
Total			15	1	10	20

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in MECHANICAL ENGINEERING
COURSE STRUCTURE, I & II YEAR SYLLABUS (R22 Regulations)
Applicable from AY 2022-23 Batch

I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.	MA101BS	Matrices and Calculus	3	1	0	4
2.	PH102BS	Applied Physics	3	1	0	4
3.	ME103ES	C Programming and Data Structures	3	0	0	3
4.	ME104ES	Engineering Workshop	0	1	3	2.5
5.	EN105HS	English for Skill Enhancement	2	0	0	2
6.	ME106ES	Elements of Mechanical Engineering	0	0	2	1
7.	PH107BS	Applied Physics Laboratory	0	0	3	1.5
8.	ME108ES	C Programming and Data Structures Laboratory	0	0	2	1
9.	EN109HS	English Language and Communication Skills Laboratory	0	0	2	1
10.	*MC110	Environmental Science	3	0	0	0
		Induction Programme				
Total			14	3	12	20

I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	CH202BS	Engineering Chemistry	3	1	0	4
3.	ME203ES	Computer Aided Engineering Graphics	1	0	4	3
4.	ME204ES	Engineering Mechanics	3	0	0	3
5.	ME205PC	Engineering Materials	2	0	0	2
6.	ME206ES	Python Programming Laboratory	0	1	2	2
7.	CH207BS	Engineering Chemistry Laboratory	0	0	2	1
8.	ME208PC	Fuels & Lubricants Laboratory	0	0	2	1
Total			12	3	10	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Probability, Statistics & Complex Variables	3	1	0	4
2.		Mechanics of Solids	3	0	0	3
3.		Metallurgy & Material Science	3	0	0	3
4.		Production Technology	3	0	0	3
5.		Thermodynamics	3	1	0	4
6.		Production Technology Laboratory	0	0	2	1
7.		Material Science & Mechanics of Solids Laboratory	0	0	2	1
8.		Computer Aided Machine Drawing	0	0	2	1
9.	*MC	Constitution of India	3	0	0	0
Total Credits			18	2	6	20

II YEAR II SEMESTER

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ENVIRONMENTAL SCIENCE

B.Tech. I Year I Sem.

L	T	P	C
3	0	0	0

Course Objectives:

- Understanding the importance of ecological balance for sustainable development.
- Understanding the impacts of developmental activities and mitigation measures.
- Understanding the environmental policies and regulations

Course Outcomes:

- Based on this course, the Engineering graduate will understand /evaluate / develop technologies on the basis of ecological principles and environmental regulations which in turn helps in sustainable development

UNIT - I

Ecosystems: Definition, Scope, and Importance of ecosystem. Classification, structure, and function of an ecosystem, Food chains, food webs, and ecological pyramids. Flow of energy, Biogeochemical cycles, Bioaccumulation, Biomagnification, ecosystem value, services and carrying capacity, Field visits.

UNIT - II

Natural Resources: Classification of Resources: Living and Non-Living resources, **water resources:** use and over utilization of surface and ground water, floods and droughts, Dams: benefits and problems. **Mineral resources:** use and exploitation, environmental effects of extracting and using mineral resources, **Land resources:** Forest resources, **Energy resources:** growing energy needs, renewable and non-renewable energy sources, use of alternate energy source, case studies.

UNIT - III

Biodiversity and Biotic Resources: Introduction, Definition, genetic, species and ecosystem diversity. Value of biodiversity; consumptive use, productive use, social, ethical, aesthetic and optional values. India as a mega diversity nation, Hot spots of biodiversity. Field visit. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts; conservation of biodiversity: In-Situ and Ex-situ conservation. National Biodiversity act.

UNIT - IV

Environmental Pollution and Control Technologies: Environmental Pollution: Classification of pollution, **Air Pollution:** Primary and secondary pollutants, Automobile and Industrial pollution, Ambient air quality standards. **Water pollution:** Sources and types of pollution, drinking water quality standards. **Soil Pollution:** Sources and types, Impacts of modern agriculture, degradation of soil. **Noise Pollution:** Sources and Health hazards, standards, **Solid waste:** Municipal Solid Waste management, composition and characteristics of e-Waste and its management. **Pollution control technologies:** Wastewater Treatment methods: Primary, secondary and Tertiary. Overview of air pollution control technologies, Concepts of bioremediation. **Global Environmental Issues and Global Efforts:** Climate change and impacts on human environment. Ozone depletion and Ozone depleting substances (ODS). Deforestation and desertification. International conventions / Protocols: Earth summit, Kyoto protocol, and Montréal Protocol. NAPCC-Gol Initiatives.

UNIT - V

Environmental Policy, Legislation & EIA: Environmental Protection act, Legal aspects Air Act-1981, Water Act, Forest Act, Wild life Act, Municipal solid waste management and handling rules, biomedical waste management and handling rules, hazardous waste management and handling rules. EIA: EIA structure, methods of baseline data acquisition. Overview on Impacts of air, water,

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biological and Socio-economical aspects. Strategies for risk assessment, Concepts of Environmental Management Plan (EMP). **Towards Sustainable Future:** Concept of Sustainable Development Goals, Population and its explosion, Crazy Consumerism, Environmental Education, Urban Sprawl, Human health, Environmental Ethics, Concept of Green Building, Ecological Foot Print, Life Cycle assessment (LCA), Low carbon life style.

TEXT BOOKS:

- 1 Textbook of Environmental Studies for Undergraduate Courses by Erach Bharucha for University Grants Commission.
- 2 Environmental Studies by R. Rajagopalan, Oxford University Press.

REFERENCE BOOKS:

1. Environmental Science: towards a sustainable future by Richard T. Wright. 2008 PHL Learning Private Ltd. New Delhi.
2. Environmental Engineering and science by Gilbert M. Masters and Wendell P. Ela. 2008 PHI Learning Pvt. Ltd.
3. Environmental Science by Daniel B. Botkin & Edward A. Keller, Wiley INDIA edition.
4. Environmental Studies by Anubha Kaushik, 4th Edition, New age international publishers.
5. Text book of Environmental Science and Technology - Dr. M. Anji Reddy 2007, BS Publications.
6. Introduction to Environmental Science by Y. Anjaneyulu, BS. Publications.


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ENVIRONMENTAL SCIENCE

Course Objectives:

- Understanding the importance of ecological balance for sustainable development.
- Understanding the impacts of developmental activities and mitigation measures.
- Understanding the environmental policies and regulations

Course Outcomes:

- Based on this course, the Engineering graduate will understand /evaluate / develop technologies on the basis of ecological principles and environmental regulations which in turn helps in sustainable development

TEXT BOOKS:

- 1 Textbook of Environmental Studies for Undergraduate Courses by Erach Bharucha for University Grants Commission.
- 2 Environmental Studies by R. Rajagopalan, Oxford University Press.

REFERENCE BOOKS:

1. Environmental Science: towards a sustainable future by Richard T. Wright. 2008 PHL Learning Private Ltd. New Delhi.
2. Environmental Engineering and science by Gilbert M. Masters and Wendell P. Ela. 2008 PHILearning Pvt. Ltd.
3. Environmental Science by Daniel B. Botkin & Edward A. Keller, Wiley INDIA edition.
4. Environmental Studies by Anubha Kaushik, 4th Edition, New age international publishers.
5. Text book of Environmental Science and Technology - Dr. M. Anji Reddy 2007, BS Publications.
6. Introduction to Environmental Science by Y. Anjaneyulu, BS. Publications

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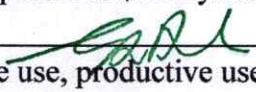
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Subject: Environmental Science		AY:2022-23		
Department of H&S				
Semester: I-I	Section: ECE-A			
Prepared by: P.Venkat swamy				
LESSON PLAN				
Content Delivery Methods:				
M1: Lecture interspersed with discussion				
M2: Guest Lecture				
M3: Assignments				
Unit	Number of Periods	Description of the content	Delivery method	Teaching Aid
I	1	Definition, Scope, and Importance of ecosystem.	M1	BB
I	1	Classification, structure, and function of an ecosystem,	M1	BB
I	2	Food chains, food webs, and ecological pyramids	M1	BB
I	1	Flow of energy, Biogeochemical cycles, Bioaccumulation	M1	BB
I	1	Bio magnification, ecosystem value, services and carrying capacity, Field visits.	M3	BB
II	2	Living and Non-Living resources, water resources: use and over utilization of surface and ground water, floods and droughts,	M1	BB
II	2	Dams: benefits and problems. Mineral resources: use and exploitation, environmental effects of extracting and using mineral resources	M2	BB
II	2	Land resources: Forest resources	M1	BB
II	1	Energy resources: growing energy needs, renewable and non-renewable energy sources	M1	BB
II	1	use of alternate energy source, case studies.	M2	BB
III	2	Introduction, Definition, genetic, species and ecosystem diversity.	M3	BB
III	2	Value of biodiversity; consumptive use, productive use, social, ethical, aesthetic and optional values	M1	BB


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III	2	India as a mega diversity nation, Hot spots of biodiversity. Field visit.	M1	BB
III	1	Threats to biodiversity: habitat loss,	M1	BB
III	1	poaching of wildlife, man-wildlife conflicts; conservation of biodiversity: In- Situ and Ex-situ conservation.	M3	BB
III	1	National Biodiversity act.	M1	BB
IV	3	Environmental Pollution: Classification of pollution, Air Pollution: Primary and secondary pollutants, Automobile and Industrial pollution, Ambient air quality standards.	M1	BB
IV	3	Water pollution: Sources and types of pollution, drinking water quality	M3	BB
		standards. Soil Pollution: Sources and types, Impacts of modern agriculture, degradation of soil. Noise Pollution: Sources and Health hazards, standards, Solid waste: Municipal Solid Waste management, composition and characteristics of e-Waste and its management.		
IV	3	Pollution control technologies: Wastewater Treatment methods: Primary, secondary and Tertiary.	M1	BB
		Overview of air pollution control technologies, Concepts of bioremediation. Global Environmental Issues and Global Efforts: Climate change and impacts on human environment. Ozone depletion and Ozone depleting substances (ODS). Deforestation and desertification. International conventions / Protocols: Earth summit, Kyoto protocol, and Montréal Protocol. NAPCC-GoI Initiatives.		
V	2	Environmental Protection act, Legal aspects Air Act- 1981, Water Act, Forest Act, Wild life Act,	M1	BB
V	2	Municipal solid waste management and handling rules, biomedical waste management and handling rules, hazardous waste management and handling rules. EIA: EIA structure,	M3	BB
V	2	methods of baseline data acquisition. Overview on Impacts of air, water, biological and Socio-economical aspects. Strategies for risk assessment, Concepts of Environmental Management Plan (EMP).	M1	BB
V	2	Towards Sustainable Future: Concept of Sustainable Development Goals, Population and its explosion, Crazy Consumerism	M2	BB



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V	1	total internal reflection construction of optical fiber - acceptance angle - numerical aperture	M1	BB
V	2	Environmental Education, Urban Sprawl, Human health, Environmental Ethics, Concept of Green Building, Ecological Foot Print, Life Cycle assessment (LCA), Low carbon life style.	M3	BB

[Signature]
Head of the Department
Humanities Sciences
Avanathi Institute of Engineering & Technology
Gunthapally (VIII), Abdullapur Met (Mdi),
Ranga Reddy District.

