



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

An Autonomous Institute

Approved by AICTE & Permanently affiliated to JNTU GV

Accredited by NAAC with 'A' Grade and Inclusion u/s 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

NH-16, Anakapalle - 531002, Visakhapatnam, A.P.

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COURSE STRUCTURE FIRST YEAR

B. Tech (Regular-Full time)

(Effective for the students admitted into I year from the
Academic Year 2023-24 onwards)



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Group-A
B.Tech – CSE

I Year I Semester						
S.No.	Course Code	Course Name	L	T	P	Credi
1.	DR23BST01	Linear Algebra & Calculus	3	0	0	3
2.	DR23BST03	Engineering Physics	3	0	0	3
3.	DR23HST01	Communicative English	2	0	0	2
4.	DR23EST01	Basic Civil & Mechanical Engineering	3	0	0	3
5.	DR23EST07	Introduction to Programming	3	0	0	3
6.	DR23HSL01	Communicative English Lab	0	0	2	1
7.	DR23BSL03	Engineering Physics Lab	0	0	2	1
8.	DR23ESL02	Engineering Workshop	0	0	3	1.5
9.	DR23ESL06	IT Workshop	0	0	2	1
10.	DR23ESL07	Computer Programming Lab	0	0	3	1.5
11.	DR23MCL01	Health and Wellness, Yoga and Sports	0	0	1	0.5
Total						20.5

I Year II Semester						
S.No	Course Code	Course Name	L	T	P	Credits
1.	DR23BST02	Differential Equations and Vector calculus	3	0	0	3
2.	DR23BST05	Chemistry	3	0	0	3
3.	DR23EST03	Engineering Graphics	1	0	4	3
4.	DR23EST04	Basic Electrical & Electronics Engineering	3	0	0	3
5.	DR23PCT04	Data Structures	3	0	0	3
6.	DR23BSL05	Chemistry Lab	0	0	2	1
7.	DR23ESL05	Electrical & Electronics Engineering workshop	0	0	3	1.5
8.	DR23PCL04	Data Structures Lab	0	0	3	1.5
9.	DR23MCL02	NSS/NCC/Scouts & Guides/Community Service	0	0	1	0.5



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		Total				19.5
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Group-B
B.Tech – CS(AI&ML) & CSD

I Year I Semester						
S.No.	Course Code	Course Name	L	T	P	Credits
1.	DR23BST01	Linear Algebra & Calculus	3	0	0	3
2.	DR23BST03	Engineering Physics	3	0	0	3
3.	DR23HST01	Communicative English	2	0	0	2
4.	DR23EST01	Basic Civil & Mechanical Engineering	3	0	0	3
5.	DR23EST07	Introduction to Programming	3	0	0	3
6.	DR23HSL01	Communicative English Lab	0	0	2	1
7.	DR23BSL03	Engineering Physics Lab	0	0	2	1
8.	DR23ESL02	Engineering Workshop	0	0	3	1.5
9.	DR23ESL06	IT Workshop	0	0	2	1
10.	DR23ESL07	Computer Programming Lab	0	0	3	1.5
11.	DR23MCL01	Health and Wellness, Yoga and Sports	0	0	1	0.5
		Total				20.5

I Year II Semester						
S.No.	Course Code	Course Name	L	T	P	Credits
1.	DR23BST02	Differential Equations and Vector calculus	3	0	0	3
2.	DR23BST05	Chemistry	3	0	0	3
3.	DR23EST03	Engineering Graphics	1	0	4	3
4.	DR23EST04	Basic Electrical & Electronics Engineering	3	0	0	3



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5.	DR23PCT04	Data Structures	3	0	0	3
6.	DR23BSL05	Chemistry Lab	0	0	2	1
7.	DR23ESL05	Electrical & Electronics Engineering workshop	0	0	3	1.5
8.	DR23PCL04	Data Structures Lab	0	0	3	1.5
9.	DR23MCL02	NSS/NCC/Scouts & Guides/Community Service	0	0	1	0.5
Total						19.5