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A.Y 2022-23 TIME TABLE


I B. Tech ECE-A I- SEM


W.E. F:03-11-2022

COLLEGE TIMINGS: 09.30AM –03.50PM

DAY	9:30 - 10:20	10:20- 11:10	11:10- 12:00	12:00- 12:30	12:30- 01:20	01:20- 02:10	02:10-03:00	03:00- 03:50
MON	CPE	MC	ESE	Lunch Break	ESE	AP LAB/CPE LAB		
TUE	EW LAB/ELCS LAB				AP	MC	MC	ESE
WED	CPE	AP	CPE		EECE			ES
THU	AP LAB/CPE LAB				CPE	MC	SPORTS	
FRI	MC	CPE	ESE		ES	EW LAB/ELCS LAB		
SAT	ESE	AP	MC		MC	AP	LIBRARY	CPE

Subject Name	Faculty Name	Designation
Matrices And Calculus (Mc)	A.Anjaneyulu	Assistant Professor
Applied Physics (Ap)	G. Laxminarayana	Assistant Professor
C Programming for Engineers (CPE)	B. Shailaja	Assistant Professor
Engineering Workshop (Ew)	A. Swathi	Assistant Professor
English For Skill Enhancement (Ese)	A.Gateshwar Roy	Assistant Professor
Elements Of Electronics and Communication Engineering (EECE)	D.Vijaya Krishna	Assistant Professor
Applied Physics Laboratory (Ap Lab)	D. Shobhan Babu	Assistant Professor
English Language and Communication Skills Laboratory (ELCS)	Swaroopaa Kumari	Assistant Professor
C Programming for Engineers Laboratory (CPE LAB)	D.NAGARAJU	Assistant Professor
Environmental Science (Es)	P. Venktaswamy	Assistant Professor


Head of the Department
Humanities & Sciences
 Avanthi Institute of Engineering & Technology
 Gunthapally (VIII), Abdullapur Met (Mdl),
 Ranga Reddy District.


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.

MEMORANDUM OF GRADES



Memo. No.: IM 6720374

Serial No.: 11662001290

Examination: I B.Tech. I Semester (R22) Regular

Branch: ELECTRONICS & COMMUNICATION ENGINEERING

Name: JADAV SATHISH



Hall Ticket No.:

22Q61A0428

Month & Year of Exam:

March, 2023

Name of the College:

Q6-AIET, HAYATHNAGAR

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade Point(GI)	Result	Credits (C)
1	181AN	MATRICES AND CALCULUS	F	0	F	0.0
2	181AA	APPLIED PHYSICS	F	0	F	0.0
3	181AF	C PROGRAMMING FOR ENGINEERS	F	0	F	0.0
4	18114	ENGINEERING WORKSHOP	Ab	0	F	0.0
5	181AK	ENGLISH FOR SKILL ENHANCEMENT	B+	7	P	2.0
6	18109	ELEMENTS OF ELECTRONICS AND COMMUNICATION ENGINEERING	O	10	P	1.0
7	18101	APPLIED PHYSICS LABORATORY	Ab	0	F	0.0
8	18104	C PROGRAMMING FOR ENGINEERS LABORATORY	O	10	P	1.0
9	18115	ENGLISH LANGUAGE AND COMMUNICATION SKILLS LABORATORY	B+	7	P	1.0
10	18120	ENVIRONMENTAL SCIENCE	A+	9	P	0.0
SUBJECTS REGISTERED: 10 APPEARED: 8 PASSED: 5 TOTAL:						05.0
Semester Grade Point Average(SGPA) = -						



Date of Issue: May 27, 2023

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 Avanthi Institute of Engg. & Tech
 Gunturpally (V), Abdullapurmet (Mdl), R.R. Dist.

CONTROLLER OF EXAMINATIONS

Instructions:

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	AB	0

P: PASS F: FAIL AB: ABSENT



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.



MEMORANDUM OF GRADES

Memo. No.: **IM 6720648**

Serial No.: 11662001561



Hall Ticket No. :

22Q61A6629

Examination : I B.Tech. I Semester (R22) Regular

Branch : COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

Month & Year of Exam : **March, 2023**

Name : **NALLA THRISHAKAKA REDDY**

Name of the College : **Q6-AIET, HAYATHNAGAR**

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade Point (G)	Result	Credits (C)			
1	181AN	MATRICES AND CALCULUS	F	0	F	0.0			
2	181AA	APPLIED PHYSICS	F		F	0.0			
3	181AP	PROGRAMMING FOR PROBLEM SOLVING	F	0	F	0.0			
4	18114	ENGINEERING WORKSHOP	O	10	P	2.5			
5	181AK	ENGLISH FOR SKILL ENHANCEMENT	A	8	P	2.0			
6	18107	ELEMENTS OF COMPUTER SCIENCE & ENGINEERING	O	10	P	1.0			
7	18101	APPLIED PHYSICS LABORATORY	O	10	P	1.5			
8	18117	PROGRAMMING FOR PROBLEM SOLVING LABORATORY	O	10	P	1.0			
9	18115	ENGLISH LANGUAGE AND COMMUNICATION SKILLS LABORATORY	A+	9	P	1.0			
10	18120	ENVIRONMENTAL SCIENCE	A+	9	P	0.0			
SUBJECTS REGISTERED: 10			APPEARED: 10		PASSED: 7		TOTAL:		09.0
Semester Grade Point Average (SGPA) = -									



Date of Issue : May 27, 2023

Principal
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Controller
CONTROLLER OF EXAMINATIONS

Instructions :

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	AB	0

P: PASS F: F AB: ABSENT

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in ELECTRICAL AND ELECTRONICS ENGINEERING
COURSE STRUCTURE & SYLLABUS (R18)

Applicable From 2018-19 Admitted Batch

I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
		Induction Programme				
		Total Credits	12	2	10	19

I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	AP202BS	Applied Physics	3	1	0	4
3	CS203ES	Programming for Problem Solving	3	1	0	4
4	ME204ES	Engineering Graphics	1	0	4	3
5	AP205BS	Applied Physics Lab	0	0	3	1.5
6	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC209ES	Environmental Science	3	0	0	0
		Total Credits	13	3	10	18

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EE301ES	Engineering Mechanics	3	1	0	4
2	EE302PC	Electrical Circuit Analysis	3	1	0	4
3	EE303PC	Analog Electronics	3	0	0	3
4	EE304PC	Electrical Machines - I	3	1	0	4
5	EE305PC	Electromagnetic Fields	3	0	0	3
6	EE306PC	Electrical Machines Lab - I	0	0	2	1
7	EE307PC	Analog Electronics Lab	0	0	2	1
8	EE308PC	Electrical Circuits Lab	0	0	2	1
9	*MC309	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	3	8	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA401BS	Laplace Transforms, Numerical Methods & Complex variables			0	4

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B.Tech. in COMPUTER SCIENCE AND ENGINEERING
COURSE STRUCTURE & SYLLABUS (R18)

Applicable From 2018-19 Admitted Batch

I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
		Induction Programme				
		Total Credits	12	2	10	19

I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	AP202BS	Applied Physics	3	1	0	4
3	CS203ES	Programming for Problem Solving	3	1	0	4
4	ME204ES	Engineering Graphics	1	0	4	3
5	AP205BS	Applied Physics Lab	0	0	3	1.5
6	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC209ES	Environmental Science	3	0	0	0
		Total Credits	13	3	10	18

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS301ES	Analog and Digital Electronics	3	0	0	3
2	CS302PC	Data Structures	3	1	0	4
3	MA303BS	Computer Oriented Statistical Methods	3	1	0	4
4	CS304PC	Computer Organization and Architecture	3	0	0	3
5	CS305PC	Object Oriented Programming using C++	2	0	0	2
6	CS306ES	Analog and Digital Electronics Lab	0	0	2	1
7	CS307PC	Data Structures Lab	0	0	3	1.5
8	CS308PC	IT Workshop Lab	0	0	3	1.5
9	CS309PC	C++ Programming Lab	0	0	2	1
10	*MC309	Gender Sensitization Lab	0	0	2	0
		Total Credits	14	2	12	21

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech. in COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)
II YEAR COURSE STRUCTURE & SYLLABUS (R18)

Applicable From 2020-21 Admitted Batch

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS310PC	Discrete Mathematics	3	0	0	3
2	CS302PC	Data Structures	3	1	0	4
3	MA313BS	Mathematical and Statistical Foundations	3	0	0	3
4	CS304PC	Computer Organization and Architecture	3	0	0	3
5	CS311PC	Python Programming	2	0	0	2
6	SM306MS	Business Economics & Financial Analysis	3	0	0	3
7	CS307PC	Data Structures Lab	0	0	3	1.5
8	CS312PC	Python Programming Lab	0	0	3	1.5
9	*MC309	Gender Sensitization Lab	0	0	2	0
Total Credits			17	1	8	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS416PC	Formal Language and Automata Theory	3	0	0	3
2	CS417PC	Software Engineering	3	0	0	3
3	CS403PC	Operating Systems	3	0	0	3
4	CS404PC	Database Management Systems	3	1	0	4
5	CS412PC	Object Oriented Programming using Java	3	1	0	4
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
Total Credits			18	2	8	21


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech. in COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

II YEAR COURSE STRUCTURE & SYLLABUS (R18)


Applicable From 2020-21 Admitted Batch

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS310PC	Discrete Mathematics	3	0	0	3
2	CS302PC	Data Structures	3	1	0	4
3	MA313BS	Mathematical and Statistical Foundations	3	0	0	3
4	CS304PC	Computer Organization and Architecture	3	0	0	3
5	CS311PC	Python Programming	2	0	0	2
6	SM306MS	Business Economics & Financial Analysis	3	0	0	3
7	CS307PC	Data Structures Lab	0	0	3	1.5
8	CS312PC	Python Programming Lab	0	0	3	1.5
9	*MC309	Gender Sensitization Lab	0	0	2	0
Total Credits			17	1	8	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS416PC	Formal Language and Automata Theory	3	0	0	3
2	CS417PC	Software Engineering	3	0	0	3
3	CS403PC	Operating Systems	3	0	0	3
4	CS404PC	Database Management Systems	3	1	0	4
5	CS412PC	Object Oriented Programming using Java	3	1	0	4
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
Total Credits			18	2	8	21


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3	EC403PC	Analog and Digital Communications	3	1	0	4
4	EC404PC	Linear IC Applications	3	0	0	3
5	EC405PC	Electronic Circuit Analysis	3	0	0	3
6	EC406PC	Analog and Digital Communications Lab	0	0	3	1.5
7	EC407PC	IC Applications Lab	0	0	3	1.5
8	EC408PC	Electronic Circuit Analysis Lab	0	0	2	1
9	*MC409	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	2	10	21

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC501PC	Microprocessors & Microcontrollers	3	1	0	4
2	EC502PC	Data Communications and Networks	3	1	0	4
3	EC503PC	Control Systems	3	1	0	4
4	SM504MS	Business Economics & Financial Analysis	3	0	0	3
5		Professional Elective - I	3	0	0	3
6	EC505PC	Microprocessors & Microcontrollers Lab	0	0	3	1.5
7	EC506PC	Data Communications and Networks Lab	0	0	3	1.5
8	EN508HS	Advanced Communication Skills Lab	0	0	2	1
9	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	18	3	8	22

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC601PC	Antennas and Propagation	3	1	0	4
2	EC602PC	Digital Signal Processing	3	1	0	4
3	EC603PC	VLSI Design	3	1	0	4
4		Professional Elective - II	3	0	0	3
5		Open Elective - I	3	0	0	3
6	EC604PC	Digital Signal Processing Lab	0	0	3	1.5
7	EC605PC	e – CAD Lab	0	0	3	1.5
8	EC606PC	Scripting Languages Lab	0	0	2	1
9	*MC609	Environmental Science	3	0	0	0
		Total Credits	18	3	8	22

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC701PC	Microwave and Optical Communications	3	0	0	3
2		Professional Elective – III	3	0	0	3
3		Professional Elective – IV	3	0	0	3
4		Open Elective - II	3	0	0	3
5	SM702MS	Professional Practice, Law & Ethics	2	0	0	2
6	EC703PC	Microwave and Optical Communications Lab	0	0	2	1
7	EC704PC	Industrial Oriented Mini Project/ Summer Internship	0	0	0	2*
8	EC705PC	Seminar	0	0	2	1
9	EC706PC	Project Stage - I	0	0	6	3
		Total Credits	14	0	10	21

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2	ME402PC	Kinematics of Machinery	3	1	0	4
3	ME403PC	Thermal Engineering - I	3	1	0	4
4	ME404PC	Fluid Mechanics and Hydraulic Machines	3	1	0	4
5	ME405PC	Instrumentation and Control Systems	3	0	0	3
6	EE409ES	Basic Electrical and Electronics Engineering Lab	0	0	2	1
7	ME407PC	Fluid Mechanics and Hydraulic Machines Lab	0	0	2	1
8	ME408PC	Instrumentation and Control Systems Lab	0	0	2	1
10	*MC409	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	3	8	21

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME501PC	Dynamics of Machinery	3	1	0	4
2	ME502PC	Design of Machine Members-I	3	0	0	3
3	ME503PC	Metrology & Machine Tools	3	0	0	3
4	SM504MS	Business Economics & Financial Analysis	3	0	0	3
5	ME505PC	Thermal Engineering-II	3	0	0	3
6	ME506PC	Operations Research	3	0	0	3
7	ME507PC	Thermal Engineering Lab	0	0	2	1
8	ME508PC	Metrology & Machine Tools Lab	0	0	2	1
9	ME509PC	Kinematics & Dynamics Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	21	1	6	22

III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	ME601PC	Design of Machine Members-II	3	0	0	3
2	ME602PC	Heat Transfer	3	1	0	4
3	ME603PC	CAD & CAM	3	0	0	3
4		Professional Elective - I	3	0	0	3
5		Open Elective - I	3	0	0	3
6	ME604PC	Finite Element Methods	3	0	0	3
7	ME605PC	Heat Transfer Lab	0	0	2	1
8	ME606PC	CAD & CAM Lab	0	0	2	1
9	EN608HS	Advanced Communication Skills lab	0	0	2	1
10	*MC609	Environmental Science	3	0	0	0
		Total Credits	21	1	6	22

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME701PC	Refrigeration & Air Conditioning	3	0	0	3
2		Professional Elective – II	3	0	0	3
3		Professional Elective – III	3	0	0	3
4		Professional Elective - IV	3	0	0	3
5		Open Elective - II	3	0	0	3
6	ME702PC	Industrial Oriented Mini Project/ Summer Internship	0	0	0	2*
7	ME703PC	Seminar	0	0	2	1

***MC309: GENDER SENSITIZATION LAB**

(An Activity-based Course)

B.Tech. II Year I Sem.

L	T	P	C
0	0	2	0

COURSE DESCRIPTION

This course offers an introduction to Gender Studies, an interdisciplinary field that asks critical questions about the meanings of sex and gender in society. The primary goal of this course is to familiarize students with key issues, questions and debates in Gender Studies, both historical and contemporary. It draws on multiple disciplines – such as literature, history, economics, psychology, sociology, philosophy, political science, anthropology and media studies – to examine cultural assumptions about sex, gender, and sexuality.

This course integrates analysis of current events through student presentations, aiming to increase awareness of contemporary and historical experiences of women, and of the multiple ways that sex and gender interact with race, class, caste, nationality and other social identities. This course also seeks to build an understanding and initiate and strengthen programmes combating gender-based violence and discrimination. The course also features several exercises and reflective activities designed to examine the concepts of gender, gender-based violence, sexuality, and rights. It will further explore the impact of gender-based violence on education, health and development.

Objectives of the Course:

- To develop students' sensibility with regard to issues of gender in contemporary India.
- To provide a critical perspective on the socialization of men and women.
- To introduce students to information about some key biological aspects of genders.
- To expose the students to debates on the politics and economics of work.
- To help students reflect critically on gender violence.
- To expose students to more egalitarian interactions between men and women.

Learning Outcomes:

- Students will have developed a better understanding of important issues related to gender in contemporary India.
- Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film.
- Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
- Students will acquire insight into the gendered division of labour and its relation to politics and economics.
- Men and women students and professionals will be better equipped to work and live together as equals.
- Students will develop a sense of appreciation of women in all walks of life.
- Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.

UNIT - I: UNDERSTANDING GENDER

Introduction: Definition of Gender-Basic Gender Concepts and Terminology-Exploring Attitudes towards Gender-Construction of Gender-Socialization: Making Women, Making Men
- Preparing for Womanhood. Growing up Male. First lessons in Caste.

UNIT – II: GENDER ROLES AND RELATIONS

Two or Many? -Struggles with Discrimination-Gender Roles and Relations-Types of Gender Roles-Gender Roles and Relationships Matrix-Missing Women-Sex Selection and Its Consequences-Declining Sex Ratio. Demographic Consequences-Gender Spectrum: Beyond the Binary

UNIT – III: GENDER AND LABOUR

Division and Valuation of Labour-Housework: The Invisible Labor- “My Mother doesn’t Work.” “Share the Load.”-Work: Its Politics and Economics -Fact and Fiction. Unrecognized and Unaccounted work. - Gender Development Issues-Gender, Governance and Sustainable Development-Gender and Human Rights-Gender and Mainstreaming

UNIT – IV: GENDER - BASED VIOLENCE

The Concept of Violence- Types of Gender-based Violence-Gender-based Violence from a Human Rights Perspective-Sexual Harassment: Say No! -Sexual Harassment, not Eve-teasing- Coping with Everyday Harassment- Further Reading: “*Chupulu*”.
Domestic Violence: Speaking Out Is Home a Safe Place? -When Women Unite [Film]. Rebuilding Lives. Thinking about Sexual Violence Blaming the Victim-“I Fought for my Life....”

UNIT – V: GENDER AND CULTURE

Gender and Film-Gender and Electronic Media-Gender and Advertisement-Gender and Popular Literature- Gender Development Issues-Gender Issues-Gender Sensitive Language-Gender and Popular Literature - Just Relationships: Being Together as Equals
Mary Kom and Onler. Love and Acid just do not Mix. Love Letters. Mothers and Fathers. Rosa Parks-The Brave Heart.


Note: Since it is Interdisciplinary Course, Resource Persons can be drawn from the fields of English Literature or Sociology or Political Science or any other qualified faculty who has expertise in this field from engineering departments.

- **Classes will consist of a combination of activities: dialogue-based lectures, discussions, collaborative learning activities, group work and in-class assignments. Apart from the above prescribed book, Teachers can make use of any authentic materials related to the topics given in the syllabus on “Gender”.**

- ☞ **ESSENTIAL READING:** The Textbook, “*Towards a World of Equals: A Bilingual Textbook on Gender*” written by A.Suneetha, Uma Bhugubanda, DuggiralaVasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, Gogu Shyamala, Deepa Sreenivas and Susie Tharu published by Telugu Akademi, Telangana Government in 2015.

ASSESSMENT AND GRADING:

- Discussion & Classroom Participation: 20%
- Project/Assignment: 30%
- End Term Exam: 50%


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AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recg. By Govt. of T.S & Affiliated to JNTUH, Hyderabad)

NAAC "B++" Accredited Institute

Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email: principal.avanthi@gmail.com

GENDER SENSITIZATION LAB

COURSE DESCRIPTION

This course offers an introduction to Gender Studies, an interdisciplinary field that asks critical questions about the meanings of sex and gender in society. The primary goal of this course is to familiarize students with key issues, questions and debates in Gender Studies, both historical and contemporary. It draws on multiple disciplines – such as literature, history, economics, psychology, sociology, philosophy, political science, anthropology and media studies – to examine cultural assumptions about sex, gender, and sexuality.

This course integrates analysis of current events through student presentations, aiming to increase awareness of contemporary and historical experiences of women, and of the multiple ways that sex and gender interact with race, class, caste, nationality and other social identities. This course also seeks to build an understanding and initiate and strengthen programmes combating gender-based violence and discrimination. The course also features several exercises and reflective activities designed to examine the concepts of gender, gender-based violence, sexuality, and rights. It will further explore the impact of gender-based violence on education, health and development.

Objectives of the Course

- To develop students' sensibility with regard to issues of gender in contemporary India.
- To provide a critical perspective on the socialization of men and women.
- To introduce students to information about some key biological aspects of genders.
- To expose the students to debates on the politics and economics of work.
- To help students reflect critically on gender violence.
- To expose students to more egalitarian interactions between men and women.

Learning Outcomes

- Students will have developed a better understanding of important issues related to gender in contemporary India.
- Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film.
- Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
- Students will acquire insight into the gendered division of labor and its relation to politics and economics.
- Men and women students and professionals will be better equipped to work and live together as equals.
- Students will develop a sense of appreciation of women in all walks of life.