Group-C B.Tech – CIVIL

I Year I Semester

S.No	Course Code	Course Name	L	T	P	Credits
1.	DR23BST01	Linear Algebra & Calculus	3	0	0	3
2.	DR23BST05	Engineering Chemistry	3	0	0	3
3.	DR23EST07	Introduction to Programming	3	0	0	3
4.	DR23EST03	Engineering Graphics	1	0	4	3
5.	DR23EST04	Basic Electrical & Electronics Engineering	3	0	0	3
6.	DR23BSL04	Engineering Chemistry Lab	0	0	2	1
7.	DR23ESL07	Computer Programming Lab	0	0	3	1.5
8.	DR23ESL05	Electrical & Electronics Engineering Workshop	0	0	3	1.5
9.	DR23MCL022	NSS/NCC/Scouts & Guides/Community Service	0	0	1	0.5
Total						19.5

I Year II Semester

S.No	Course Code	Course Name	L	T	P	Credits
1.	DR23BST02	Differential Equations and Vector Calculus	3	0	0	3
2.	DR23BST03	Engineering Physics	3	0	0	3
3.	DR23HST01	Communicative English	2	0	0	2
4.	DR23EST01	Basic Civil & Mechanical Engineering	3	0	0	3



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5.	DR23PCT01	Engineering Mechanics	3	0	0	3
6.	DR23HSL01	Communicative English Lab	0	0	2	1
7.	DR23BSL03	Engineering Physics Lab	0	0	2	1
8.	DR23ESL06	IT workshop	0	0	2	1
9.	DR23ESL02	Engineering Workshop	0	0	3	1.5
10.	DR23PCL01	Engineering Mechanics & Building Practices Lab	0	0	3	1.5
11.	DR23MCL01	Health and Wellness, Yoga and Sports	0	0	1	0.5
Total						20.5

Group-D
B.Tech – ECE

I Year I Semester

S.No	Course Code	Course Name	L	T	P	Credits
1.	DR23BST01	Linear Algebra & Calculus	3	0	0	3
2.	DR23BST05	Chemistry	3	0	0	3
3.	DR23EST07	Introduction to Programming	3	0	0	3
4.	DR23EST03	Engineering Graphics	1	0	4	3
5.	DR23EST04	Basic Electrical & Electronics Engineering	3	0	0	3
6.	DR23BSL04	Chemistry Lab	0	0	2	1
7.	DR23ESL07	Computer Programming Lab	0	0	3	1.5
8.	DR23ESL05	Electrical & Electronics Engineering Workshop	0	0	3	1.5
9.	DR23MCL022	NSS/NCC/Scouts & Guides/Community Service	0	0	1	0.5
Total						19.5

I Year II Semester

S.No	Course Code	Course Name	L	T	P	Credits
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1.	DR23BST02	Differential Equations and Vector Calculus	3	0	0	3
2.	DR23BST03	Engineering Physics	3	0	0	3
3.	DR23HST01	Communicative English	2	0	0	2
4.	DR23EST01	Basic Civil & Mechanical Engineering	3	0	0	3
5.	DR23EET01	Network Analysis	3	0	0	3
6.	DR23HSL01	Communicative English Lab	0	0	2	1
7.	DR23BSL03	Engineering Physics Lab	0	0	2	1
8.	DR23ESL06	IT workshop	0	0	2	1
9.	DR23ESL02	Engineering Workshop	0	0	3	1.5
10.	DR23EEL01	Network Analysis And Simulation Laboratory	0	0	3	1.5
11.	DR23MCL01	Health and Wellness, Yoga and Sports	0	0	1	0.5
Total						20.5