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Subject: Gender Sensitization Lab		AY:2022-23		
Department of EEE				
Semester: II-I	Section: EEE			
Prepared by: D. Srilaxmi				
LESSON PLAN				
Content Delivery Methods:				
M1: Lecture interspersed with discussion				
M2: Guest Lecture				
M3: Assignments				
Unit	Number of Periods	Description of the content	Delivery method	Teaching Aid
I	2	Introduction: Definition of Gender-Basic Gender Concepts and Terminology	M1	BB
I	1	Exploring Attitudes towards Gender-: Construction of Gender-Socialization	M1	BB
I	1	Making Women, Making Men Preparing for Womanhood. Growing up Male. First lessons in Caste.	M1	BB
II	1	Two or Many? -Struggles with Discrimination-Gender Roles -	M1	BB
II	1	Relations-Types of Gender Roles AND Gender Roles and Relationships Matrix-Missing	M2	BB
II	1	Women-Sex Selection and Its Consequences	M1	BB
II	2	Declining Sex Ratio. Demographic Consequences. Gender Spectrum: Beyond the Binary	M1	BB
III	1	Division and Valuation of Labour -Housework:	M2	BB
III	1	The Invisible Labor- "My Mother doesn't Work	M3	BB
III	1	Share the Load."-Work: Its Politics and Economics -Fact and Fiction.	M1	BB
III	1	Unrecognized and Unaccounted work. Gender Development Issues Gender	M1	BB
III	1	poaching of wildlife, man-wildlife conflicts; conservation of biodiversity: In- Situ and Ex-situ conservation.	M1	BB
III	1	Governance and Sustainable Development-Gender and Human Rights-Gender and Mainstreaming	M3	BB
IV	2	The Concept of Violence- Types of Gender-based Violence-Gender-based Violence from a Human Rights Harassment-Further Reading	M3	BB

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AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email: principal.avanthi@gmail.com


IV	2	Perspective-Sexual Harassment: Say No! -Sexual Harassment, not Eve teasing- Coping with Everyday	M1	BB
IV	2	Chupulu". Domestic Violence: Speaking OutIs Home a Safe Place? -When Women Unite [Film]. Rebuilding Lives. Thinking about Sexual Violence Blaming the Victim- "I Fought for my Life	M1	BB
V	1	Gender and Film-Gender and Electronic Media- Gender and Advertisement-Gender and Popular Literature	M2	BB
V	2	Gender Development Issues-Gender Issues- Gender Sensitive Language-Gender and Popular Literature	M1	BB
V	1	Just Relationships: Being Together as Equals	M1	BB
V	1	Mary Kom and Onler. Love and Acid just do not Mix.	M1	BB

T. Kulk

Head of the Department

H.O.D

Electrical & Electronics Engineering
Avanathi Institute of Engineering & Technology
Gunthapally (V), Abdullapur Met (Mdl),
Ranga Reddy District.


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A.Y 2022-23 TIME TABLE

II B. Tech EEE I- SEM

W.E. F:28-11-2022

COLLEGE TIMINGS: 09.30AM -03.50PM

DAY	9:30 - 10:20	10:20- 11:10	11:10- 12:00	12:00- 12:50	12:50- 01:20	01:20- 02:10	02:10- 03:00	03:00- 03:50
MON	EM	ECA	EM-I	AE	Lunch Break	EMF	SPORTS	
TUE	ECA	EM	EM-I LAB			EM	EMF	AE
WED	AE	EM-I	ECA	DAA		AE	EM-I	ECA
THU	EC LAB		EMF	EM		COU	EM-I	EMF
FRI	EM-I	ECA	AE LAB			GS LAB		DAA
SAT	EMF	AE	EM	LIB		EM	LIB	AW

Subject Name	Faculty Name	Designation
Engineering Mechanics (EM)	R.V. PRAHALAD	Assistant Professor
Electrical Circuit Analysis (ECA)	Dr.T. KRANTHI UMAR	Associate Professor
Analog Electronics (AE)	G. SRINIVAS	Assistant Professor
Electrical Machines - I (EM-I)	D.NAGESHWAR RAO	Assistant Professor
Electromagnetic Fields (EMF)	E. PRASANNA	Assistant Professor
Electrical Machines Lab - I (EM-I LAB)	D.NAGESHWAR RAO	Assistant Professor
Analog Electronics Lab (AE LAB)	G. SRINIVAS	Assistant Professor
Electrical Circuits Lab (ECLAB)	Dr.T. KRANTHI KUMAR	Associate Professor
Gender Sensitization Lab (GS LAB)	D.SRILAXMI	Assistant Professor

T. K. Reddy
HOD
 Head of the Department
 Electrical & Electronics Engineering
 Avanthi Institute of Engineering & Technology
 Gunthapally (VIII), Abdullapur Met (Md),
 Ranga Reddy District.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.



MEMORANDUM OF GRADES

Memo. No. : **IM 6798816**

Serial No. : 11671001201

Examination : II B.Tech. I Semester (R18) Regular

Branch : ELECTRICAL & ELECTRONICS ENGINEERING

Name : AMGOTH SHIVA



II-Ticket No. :

21Q61A0201

Month & Year of Exam : April, 2023

Name of the College : Q6-AIET, HAYATHNAGAR

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade Point(GI)	Result	Credits (Ci)
1	153AW	ENGINEERING MECHANICS	F	0	F	0.0
2	153AP	ELECTRICAL CIRCUIT ANALYSIS	B	6	P	4.0
3	153AC	ANALOG ELECTRONICS	F	0	F	0.0
4	153AQ	ELECTRICAL MACHINES - I	F	0	F	0.0
5	153AR	ELECTROMAGNETIC FIELDS	F	0	F	0.0
6	15310	ELECTRICAL MACHINES LAB - I	A+	9	P	1.0
7	15302	ANALOG ELECTRONICS LAB	A+	9	P	1.0
8	15309	ELECTRICAL CIRCUITS LAB	A	8	P	1.0
9	15332	GENDER SENSITIZATION LAB	A+	9	P	0.0
SUBJECTS REGISTERED: 9			APPEARED: 9	PASSED: 5	TOTAL:	07.0
Semester Grade Point Average(SGPA) = .						



Principal
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Avanathi Institute of Engg. & Tech
 Gunturpally (V), Abdullapurmet (Mdl), R.R. Dist.

Controller

Date of Issue : June 28, 2023

CONTROLLER OF EXAMINATIONS

Instructions :

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	AB	0



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.



MEMORANDUM OF GRADES

Memo. No. : IM 6798640

Serial No. : 11671001377

Examination : II B.Tech. I Semester (R18) Regular

Branch : COMPUTER SCIENCE & ENGINEERING

Name : KEESARI VIPUL REDDY



Hall-Ticket No. :

21Q61A0573

Month & Year of Exam : April, 2023

Name of the College :

Q6-AIET, HAYATHNAGAR

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade Point(GI)	Result	Credits (Ci)	
1	153AB	ANALOG AND DIGITAL ELECTRONICS	F	0	F	0.0	
2	153AK	DATA STRUCTURES	F	0	F	0.0	
3	153AJ	COMPUTER ORIENTED STATISTICAL METHODS	F	0	F	0.0	
4	153AG	COMPUTER ORGANIZATION AND ARCHITECTURE	F	0	F	0.0	
5	153BK	OBJECT ORIENTED PROGRAMMING USING C++	F	0	F	0.0	
6	15301	ANALOG AND DIGITAL ELECTRONICS LAB	B+	7	P	1.0	
7	15307	DATA STRUCTURES LAB	B+	7	P	1.5	
8	15317	IT WORKSHOP LAB	A	8	P	1.5	
9	15306	C++ PROGRAMMING LAB	B+	7	P	1.0	
10	15332	GENDER SENSITIZATION LAB	O	10	P	0.0	
SUBJECTS REGISTERED: 10			APPEARED: 10		PASSED: 5		TOTAL: 05.0

Semester Grade Point Average(SGPA) = -



Date of Issue : June 28, 2023

Principal
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Controller of Examinations
CONTROLLER OF EXAMINATIONS

Instructions :

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	AB	0



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.



MEMORANDUM OF GRADES

Memo. No. : **IM 6798496**

Serial No. : **11671001521**

Examination : **II B.Tech. I Semester (R18) Regular**

Branch : **COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)**

Name : **BURRA MANIDEEP**



Hall Ticket No. :

21Q61A6647

Month & Year of Exam :

April, 2023

Name of the College :

Q6-AIET, HAYATHNAGAR

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade Point(GI)	Result	Credits (C)
1	153CF	DISCRETE MATHEMATICS	F	0	F	0.0
2	153AK	DATA STRUCTURES	C	5	P	4.0
3	153CH	MATHEMATICAL AND STATISTICAL FOUNDATIONS	F	0	F	0.0
4	153AG	COMPUTER ORGANIZATION AND ARCHITECTURE	F	0	F	0.0
5	153CD	PYTHON PROGRAMMING	F	0	F	0.0
6	153AE	BUSINESS ECONOMICS & FINANCIAL ANALYSIS	F	0	F	0.0
7	15307	DATA STRUCTURES LAB	A+	9	P	1.5
8	15336	PYTHON PROGRAMMING LAB	A+	9	P	1.5
9	15332	GENDER SENSITIZATION LAB	O	10	P	0.0
SUBJECTS REGISTERED: 9			APPEARED: 9	PASSED: 4	TOTAL:	07.0
Semester Grade Point Average(SGPA) = .						



Date of Issue : **June 28, 2023**

CONTROLLER OF EXAMINATIONS

Instructions :

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	AB	0

P: PASS F: FAIL AB: ABSENT



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.

MEMORANDUM OF GRADES



Memo. No.: **IM 6798478**

Serial No.: 11671001539



Hall Ticket No.

21Q61A6702

Examination: II B.Tech. I Semester (R18) Regular

Branch: COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

Month & Year of Exam :

April, 2023

Name: A PRAVEEN KUMAR

Name of the College

Q6-AIET, HAYATHNAGAR

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade Point(G)	Result	Credits (C)		
1	153CF	DISCRETE MATHEMATICS	F	0	F	0.0		
2	153AK	DATA STRUCTURES	F	0	F	0.0		
3	153CH	MATHEMATICAL AND STATISTICAL FOUNDATIONS	F	0	F	0.0		
4	153AG	COMPUTER ORGANIZATION AND ARCHITECTURE	F	0	F	0.0		
5	153CD	PYTHON PROGRAMMING	F	0	F	0.0		
6	153AE	BUSINESS ECONOMICS & FINANCIAL ANALYSIS	F	0	F	0.0		
7	15307	DATA STRUCTURES LAB	A	8	P	1.5		
8	15336	PYTHON PROGRAMMING LAB	A+	9	P	1.5		
9	15332	GENDER SENSITIZATION LAB	O	10	P	0.0		
SUBJECTS REGISTERED: 9			APPEARED: 9		PASSED: 3		TOTAL:	03.0
Semester Grade Point Average(SGPA) = .								

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 Avanthi Institute of Engg & Tech
 Gunthapally (V), Abdullapurmet (Maj), R.R. Dist.



Date of Issue : June 28, 2023

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CONTROLLER OF EXAMINATIONS

Instructions :

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	AB	0

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech. in COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

II YEAR COURSE STRUCTURE & SYLLABUS (R18)

Applicable From 2020-21 Admitted Batch

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS310PC	Discrete Mathematics	3	0	0	3
2	CS302PC	Data Structures	3	1	0	4
3	MA313BS	Mathematical and Statistical Foundations	3	0	0	3
4	CS304PC	Computer Organization and Architecture	3	0	0	3
5	CS311PC	Python Programming	2	0	0	2
6	SM306MS	Business Economics & Financial Analysis	3	0	0	3
7	CS307PC	Data Structures Lab	0	0	3	1.5
8	CS312PC	Python Programming Lab	0	0	3	1.5
9	*MC309	Gender Sensitization Lab	0	0	2	0
		Total Credits	17	1	8	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS416PC	Formal Language and Automata Theory	3	0	0	3
2	CS417PC	Software Engineering	3	0	0	3
3	CS403PC	Operating Systems	3	0	0	3
4	CS404PC	Database Management Systems	3	1	0	4
5	CS412PC	Object Oriented Programming using Java	3	1	0	4
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
		Total Credits	18	2	8	21


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II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS401PC	Discrete Mathematics	3	0	0	3
2	SM402MS	Business Economics & Financial Analysis	3	0	0	3
3	CS403PC	Operating Systems	3	0	0	3
4	CS404PC	Database Management Systems	3	1	0	4
5	CS405PC	Java Programming	3	1	0	4
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
Total Credits			18	2	8	21

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS501PC	Formal Languages & Automata Theory	3	0	0	3
2	CS502PC	Software Engineering	3	0	0	3
3	CS503PC	Computer Networks	3	0	0	3
4	CS504PC	Web Technologies	3	0	0	3
5		Professional Elective-I	3	0	0	3
6		Professional Elective -II	3	0	0	3
7	CS505PC	Software Engineering Lab	0	0	3	1.5
8	CS506PC	Computer Networks & Web Technologies Lab	0	0	3	1.5
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
Total Credits			21	0	8	22

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS601PC	Machine Learning	3	1	0	4
2	CS602PC	Compiler Design	3	1	0	4
3	CS603PC	Design and Analysis of Algorithms	3	1	0	4
4		Professional Elective - III	3	0	0	3
5		Open Elective-I	3	0	0	3
6	CS604PC	Machine Learning Lab	0	0	3	1.5
7	CS605PC	Compiler Design Lab	0	0	3	1.5
8		Professional Elective-III Lab	0	0	2	1
9	*MC609	Environmental Science	3	0	0	0
Total Credits			18	3	8	22

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS701PC	Cryptography & Network Security	3	0	0	3
2	CS702PC	Data Mining	2	0	0	2

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2	EE402PC	Electrical Machines – II	3	1	0	4
3	EE403PC	Digital Electronics	3	0	0	3
4	EE404PC	Control Systems	3	1	0	4
5	EE405PC	Power System - I	3	0	0	3
6	EE406PC	Digital Electronics Lab	0	0	2	1
7	EE407PC	Electrical Machines Lab - II	0	0	2	1
8	EE408PC	Control Systems Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
		Total Credits	18	3	6	21

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EE501PE	Power Electronics	3	1	0	4
2	EE502PE	Power System-II	3	1	0	4
3	EE503PE	Measurements and Instrumentation	3	1	0	4
4		Professional Elective-I	3	0	0	3
5	SM504MS	Business Economics and Financial Analysis	3	0	0	3
6	EE505PC	Power System Simulation Lab	0	0	2	1
7	EE506PC	Power Electronics Lab	0	0	2	1
8	EE507PC	Measurements and Instrumentation Lab	0	0	2	1
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	18	3	8	22

III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1		Open Elective-I	3	0	0	3
2		Professional Elective-II	3	0	0	3
3	EE601PC	Signals and Systems	2	1	0	3
4	EE602PC	Microprocessors & Microcontrollers	3	0	0	3
5	EE603PC	Power System Protection	3	1	0	4
6	EE604PC	Power System Operation and Control	3	0	0	3
7	EE605PC	Power System Lab	0	0	2	1
8	EE606PC	Microprocessors & Microcontrollers Lab	0	0	2	1
9	EE607PC	Signals and Systems Lab	0	0	2	1
10	*MC609	Environmental Science	3	0	0	0
		Total Credits	20	2	6	22

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Open Elective-II	3	0	0	3
2		Professional Elective-III	3	0	0	3
3		Professional Elective-IV	3	0	0	3
4	SM701MS	Fundamentals of Management for Engineers	3	0	0	3
5	EE701PC	Electrical & Electronics Design Lab	1	0	4	3
6	EE702PC	Industrial Oriented Mini Project/ Summer Internship	0	0	4	2*
7	EE703PC	Seminar	0	0	2	1

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in ELECTRONICS AND COMMUNICATION ENGINEERING
COURSE STRUCTURE & SYLLABUS (R18)

Applicable From 2018-19 Admitted Batch

I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	AP102BS	Applied Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	1	0	4
4	ME104ES	Engineering Graphics	1	0	4	3
5	AP105BS	Applied Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC109ES	Environmental Science	3	0	0	0
		Induction Programme				
		Total Credits	13	3	10	18

I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	CH202BS	Chemistry	3	1	0	4
3	EE203ES	Basic Electrical Engineering	3	0	0	3
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	2	0	0	2
6	CH206BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN207HS	English Language and Communication Skills Lab	0	0	2	1
8	EE208ES	Basic Electrical Engineering Lab	0	0	2	1
		Total Credits	12	2	10	19

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC301PC	Electronic Devices and Circuits	3	1	0	4
2	EC302PC	Network Analysis and Transmission Lines	3	0	0	3
3	EC303PC	Digital System Design	3	1	0	4
4	EC304PC	Signals and Systems	3	1	0	4
5	EC305ES	Probability Theory and Stochastic Processes	3	0	0	3
6	EC306PC	Electronic Devices and Circuits Lab	0	0	2	1
7	EC307PC	Digital System Design Lab	0	0	2	1
8	EC308ES	Basic Simulation Lab	0	0	2	1
9	*MC309	Constitution of India	3	0	0	0
		Total Credits	18	3	6	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA401BS	Laplace Transforms, Numerical Methods & Complex Variables	3	1	0	4
2	EC402PC	Electromagnetic Fields and Waves	3	0	0	3

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech. in COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)
II YEAR COURSE STRUCTURE & SYLLABUS (R18)

Applicable From 2020-21 Admitted Batch

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS310PC	Discrete Mathematics	3	0	0	3
2	CS302PC	Data Structures	3	1	0	4
3	MA313BS	Mathematical and Statistical Foundations	3	0	0	3
4	CS304PC	Computer Organization and Architecture	3	0	0	3
5	CS311PC	Python Programming	2	0	0	2
6	SM306MS	Business Economics & Financial Analysis	3	0	0	3
7	CS307PC	Data Structures Lab	0	0	3	1.5
8	CS312PC	Python Programming Lab	0	0	3	1.5
9	*MC309	Gender Sensitization Lab	0	0	2	0
		Total Credits	17	1	8	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS416PC	Formal Language and Automata Theory	3	0	0	3
2	CS417PC	Software Engineering	3	0	0	3
3	CS403PC	Operating Systems	3	0	0	3
4	CS404PC	Database Management Systems	3	1	0	4
5	CS412PC	Object Oriented Programming using Java	3	1	0	4
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
		Total Credits	18	2	8	21


PRINCIPAL
 Avanathi Institute of Engg. & Tech
 Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in MECHANICAL ENGINEERING
COURSE STRUCTURE & SYLLABUS (R18)

Applicable From 2018-19 Admitted Batch

I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	PH102BS	Engineering Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	1	0	4
4	ME104ES	Engineering Graphics	1	0	4	3
5	PH105BS	Engineering Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC109ES	Environmental Science	3	0	0	0
		Induction Programme				
		Total Credits	13	3	10	18

I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	CH202BS	Chemistry	3	1	0	4
3	ME203ES	Engineering Mechanics	3	1	0	4
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	2	0	0	2
6	CH206BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN207HS	English Language and Communication Skills Lab	0	0	2	1
		Total Credits	12	3	8	19.0

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA301BS	Probability and Statistics & Complex Variables	3	1	0	4
2	ME302PC	Mechanics of Solids	3	1	0	4
3	ME303PC	Material Science and Metallurgy	3	0	0	3
4	ME304PC	Production Technology	3	0	0	3
5	ME305PC	Thermodynamics	3	1	0	4
6	ME306PC	Production Technology Lab	0	0	2	1
7	ME307PC	Machine Drawing Practice	0	0	2	1
8	ME308PC	Material Science and Mechanics of Solids Lab	0	0	2	1
9	*MC309	Constitution of India	3	0	0	0
		Total Credits	18	3	6	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EE401ES	Basic Electrical and Electronics Engineering	3	0	0	3

MC409: CONSTITUTION OF INDIA*B.Tech. II Year II Sem.****L T P C**
3 0 0 0

The Constitution of India is the supreme law of India. Parliament of India cannot make any law which violates the Fundamental Rights enumerated under the Part III of the Constitution. The Parliament of India has been empowered to amend the Constitution under Article 368, however, it cannot use this power to change the "basic structure" of the constitution, which has been ruled and explained by the Supreme Court of India in its historical judgments. The Constitution of India reflects the idea of "Constitutionalism" – a modern and progressive concept historically developed by the thinkers of "liberalism" – an ideology which has been recognized as one of the most popular political ideology and result of historical struggles against arbitrary use of sovereign power by state. The historic revolutions in France, England, America and particularly European Renaissance and Reformation movement have resulted into progressive legal reforms in the form of "constitutionalism" in many countries. The Constitution of India was made by borrowing models and principles from many countries including United Kingdom and America.

The Constitution of India is not only a legal document but it also reflects social, political and economic perspectives of the Indian Society. It reflects India's legacy of "diversity". It has been said that Indian constitution reflects ideals of its freedom movement; however, few critics have argued that it does not truly incorporate our own ancient legal heritage and cultural values. No law can be "static" and therefore the Constitution of India has also been amended more than one hundred times. These amendments reflect political, social and economic developments since the year 1950. The Indian judiciary and particularly the Supreme Court of India has played an historic role as the guardian of people. It has been protecting not only basic ideals of the Constitution but also strengthened the same through progressive interpretations of the text of the Constitution. The judicial activism of the Supreme Court of India and its historic contributions has been recognized throughout the world and it gradually made it "as one of the strongest court in the world".

Course content

1. Meaning of the constitution law and constitutionalism
2. Historical perspective of the Constitution of India
3. Salient features and characteristics of the Constitution of India
4. Scheme of the fundamental rights
5. The scheme of the Fundamental Duties and its legal status
6. The Directive Principles of State Policy – Its importance and implementation
7. Federal structure and distribution of legislative and financial powers between the Union and the States
8. Parliamentary Form of Government in India – The constitution powers and status of the President of India
9. Amendment of the Constitutional Powers and Procedure
10. The historical perspectives of the constitutional amendments in India
11. Emergency Provisions: National Emergency, President Rule, Financial Emergency
12. Local Self Government – Constitutional Scheme in India
13. Scheme of the Fundamental Right to Equality
14. Scheme of the Fundamental Right to certain Freedom under Article 19
15. Scope of the Right to Life and Personal Liberty under Article 21


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AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recg. By Govt. of T.S & Affiliated to JNTUH, Hyderabad)

NAAC "B++" Accredited Institute

Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email: principal.avanathi@gmail.com

CONSTITUTION OF INDIA

Course Objectives: Students will be able to:

- Understand the premises informing the twin themes of liberty and freedom from a civil rights perspective.
- To address the growth of Indian opinion regarding modern Indian intellectuals' constitutional role and entitlement to civil and economic rights as well as the emergence of nationhood in the early years of Indian nationalism.
- To address the role of socialism in India after the commencement of the Bolshevik Revolution in 1917 and its impact on the initial drafting of the Indian Constitution.