Group-E
B.Tech – EEE

I Year I Semester						
S.No	Course Code	Course Name	L	T	P	Credits
1.	DR23BS01	Linear Algebra & Calculus	3	0	0	3
2.	DR23BS04	Chemistry	3	0	0	3
3.	DR23ES0	Introduction to Programming	3	0	0	3
4.	DR23ES03	Engineering Graphics	1	0	4	3
5.	DR23ES04	Basic Electrical & Electronics Engineering	3	0	0	3
6.	DR23BS0	Chemistry Lab	0	0	2	1
7.	DR23ES0	Computer Programming Lab	0	0	3	1.5
8.	DR23ES05	Electrical & Electronics Engineering Workshop	0	0	3	1.5
9.	DR23MC0	NSS/NCC/Scouts & Guides/Community Service	0	0	1	0.5
Total						19.5



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I Year II Semester						
S.No	Course Code	Course Name	L	T	P	Credits
1.	DR23BS02	Differential Equations and Vector Calculus	3	0	0	3
2.	DR23BS03	Engineering Physics	3	0	0	3
3.	DR23HS01	Communicative English	2	0	0	2
4.	DR23ES01	Basic Civil & Mechanical Engineering	3	0	0	3
5.	DR23EE02	Electrical Circuit Analysis-I	3	0	0	3
6.	DR23HS01	Communicative English Lab	0	0	2	1
7.	DR23BS03	Engineering Physics Lab	0	0	2	1
8.	DR23ES06	IT workshop	0	0	2	1
9.	DR23ES02	Engineering Workshop	0	0	3	1.5
10.	DR23EE02	Electrical Circuit Lab	0	0	3	1.5
11.	DR23MC0	Health and Wellness, Yoga and Sports	0	0	1	0.5
		Total				20.5



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B. Tech (Regular-Full time)

(Civil Engineering)

(Effective for the students admitted into I year from the Academic
Year **2023-24** onwards)

Civil Engineering
B. Tech.–II Year I Semester

No.	Category	Subject Code	Title	L	T	P	Credits
1	BS	DR2321T011	Numerical and Statistical Methods	3	0	0	3.0
2	HSMC	DR2321THS1	Universal Human Values–Understanding Harmony and Ethical Human Conduct	2	1	0	3.0
3	Engineering Science	DR2321T012	Surveying	3	0	0	3.0
4	Professional Core	DR2321T013	Strength of Materials	3	0	0	3.0
5	Professional Core	DR2321T014	Fluid Mechanics	3	0	0	3.0
6	Professional Core	DR2321L015	Surveying Lab	0	0	3	1.5
7	Professional Core	DR2321L016	Strength of Materials Lab	0	0	3	1.5
8	Skill Enhancement Course	DR2321L017	Soft skills	0	1	2	2.0
9	Audit Course	DR2321M1AC	Environmental Science	2	0	0	-
Total				16	2	8	20.0

B. Tech. II Year II Semester

No.	Category	Subject Code	Title	L	T	P	Credits
1	Management Elective-I	DR2322TMB1	Managerial Economics and Financial Analysis Business Environment Organizational Behavior	2	0	0	2.0
2	Engineering Science	DR2322TES1	Engineering Geology (Layered Learning)	2	0	2	3.0
3	Professional Core	DR2322T011	Building Materials and Concrete Technology	3	0	0	3.0
4	Professional Core	DR2322T012	Structural Analysis	3	0	0	3.0
5	Professional Core	DR2322T013	Hydraulics and Hydraulic Machinery	3	0	0	3.0
6	Professional Core	DR2322L014	Concrete Technology Lab	0	0	2	1.0
7	Professional Core	DR2322L016	Engineering Geology Labss	0	0	4	2.0
8	Skill Enhancement course	DR2322L015	Building Planning and Drawing	0	1	2	2.0
9	Engineering Science	DR2322LC01	Design Thinking and Innovation	1	0	2	2.0
Total				15	1	10	21.0

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

B. Tech (Regular-Full time) - DR23

Electrical and Electronics Engineering

(Effective for the students admitted into II year from the
Academic Year **2024-25** onwards)