Course Outcomes: Students will be able to:

- Discuss the growth of the demand for civil rights in India for the bulk of Indians before the arrival of Gandhi in Indian politics.
- Discuss the intellectual origins of the framework of argument that informed the conceptualization of social reforms leading to revolution in India.
- Discuss the circumstances surrounding the foundation of the Congress Socialist Party [CSP] under the leadership of Jawaharlal Nehru and the eventual failure of the proposal of direct elections through adult suffrage in the Indian Constitution
- Discuss the passage of the Hindu Code Bill of 1956.

Learning Outcomes:

- Describe the historical background of the constitution making and its importance for building a democratic India
- Explain the functioning of three wings of the government i.e., executive, legislative and judiciary.
- Explain the value of the fundamental rights and duties for becoming a good citizen of India
- Analyze the decentralization of power between central, state and local self-government1.
- Apply the knowledge in strengthening of the constitutional institutions like CAG, Election Commission and UPSC for sustaining democracy

Suggested Reading:

1. The Constitution of India, 1950 (Bare Act), Government Publication.
2. Dr. S. N. Busi, Dr. B. R. Ambedkar framing of Indian Constitution, 1st Edition, 2015.
3. M. P. Jain, Indian Constitution Law, 7th Edn., Lexis Nexis, 2014.
4. D.D. Basu, Introduction to the Constitution of India, Lexis Nexis, 2015.

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Avanathi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY


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Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email: principal.avanthi@gmail.com

Subject: Constitution of India		AY:2022-23	
Department of CSM			
Semester: II-II	Section: CSM		
Prepared by: B Shailaja			
LESSON PLAN			
Content Delivery Methods:			
M1: Lecture interspersed with discussion			
M2: Guest Lecture			
M3: Assignments			
Number of Periods	Description of the content	Delivery method	Teaching Aid
1	Meaning of the constitution law and constitutionalism	M1	BB
2	Historical perspective of the Constitution of India	M1	BB
1	Salient features and characteristics of the Constitution of India	M1	BB
2	Scheme of the fundamental rights	M3	BB
2	The scheme of the Fundamental Duties and its legal status	M1	BB
1	The Directive Principles of State Policy – Its importance and implementation	M1	BB
3	Federal structure and distribution of legislative and financial powers between the Union and the States	M3	BB
2	Parliamentary Form of Government in India – The constitution powers and status of the President of India	M2	BB
1	Amendment of the Constitutional Powers and Procedure	M2	BB
2	The historical perspectives of the constitutional amendments in India	M1	BB
2	Emergency Provisions: National Emergency, President Rule, Financial Emergency	M3	BB
1	Local Self Government – Constitutional Scheme in India	M1	BB,
1	Scheme of the Fundamental Right to Equality	M2	BB
2	Scheme of the Fundamental Right to certain Freedom under Article 19	M2	BB
2	Scope of the Right to Life and Personal Liberty under Article 21	M1	BB


Head of the Department
Computer Science & Engineering
 Avanthi Institute of Engineering & Technology
 Gunthapally (VIII), Abdullapur Met (Mdl),
 Ranga Reddy District.


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Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email: principal.avanathi@gmail.com

A.Y 2022-23 TIME TABLE

II B. Tech CSM II-SEM

W.E. F: 01-05-2023

COLLEGE TIMINGS: 09:30AM – 03:50PM

DAY	9:30 - 10:20	10:20 - 11:10	11:10 - 12:00	12:00 - 12:50	12:50- 01:20	01:20 - 02:10	02:10 - 03:00	03:00 - 03:50
MON	OS	DBMS LAB			Lunch Break	JAVA	FLAT	SE
TUE	SE	FLAT	DBMS	JAVA		OS	FLAT	COI
WED	DBMS	JAVA LAB				FLAT	SE	OS
THU	COI	JAVA	DBMS	FLAT		SE	OS	SPORTS
FRI	FLAT	OS	JAVA	SE		DBMS	COI	LIB
SAT	JAVA	OS LAB				SE	DBMS	COI

Subject Name	Faculty Name	Designation
Formal Language and Automata Theory (FLAT)	SUBHAN ALI SHAIK	ASSISTANT PROFESSOR
Software Engineering (SE)	Dr SHAIK SHAKEERBASHA	ASSISTANT PROFESSOR
Operating Systems (OS)	Dr SHAHEBAZ AHMED KHAN	ASSISTANT PROFESSOR
Database Management Systems (DBMS)	Dr ABDUL AHAD AFROZ	ASSOC PROFESSOR
Object Oriented Programming using Java	LAVUDYA SHIVASHANKAR	ASSISTANT PROFESSOR
Operating Systems (OS) Lab	Dr SHAHEBAZ AHMED KHAN	ASSISTANT PROFESSOR
Database Management Systems (DBMS) Lab	Dr ABDUL AHAD AFROZ	ASSOC PROFESSOR
Java Programming Lab	LAVUDYA SHIVASHANKAR	ASSISTANT PROFESSOR
Constitution of India (COI)	BOMARABOINA SHAILAJA	ASSISTANT PROFESSOR

HOD
Head of the Department
Computer Science & Engineering
Avanathi Institute of Engineering & Technology
Gunthapally (VIII), Abdullapur Met (Mdl),
Ranga Reddy District.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.



MEMORANDUM OF GRADES

Memo. No. : IM 6798777

Serial No. : 11671001240

Examination : II B.Tech. I Semester (R18) Regular

Branch : ELECTRONICS & COMMUNICATION ENGINEERING

Name : ADE PRASHANTH



Hall Ticket No. : 21Q61A0401

Month & Year of Exam : April, 2023

Name of the College : Q6-AIET, HAYATHNAGAR

21Q61A0401

April, 2023

Q6-AIET, HAYATHNAGAR

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade int(Gi)	Result	Credits (Ci)		
1	153AT	ELECTRONIC DEVICES AND CIRCUITS	B	6	P	4.0		
2	153BH	NETWORK ANALYSIS AND TRANSMISSION LINES	B	6	P	3.0		
3	153AN	DIGITAL SYSTEM DESIGN	F	0	F	0.0		
4	153BT	SIGNALS AND SYSTEMS	B	6	P	4.0		
5	153BQ	PROBABILITY THEORY AND STOCHASTIC PROCESSES	F	0	F	0.0		
6	15311	ELECTRONIC DEVICES AND CIRCUITS LAB	A+	9	P	1.0		
7	15308	DIGITAL SYSTEM DESIGN LAB	O	10	P	1.0		
8	15305	BASIC SIMULATION LAB	O	10	P	1.0		
9	15331	CONSTITUTION OF INDIA	A+	9	P	0.0		
SUBJECTS REGISTERED: 9			APPEARED: 9		PASSED: 7		TOTAL:	14.0

Semester Grade Point Average (SGPA) = .

Principal
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Date of Issue : June 28, 2023

Controller
CONTROLLER OF EXAMINATIONS

Instructions :

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	AB	0



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.



MEMORANDUM OF GRADES

Memo. No.: **IM 6798781**

Serial No.: 11671001236

Examination: II B.Tech. I Semester (R18) Regular

Branch: MECHANICAL ENGINEERING

Name: MD MEHARAJ



Roll Ticket No.:

22Q65A0303

Month & Year of Exam :

April, 2023

Name of the College :

Q6-AIET, HAYATHNAGAR

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade Point(GI)	Result	Credits (Ci)
1	153BP	PROBABILITY AND STATISTICS & COMPLEX VARIABLES	Ab	0	F	0.0
2	153BE	MECHANICS OF SOLIDS	Ab	0	F	0.0
3	153BC	MATERIAL SCIENCE AND METALLURGY	Ab	0	F	0.0
4	153BR	PRODUCTION TECHNOLOGY	Ab	0	F	0.0
5	153BZ	THERMODYNAMICS	Ab	0	F	0.0
6	15326	PRODUCTION TECHNOLOGY LAB	Ab	0	F	0.0
7	15318	MACHINE DRAWING PRACTICE	Ab	0	F	0.0
8	15319	MATERIAL SCIENCE AND MECHANICS OF SOLIDS LAB	Ab	0	F	0.0
9	15331	CONSTITUTION OF INDIA	O	10	P	0.0
SUBJECTS REGISTERED: 9 APPEARED: 1 PASSED: 1 TOTAL:						00.0
Semester Grade Point Average(SGPA) = -						



Date of Issue: June 28, 2023

Principal
PRINCIPAL
 Avanthi Institute of Engg. & Tech
 Guntur (V), Abdullapurmet (Mdl), R.R. Dist.

Controller
CONTROLLER OF EXAMINATIONS

Instructions :

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	AB	0

P: PASS F: FAIL AB: ABSENT

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in ELECTRICAL AND ELECTRONICS ENGINEERING
III YEAR COURSE STRUCTURE AND SYLLABUS (R18)
Applicable From 2018-19 Admitted Batch

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EE501PE	Power Electronics	3	1	0	4
2	EE502PE	Power System-II	3	1	0	4
3	EE503PE	Measurements and Instrumentation	3	1	0	4
4		Professional Elective-I	3	0	0	3
5	SM504MS	Business Economics and Financial Analysis	3	0	0	3
6	EE505PC	Power System Simulation Lab	0	0	2	1
7	EE506PC	Power Electronics Lab	0	0	2	1
8	EE507PC	Measurements and Instrumentation Lab	0	0	2	1
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	18	3	8	22

III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1		Open Elective-I	3	0	0	3
2		Professional Elective-II	3	0	0	3
3	EE601PC	Signals and Systems	2	1	0	3
4	EE602PC	Microprocessors & Microcontrollers	3	0	0	3
5	EE603PC	Power System Protection	3	1	0	4
6	EE604PC	Power System Operation and Control	3	0	0	3
7	EE605PC	Power System Lab	0	0	2	1
8	EE606PC	Microprocessors & Microcontrollers Lab	0	0	2	1
9	EE607PC	Signals and Systems Lab	0	0	2	1
10	*MC609	Environmental Science	3	0	0	0
		Total Credits	20	2	6	22

***MC - Environmental Science – Should be Registered by Lateral Entry Students Only.**

NOTE: Industrial Oriented Mini Project/ Summer Internship is to be carried out during the summer vacation between 6th and 7th semesters. Students should submit report of Industrial Oriented Mini Project/ Summer Internship for evaluation.

Professional Elective - I

EE511PE	Computer Architecture
EE512PE	High Voltage Engineering
EE513PE	Electrical Machine Design

Professional Elective - II

EE611PE	Optimization Techniques
EE612PE	Power Semiconductor Drives
EE613PE	Wind and Solar Energy systems

[Signature]
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2	ME402PC	Kinematics of Machinery	3	1	0	4
3	ME403PC	Thermal Engineering - I	3	1	0	4
4	ME404PC	Fluid Mechanics and Hydraulic Machines	3	1	0	4
5	ME405PC	Instrumentation and Control Systems	3	0	0	3
6	EE409ES	Basic Electrical and Electronics Engineering Lab	0	0	2	1
7	ME407PC	Fluid Mechanics and Hydraulic Machines Lab	0	0	2	1
8	ME408PC	Instrumentation and Control Systems Lab	0	0	2	1
10	*MC409	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	3	8	21

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME501PC	Dynamics of Machinery	3	1	0	4
2	ME502PC	Design of Machine Members-I	3	0	0	3
3	ME503PC	Metrology & Machine Tools	3	0	0	3
4	SM504MS	Business Economics & Financial Analysis	3	0	0	3
5	ME505PC	Thermal Engineering-II	3	0	0	3
6	ME506PC	Operations Research	3	0	0	3
7	ME507PC	Thermal Engineering Lab	0	0	2	1
8	ME508PC	Metrology & Machine Tools Lab	0	0	2	1
9	ME509PC	Kinematics & Dynamics Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	21	1	6	22

III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	ME601PC	Design of Machine Members-II	3	0	0	3
2	ME602PC	Heat Transfer	3	1	0	4
3	ME603PC	CAD & CAM	3	0	0	3
4		Professional Elective - I	3	0	0	3
5		Open Elective - I	3	0	0	3
6	ME604PC	Finite Element Methods	3	0	0	3
7	ME605PC	Heat Transfer Lab	0	0	2	1
8	ME606PC	CAD & CAM Lab	0	0	2	1
9	EN608HS	Advanced Communication Skills lab	0	0	2	1
10	*MC609	Environmental Science	3	0	0	0
		Total Credits	21	1	6	22

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME701PC	Refrigeration & Air Conditioning	3	0	0	3
2		Professional Elective – II	3	0	0	3
3		Professional Elective – III	3	0	0	3
4		Professional Elective - IV	3	0	0	3
5		Open Elective - II	3	0	0	3
6	ME702PC	Industrial Oriented Mini Project/ Summer Internship	0	0	0	2*
7	ME703PC	Seminar	0	0	2	1

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS401PC	Discrete Mathematics	3	0	0	3
2	SM402MS	Business Economics & Financial Analysis	3	0	0	3
3	CS403PC	Operating Systems	3	0	0	3
4	CS404PC	Database Management Systems	3	1	0	4
5	CS405PC	Java Programming	3	1	0	4
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
		Total Credits	18	2	8	21

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS501PC	Formal Languages & Automata Theory	3	0	0	3
2	CS502PC	Software Engineering	3	0	0	3
3	CS503PC	Computer Networks	3	0	0	3
4	CS504PC	Web Technologies	3	0	0	3
5		Professional Elective-I	3	0	0	3
6		Professional Elective -II	3	0	0	3
7	CS505PC	Software Engineering Lab	0	0	3	1.5
8	CS506PC	Computer Networks & Web Technologies Lab	0	0	3	1.5
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	21	0	8	22

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS601PC	Machine Learning	3	1	0	4
2	CS602PC	Compiler Design	3	1	0	4
3	CS603PC	Design and Analysis of Algorithms	3	1	0	4
4		Professional Elective - III	3	0	0	3
5		Open Elective-I	3	0	0	3
6	CS604PC	Machine Learning Lab	0	0	3	1.5
7	CS605PC	Compiler Design Lab	0	0	3	1.5
8		Professional Elective-III Lab	0	0	2	1
9	*MC609	Environmental Science	3	0	0	0
		Total Credits	18	3	8	22

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS701PC	Cryptography & Network Security	3	0	0	3
2	CS702PC	Data Mining	2	0	0	2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech in CSE (DATA SCIENCE)
III & IV YEAR COURSE STRUCTURE & TENTATIVE SYLLABUS (R18)

Applicable From 2020-21 Admitted Batch

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Design and Analysis of Algorithms	3	0	0	3
2		Introduction to Data Science	3	0	0	3
3		Computer Networks	3	0	0	3
4		Data Mining	3	0	0	3
5		Professional Elective - I	3	0	0	3
6		Professional Elective - II	3	0	0	3
7		Data Mining Lab	0	0	3	1.5
8		Computer Networks Lab	0	0	3	1.5
9		Advanced Communication Skills Lab	0	0	2	1
10		Intellectual Property Rights	3	0	0	0
		Total Credits	21	0	8	22

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Compiler Design	3	1	0	4
2		Machine Learning	3	1	0	4
3		Big Data Analytics	3	1	0	4
4		Professional Elective – III	3	0	0	3
5		Open Elective - I	3	0	0	3
6		Machine Learning Lab	0	0	3	1.5
7		Big Data Analytics Lab	0	0	3	1.5
8		Professional Elective - III Lab	0	0	2	1
9		Environmental Science	3	0	0	0
		Total Credits	18	3	8	22

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Predictive Analytics	3	0	0	3
2		Web and Social Media Analytics	2	0	0	2
3		Professional Elective – IV	3	0	0	3
4		Professional Elective – V	3	0	0	3
5		Open Elective – II	3	0	0	3
6		Web and Social Media Analytics Lab	0	0	2	1
7		Industrial Oriented Mini Project/ Summer Internship	0	0	0	2*
8		Seminar	0	0	2	1
9		Project Stage – I	0	0	6	3
		Total Credits	14	0	10	21

[Signature]
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 Avanthi Institute of Engg. & Tech.
 Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech in CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)
III & IV YEAR COURSE STRUCTURE & TENTATIVE SYLLABUS (R18)

Applicable From 2020-21 Admitted Batch

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Design and Analysis of Algorithms	3	0	0	3
2		Machine Learning	3	0	0	3
3		Computer Networks	3	0	0	3
4		Compiler Design	3	0	0	3
5		Professional Elective - I	3	0	0	3
6		Professional Elective - II	3	0	0	3
7		Machine Learning Lab	0	0	3	1.5
8		Computer Networks Lab	0	0	3	1.5
9		Advanced Communication Skills Lab	0	0	2	1
10		Intellectual Property Rights	3	0	0	0
		Total Credits	21	0	8	22

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Artificial Intelligence	3	1	0	4
2		DevOps	3	1	0	4
3		Natural Language Processing	3	1	0	4
4		Professional Elective - III	3	0	0	3
5		Open Elective - I	3	0	0	3
6		Artificial Intelligence and Natural Language Processing Lab	0	0	3	1.5
7		DevOps Lab	0	0	3	1.5
8		Professional Elective - III Lab	0	0	2	1
9		Environmental Science	3	0	0	0
		Total Credits	18	3	8	22

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Neural Networks & Deep Learning	3	0	0	3
2		Reinforcement Learning	2	0	0	2
3		Professional Elective - IV	3	0	0	3
4		Professional Elective - V	3	0	0	3
5		Open Elective - II	3	0	0	3
6		Deep Learning Lab	0	0	2	1
7		Industrial Oriented Mini Project/ Summer Internship	0	0	0	2*
8		Seminar	0	0	2	1
9		Project Stage - I	0	0	6	3
		Total Credits	14	0	10	21

[Signature]
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in ELECTRONICS AND COMMUNICATION ENGINEERING

III YEAR COURSE STRUCTURE AND SYLLABUS (R18)
Applicable From 2018-19 Admitted Batch

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC501PC	Microprocessors & Microcontrollers	3	1	0	4
2	EC502PC	Data Communications and Networks	3	1	0	4
3	EC503PC	Control Systems	3	1	0	4
4	SM504MS	Business Economics & Financial Analysis	3	0	0	3
5		Professional Elective - I	3	0	0	3
6	EC505PC	Microprocessors & Microcontrollers Lab	0	0	3	1.5
7	EC506PC	Data Communications and Networks Lab	0	0	3	1.5
8	EN508HS	Advanced Communication Skills Lab	0	0	2	1
9	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	18	3	8	22

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC601PC	Antennas and Propagation	3	1	0	4
2	EC602PC	Digital Signal Processing	3	1	0	4
3	EC603PC	VLSI Design	3	1	0	4
4		Professional Elective - II	3	0	0	3
5		Open Elective - I	3	0	0	3
6	EC604PC	Digital Signal Processing Lab	0	0	3	1.5
7	EC605PC	e – CAD Lab	0	0	3	1.5
8	EC606PC	Scripting Languages Lab	0	0	2	1
9	*MC609	Environmental Science	3	0	0	0
		Total Credits	18	3	8	22

***MC - Environmental Science – Should be Registered by Lateral Entry Students Only.**


Note: Industrial Oriented Mini Project/ Summer Internship is to be carried out during the summer vacation between 6th and 7th semesters. Students should submit report of Industrial Oriented Mini Project/ Summer Internship for evaluation.

Professional Elective – I

EC511PE	Computer Organization & Operating Systems
EC512PE	Error Correcting Codes
EC513PE	Electronic Measurements and Instrumentation

Professional Elective – II

EC611PE	Object Oriented Programming through Java
EC612PE	Mobile Communications and Networks
EC613PE	Embedded System Design


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***MC510: INTELLECTUAL PROPERTY RIGHTS**

III Year B.Tech. EEE I-Sem

L	T	P	C
3	0	0	0

UNIT – I

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

UNIT – II

Trade Marks: Purpose and function of trademarks, acquisition of trade mark rights, protectable matter, selecting, and evaluating trade mark, trade mark registration processes.

UNIT – III

Law of copy rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law.

Law of patents: Foundation of patent law, patent searching process, ownership rights and transfer

UNIT – IV

Trade Secrets: Trade secrete law, determination of trade secrete status, liability for misappropriations of trade secrets, protection for submission, trade secrete litigation.

Unfair competition: Misappropriation right of publicity, false advertising.


UNIT – V

New development of intellectual property: new developments in trade mark law; copy right law, patent law, intellectual property audits.

International overview on intellectual property, international – trade mark law, copy right law, international patent law, and international development in trade secrets law.

TEXT BOOKS & REFERENCES:

1. Intellectual property right, Deborah. E. Bouchoux, Cengage learning.
2. Intellectual property right – Unleashing the knowledge economy, prabuddha ganguli, Tata McGraw Hill Publishing company ltd.


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AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recg. By Govt. of T.S & Affiliated to JNTUH, Hyderabad)

NAAC "B++" Accredited Institute

Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email: principal.avanthi@gmail.com

INTELLECTUAL PROPERTY RIGHTS

COURSE DESCRIPTION

This course introduces students to the basics of Intellectual Property Rights, Copyright Laws, Trade Marks, and issues related to Patents. The course aims to encourage students for startups and innovations. It covers understanding, defining, and differentiating different types of intellectual properties (IPs) and their roles in contributing to organizational competitiveness. It also includes understanding the Framework of Strategic Management of Intellectual Property (IP), appreciating and appraising different IP management (IPM) approaches, explaining how to derive value from IP and leverage its value in new product and service development, and exposing to the Legal management of IP and understanding of real-life practice of IPM.

Objectives of the Course

The course aims to help students identify different types of Intellectual Properties (IPs), understand the right of ownership, scope of protection, and ways to create and extract value from IP.

It also emphasizes recognizing the crucial role of IP in organizations of different industrial sectors for product and technology development.