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (A) – ANAKAPALLE

Visakhapatnam – Andhra Pradesh, India

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ELECTRICAL AND ELECTRONICS ENGINEERING

DR23 Course Structure

B.Tech. II Year – I Semester

S.No.	Course Code	Title	L	T	P	C
1	DR23BST04	Complex Variables & Numerical Methods	3	0	0	3
2	DR23MCT01	Universal Human Values- Understanding Harmony	2	1	0	3
3	DR23EST05	Electromagnetic Field Theory	3	0	0	3
4	DR23PCT01	Electrical Circuit Analysis-II	3	0	0	3
5	DR23PCT02	DC Machines & Transformers	3	0	0	3
6	DR23PCL01	Electrical Circuit Analysis-II and Simulation Lab	0	0	3	1.5
7	DR23PCL02	DC Machines & Transformers Lab	0	0	3	1.5
8	DR23SEC01	Data Structures	0	1	2	2
9	DR23ACC01	Environmental Science	2	0	0	-
Total Credits			15	2	10	20

B.Tech. II Year – II Semester

S.No.	Category	Title	L	T	P	C
1	DR23MET01	Managerial Economics & Financial Analysis / Business Environment / Organizational Behaviour	2	0	0	2
2	DR23EST06	Analog Circuits	3	0	0	3
3	DR23PCT03	Power Systems-I	3	0	0	3
4	DR23PCT04	Induction and Synchronous Machines	3	0	0	3
5	DR23PCT05	Control Systems	3	0	0	3
6	DR23PCL03	Induction and Synchronous Machines Lab	0	0	3	1.5
7	DR23PCL04	Control Systems Lab	0	0	3	1.5
8	DR23SEC02	Python Programming	0	1	2	2
9	DR23SEC02	Design Thinking & Innovation	1	0	2	2
Total Credits			15	1	10	21
Mandatory Community Service Project of 08 weeks duration during summer vacation						

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B.Tech. - COURSE STRUCTURE – DR23
(Applicable from the Academic Year 2023-24 onwards)

INDUCTION PROGRAMME

S.No.	Course Name	Category	L-T-P-C
1	Physical Activities -- Sports, Yoga and Meditation, Plantation	MC	0-0-6-0
2	Career Counseling	MC	2-0-2-0
3	Orientation to all branches -- career options, tools, etc.	MC	3-0-0-0
4	Orientation on admitted Branch -- corresponding labs, tools and platforms	EC	2-0-3-0
5	Proficiency Modules & Productivity Tools	ES	2-1-2-0
6	Assessment on basic aptitude and mathematical skills	MC	2-0-3-0
7	Remedial Training in Foundation Courses	MC	2-1-2-0
8	Human Values & Professional Ethics	MC	3-0-0-0
9	Communication Skills -- focus on Listening, Speaking, Reading, Writing skills	BS	2-1-2-0
10	Concepts of Programming	ES	2-0-2-0



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B.TECH- ENGINEERING (Proposed)

I Year I Semester						
S.No	Course Code	Course Name	L	T	P	Credits
1.	DR23BST01	Linear Algebra & Calculus	3	0	0	3
2.	DR23BST04	Chemistry /	3	0	0	3
	DR23BST05	Engineering Chemistry	3	0	0	3
3.	DR23EST07	Introduction to Programming	3	0	0	3
4.	DR23EST03	Engineering Graphics	1	0	4	3
5.	DR23EST04	Basic Electrical & Electronics Engineering	3	0	0	3
6.	DR23BSL04	Chemistry Lab/	0	0	2	1
	DR23BSL05	Engineering Chemistry Lab	0	0	2	1
7.	DR23ESL07	Computer Programming Lab	0	0	3	1.5
8.	DR23ESL05	Electrical & Electronics Engineering Workshop	0	0	3	1.5
9.	DR23MCL02	NSS/NCC/Scouts & Guides/Community Service	0	0	1	0.5
		Total				19.5