The course is designed to provide comprehensive knowledge to students regarding the effect of IPR, especially patents, on emerging issues like public health, climate, Domain Name Disputes and Cybersquatting, Bio piracy, etc., and the ways to tackle these problems.

Learning Outcomes

- Students will be able to apply intellectual property law principles (including copyright, patents, designs and trademarks) to real problems and analyze the social impact of intellectual property law and policy.
- They will also be able to work in teams, solve problems, manage time, and analyze ethical and professional issues which arise in the intellectual property law context.
- Students will be able to apply intellectual property law principles (including copyright, patents, designs and trademarks) to real problems and analyze the social impact of intellectual property law and policy.
- They will also be able to work in teams, solve problems, manage time, and analyze ethical and professional issues which arise in the intellectual property law context

TEXT & REFERENCE BOOKS:

1. Intellectual property right, Deborah. E. Bou choux, Cengage learning.
2. Intellectual property right – Unleashing the knowledge economy, Prabuddha ganguli, Tata McGraw Hill Publishing company Ltd.


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www.aietg.ac.in email: principal.avanthi@gmail.com

Subject: Intellectual Property Rights		AY:2022-23		
Department of EEE				
Semester: III-I	Section: EEE			
Prepared by: M Nageshwar Rao				
LESSON PLAN				
Content Delivery Methods:				
M1: Lecture interspersed with discussion				
M2: Guest Lecture				
M3: Assignments				
Unit	Number of Periods	Description of the content	Delivery method	Teaching Aid
I	2	Introduction Of IPR	M1	BB
I	1	Types Of Intellectual Property	M1	BB
I	1	International Organizations Importance of Intellectual Property Rights.	M1	BB
I	2	Agencies And Treaties Importance of Intellectual Property Rights.	M1	BB
II	1	Purpose And Function of Trademarks	M1	BB
II	1	Acquisition Of Trade Mark Rights	M3	BB
II	1	Protectable Matter, Selecting, And Evaluating Trade Mark	M1	BB
II	1	Trade Mark Registration Processes.	M1	BB
III	1	Fundamental Of Copy Right Law	M2	BB
III	1	Originality Of Material, Rights of Reproduction	M1	BB
III	1	Rights To Perform the Work Publicly	M1	BB
III	1	Copy Right Ownership Issues	M1	BB,
III	1	Copy Right Registration, Notice of Copy Right, International Copy Right Law.	M2	BB
III	1	Foundation Of Patent Law, Patent Searching Process, Ownership Rights and Transfer	M1	BB

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IV	2	Trade Secrete Law, Determination of Trade Secrete Status	M1	BB
IV	2	Liability For Misappropriations of Trade Secrets, Protection for Submission, Trade Secrete Litigation.	M3	BB
IV	2	Unfair Competition: Misappropriation Right of Publicity, False Advertising.	M1	BB
V	1	New Development of Intellectual Property	M1	BB
V	1	New Developments in Trade Mark Law Copy Right Law	M3	BB
V	1	Patent Law, Intellectual Property Audits.	M1	BB
V	1	International Overview on Intellectual Property	M1	BB
V	1	International – Trade Mark Law, Copy Right Law, International Patent Law	M3	BB
V	1	International Development in Trade Secrets Law.	M2	BB

T. R. A.
Head of the Department
H.O.D.
Electrical & Electronics Engineering
Avanthi Institute of Engineering & Technology
Gunthapally (V), Abdullapur Met (M),
R.R. Dist. Kreddy District.

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A.Y 2022-23 TIME TABLE


III B. Tech I- SEM

W.E. F:09-09-2022


COLLEGE TIMINGS: 09.30AM -03.50PM

DAY	9:30 - 10:20	10:20- 11:10	11:10- 12:00	12:00- 12:50	12:50- 01:20	01:20- 02:10	02:10- 03:00	03:00- 03:50
MON	PE	M&I	PS-II	BEFA	Lunch Break	ACS LAB/ PE LAB		IPR
TUE	PS-II	PE	PSS LAB/ M&I LAB			M&I	BEFA	SPORTS
WED	M&I	PS-II	HVE	IPR		IPR	PE	DAA
THU	BEFA	HVE	BEFA	LIB		PSS LAB/ M&I LAB		PE
FRI	HVE	PS-II	ACS LAB/ PE LAB			HVE	M&I	LIB
SAT	IPR	BEFA	PE	HVE		PS-II	M&I	SPORTS

Subject Name	Faculty Name	Designation
Power Electronics (PE)	Dr.S. SRIKANTH REDDY	Assistant Professor
Power System-II (PS-II)	M.SHANKAR	Assistant Professor
Measurements and Instrumentation (M&I)	U. GANESH	Assistant Professor
High Voltage Engineering (HVE)	GUDIPALLY PAVAN KUMAR	Assistant Professor
Business Economics and Financial Analysis (BEFA)	MEDIPALLY SUDHAKAR	Assistant Professor
Power System Simulation Lab (PSS LAB)	M.RAGINI	Assistant Professor
Power Electronics Lab (PE LAB)	Dr.S. SRIKANTH REDDY	Assistant Professor
Measurements and Instrumentation Lab (M&I LAB)	U. GANESH	Assistant Professor
Advanced Communication Skills Lab (ACS LAB)	SWARUPA KUMARI	Assistant Professor
Intellectual Property Rights (IPR)	NAGESHWER RAO MOTHUKURI	Assistant Professor


Head of the Department
 Electrical & Electronics Engineering
 Avanthi Institute of Engineering & Technology
 Gunthapally (VIII), Abdullapur Met (Mdi),
 Ranga Reddy District.


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.



MEMORANDUM OF GRADES

Memo. No. : **IM 6581686**

Serial No. : 11645002685

Examination : III B.Tech. I Semester (R18) Regular

Branch : MECHANICAL ENGINEERING

Name : **ERRA POULU**



Hall Ticket No. :

20Q61A0301

Month & Year of Exam : January, 2023

Name of the College : Q6-AIET, HAYATHNAGAR

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade Point(Gi)	Result	Credits (Ci)			
1	155BA	DYNAMICS OF MACHINERY	B	3	P	4.0			
2	155AX	DESIGN OF MACHINE MEMBERS - I	B	6	P	3.0			
3	155CE	METROLOGY & MACHINE TOOLS	F	0	F	0.0			
4	155AJ	BUSINESS ECONOMICS & FINANCIAL ANALYSIS	F	0	F	0.0			
5	155DG	THERMAL ENGINEERING - II	Ab	0	F	0.0			
6	155CQ	OPERATIONS RESEARCH	B	6	P	3.0			
7	15530	THERMAL ENGINEERING LAB	O	10	P	1.0			
8	15521	METROLOGY & MACHINE TOOLS LAB	O	10	P	1.0			
9	15516	KINEMATICS & DYNAMICS LAB	O	10	P	1.0			
10	15531	INTELLECTUAL PROPERTY RIGHTS	O	10	P	0.0			
11	15533	CYBER SECURITY	O	10	P	0.0			
SUBJECTS REGISTERED: 11			APPEARED: 10		PASSED: 8		TOTAL:		13.0
Semester Grade Point Average(SGPA) = .									

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Date of Issue : April 14, 2023

CONTROLLER OF EXAMINATIONS

Instructions :

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	AB	0

P: PASS F: FAIL AB: ABSENT



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.

MEMORANDUM OF GRADES



Memo. No. : IM 6581751

Serial No. : 11645002620

Examination : III B.Tech. I Semester (R18) Regular

Branch : ELECTRICAL & ELECTRONICS ENGINEERING

Name : B BHANU PRASAD



Hall Ticket No. :

20Q61A0201

Month & Year of Exam : January, 2023

Name of the College : Q6-AIET, HAYATHNAGAR

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade Point (G)	Result	Credits (C)
1	155CU	POWER ELECTRONICS	C	5	P	4.0
2	155CV	POWER SYSTEM - II	B	6	P	4.0
3	155CB	MEASUREMENTS AND INSTRUMENTATION	B	6	P	4.0
4	155BR	HIGH VOLTAGE ENGINEERING	B+	7	P	3.0
5	155AG	BUSINESS ECONOMICS AND FINANCIAL ANALYSIS	B	6	P	3.0
6	15527	POWER SYSTEM SIMULATION LAB	A+	9	P	1.0
7	15526	POWER ELECTRONICS LAB	A+	9	P	1.0
8	15519	MEASUREMENTS AND INSTRUMENTATION LAB	A+	9	P	1.0
9	15501	ADVANCED COMMUNICATION SKILLS LAB	A+	9	P	1.0
10	15531	INTELLECTUAL PROPERTY RIGHTS	A+	9	P	0.0
11	15533	CYBER SECURITY	A+	9	P	0.0

SUBJECTS REGISTERED: 11 APPEARED: 11 PASSED: 11 TOTAL: 22.0

Semester Grade Point Average (SGPA) = 6.5

**** Six Point Five ****



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Kukatpally (V), Abdullapurmet (Mdl), R.R. Dist.

Date of Issue : April 14, 2023

CONTROLLER OF EXAMINATIONS

Instructions :

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	AB	0

P: PASS F: FAIL AB: ABSENT



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD - 500 085, TELANGANA STATE, INDIA.



MEMORANDUM OF GRADES

Memo. No. : IM 6581408

Serial No. : 11645002963

Examination : III B.Tech. I Semester (R18) Regular

Branch : COMPUTER SCIENCE & ENGINEERING

Name : ETIKALA UPENDAR REDDY



Ticket No. :

20Q61A0553

Month & Year of Exam :

January, 2023

Name of the College :

Q6-AIET, HAYATHNAGAR

S.No.	SUBJECT CODE	SUBJECT TITLE	Grade Secured	Grade Point(G)	Result	Credits (Ci)
1	155BK	FORMAL LANGUAGES & AUTOMATA THEORY	F	0	F	0.0
2	155DB	SOFTWARE ENGINEERING	F	0	F	0.0
3	155AN	COMPUTER NETWORKS	F	0	F	0.0
4	155DN	WEB TECHNOLOGIES	F	0	F	0.0
5	155BT	IMAGE PROCESSING	F	0	F	0.0
6	155AY	DISTRIBUTED DATABASES	F	0	F	0.0
7	15529	SOFTWARE ENGINEERING LAB	A+	9	P	1.5
8	15506	COMPUTER NETWORKS & WEB TECHNOLOGIES LAB	A+	9	P	1.5
9	15501	ADVANCED COMMUNICATION SKILLS LAB	O	10	P	1.0
10	15531	INTELLECTUAL PROPERTY RIGHTS	O	10	P	0.0
11	15544	FUNDAMENTALS OF AI	O	10	P	0.0

SUBJECTS REGISTERED: 11 APPEARED: 11 PASSED: 5 TOTAL: 04.0

Semester Grade Point Average(SGPA) = -

(Signature)
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University (V), Abdullapurmet (Md), R.R. Dist.



Date of Issue : April 14, 2023

CONTROLLER OF EXAMINATIONS

Instructions :

Grading System		
% of Marks Secured in a Subject/Course	Letter Grade	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
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Absent	AB	0

P: PASS F: FAIL AB: ABSENT