I Year II Semester						
S.No	Course Code	Course Name	L	T	P	Credits
1.	DR23BST02	Differential Equations and Vector Calculus	3	0	0	3
2.	DR23BST03	Engineering Physics	3	0	0	3
3.	DR23HST01	Communicative English	2	0	0	2
4.	DR23EST01	Basic Civil & Mechanical Engineering	3	0	0	3
5.	DR23PCT01	Engineering Mechanics	3	0	0	3
6.	DR23HSL01	Communicative English Lab	0	0	2	1
7.	DR23BSL03	Engineering Physics Lab	0	0	2	1
8.	DR23ESL06	IT workshop	0	0	2	1
9.	DR23ESL02	Engineering Workshop	0	0	3	1.5
10.	DR23PCL01	Engineering Mechanics & Building Practices Lab	0	0	3	1.5
11.	DR23MCL01	Health and Wellness, Yoga and Sports	0	0	1	0.5
		Total				20.5

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B.Tech.– II Year I Semester

S. No	Category	Title	L	T	P	Credits
1	BS	Random Variables and Stochastic	3	0	0	3
2	HSMC	Universal Human Values– Understanding Harmony and Ethical Human Conduct	2	1	0	3
3	ES	Signals and Systems	3	0	0	3
4	PCC	Electronic Devices and Circuits	3	0	0	3
5	PCC	Digital Circuits Design	3	0	0	3
6	PCC	Electronic Devices and Circuits Lab	0	0	3	1.5
7	PCC	Digital Design & Signal Simulation lab	0	0	3	1.5
8	SEC	PCB Design and prototype Design	0	1	2	2
9	Audit Course	Environmental Science	2	0	0	-
Total			16	02	08	20

B.Tech.– II Year II Semester

S. No	Category	Title	L	T	P	Credits
1	HSMC	Managerial Economics and Financial Analysis	2	0	0	2
2	ES	Linear Control Systems	3	0	0	3
3	PCC	EM Waves and Transmission Lines	3	0	0	3
4	PCC	Analog Circuits Design	3	0	0	3
5	PCC	Analog and Digital Communications	3	0	0	3
6	PCC	Analog Circuits Design Lab	0	0	3	1.5
7	PCC	Analog and Digital Communications	0	0	3	1.5
8	SEC	Soft Skills	0	1	2	2
9	ES	Design Thinking and Innovation	1	0	2	2
Total			15	01	10	21



B.Tech. II Year I Semester

S.No.	Category	Title	L	T	P	Credits
1	BS&H	Mathematical Foundations of Computer Science	3	0	0	3
2	BS&H	Universal Human Values– Understanding Harmony	2	1	0	3
3	Engineering Science	Digital Logic & Computer Organization	3	0	0	3
4	Professional Core	Software Engineering	3	0	0	3
5	Professional Core	Object Oriented Programming Through Java	3	0	0	3
6	Professional Core	CASE Tools Lab	0	0	3	1.5
7	Professional Core	Object Oriented Programming Through Java Lab	0	0	3	1.5
8	Skill Enhancement Course	Python Programming	0	1	2	2
9	Audit Course	Environmental Science	2	0	0	-
Total			16	2	8	20

B.Tech. II Year II Semester

S.No.	Category	Title	L	T	P	Credits
1	Management Course- I	Managerial Economics and Financial Analysis	2	0	0	2
2	Engineering Science/ Basic Science	Probability & Statistics	3	0	0	3
3	Professional Core	Operating Systems	3	0	0	3
4	Professional Core	Database Management Systems	3	0	0	3
5	Professional Core	Formal Languages and Automata Theory	2	1	0	3
6	Professional Core	Operating Systems Lab	0	0	3	1.5
7	Professional Core	Database Management Systems Lab	0	0	3	1.5
8	Skill Enhancement Course	Full Stack Development –I	0	1	2	2
9	BS&H	Design Thinking & Innovation	1	0	2	2
Total			14	2	10	21
Mandatory Community Service Project Internship of 08 weeks duration during summer vacation						



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Department of CSE (AI & ML) COURSE STRUCTURE

B.Tech- II Year- I Semester						
S.No.	Category	Title	L	T	P	Credits
1	DR2321T421	Discrete Mathematics & Graph Theory	2	1	0	3
2	DR2321THS1	Universal Human Values – Understanding Harmony & Ethical Human Conduct	2	1	0	3
3	DR2321T422	Principles of Artificial Intelligence	3	0	0	3
4	DR2321T423	Advanced Data Structures & Algorithms Analysis	3	0	0	3
5	DR2321T054	Object-Oriented Programming Through JAVA	3	0	0	3
6	DR2321L425	Advanced Data Structures and Algorithms Lab	0	0	3	1.5
7	DR2321L056	Object-Oriented Programming Through JAVA Lab	0	0	3	1.5
8	DR2321LC42	Python programming	0	1	2	1.5
9	DR2321M1AC	Environmental Science	2	0	0	-
Total			16	3	8	19.5



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B. Tech– II Year II Semester						
S.No.	Category	Title	L	T	P	Credits
1	DR2322TMB1	Managerial Economics & Financial Analysis	3	0	0	3
2	DR2322TES2	Probability & Statistics	2	0	0	3
3	DR2322T421	Machine Learning	3	0	0	3
4	DR2322TC51	Database Management Systems	3	0	0	3
5	DR2322TC01	Digital Logic and Computer Organization	2	0	0	2
7	DR2322T422	Machine Learning Lab	0	0	3	1.5
8	DR2322LC51	Database Management Systems Lab	0	0	3	1.5
9	DR2322LCS2	Full Stack development -1	0	1	2	1.5
10	DR2322LC01	Design Thinking & Innovation	1	0	2	2
Total			14	1	10	20.5
Mandatory Community Service Project Internship of 08 weeks duration during summer Vacation						



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Department of CSE (DATASCIENCE) COURSE STRUCTURE

B.Tech-II Year- I Semester

S.No	Category	Title	L	T	P	Credits
1	DR2321T421	Discrete Mathematics & Graph Theory	3	0	0	3
2	DR2321THS1	Universal Human Values 2-Understanding Harmony & Ethical Human Conduct	2	1	0	3
3	DR2321T441	Introduction to Data Science	3	0	0	3
4	DR2321T423	Advanced Data Structures & Algorithms Analysis	3	0	0	3
5	DR2321T054	Object-Oriented Programming Through JAVA	3	0	0	3
6	DR2321L444	Data Science Lab	0	0	3	1.5
7	DR2321L056	Object-Oriented Programming Through JAVA Lab	0	0	3	1.5
8	DR2321LC44	Python programming	0	1	2	2
9	DR2321M1AC	Environmental Science	2	0	0	-
Total			15	2	10	20

B.Tech-II Year II Semester

S.No.	Category	Title	L	T	P	Credits
1	DR2322TES2	Probability and Statics	2	0	0	2
2	DR2322TES3	Statistical methods for Data science	3	0	0	3
3	DR2322T441	Data Engineering	3	0	0	3
4	DR2322TC51	DBMS	3	0	0	3
5	DR2322TC01	Digital Logic and Computer Organization	3	0	0	3
7	DR2322L442	Data Engineering Lab	0	0	3	1.5
8	DR2322LC51	DBMS Lab	0	0	3	1.5
9	DR2322LCS3	Exploratory Data Analysis with Python	0	1	2	2
10	DR2322LC01	Design Thinking & Innovation	1	0	2	2
Total			15	1	10	21



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Dr. R. Vaikunta Rao
Principal
Dadi Institute of Engineering & Technology
Autonomous
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