



Dya Jyothi Institute of Technology

(An Autonomous Institution)

Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH) Aziznagar Gate, C.B. Post, Hyderabad-500 075

The following courses refer to the cross-cutting issues like Gender Sensitization, Human Values, Professional Ethics and Responsibility towards Environment.

The offering of the courses includes Basic Sciences, Humanities and Social Sciences, Mandatory courses, and Open Electives.

Issue relevant to	Integrated in the Regulation	Course Name	Course Code	Credits	Offered in
Gender	R18	Gender Sensitization	A23MC2	–	ECE, CSE, IT (II B.Tech. I Semester)
	R18	Gender Sensitization	A24MC1	–	CIVIL, MECH, EEE (II B.Tech. II Semester)
Environment and Sustainability	R15	Environmental Science	A13011	03	CIVIL, MECH, EEE (II B.Tech. I Semester)
	R15	Environmental Science	A14016	02	ECE, CSE, IT (II B.Tech. II Semester)
	R18	Environmental Science	A23MC1	–	CIVIL, MECH, EEE (II B.Tech. I Semester)
	R18	Environmental Science	A24MC2	–	ECE, CSE, IT (II B.Tech. II Semester)
	R15	Environmental Pollution & Control Methods	A16124	03	All Branches of Undergraduate Programmes except Civil & Mechanical Engineering (III B.Tech. II Semester)
	R18	Environmental Pollution & Control Methods	A26126	03	All Branches of Undergraduate Programmes except Civil & Mechanical Engineering (III B.Tech. II Semester)
	R15	Smart City	A15116	03	All Branches of Undergraduate Programmes except Civil & Mechanical Engineering (III B.Tech. I Semester)

	R18	Smart Cities	A25116	03	All Branches of Undergraduate Programmes except Civil & Mechanical Engineering (III B.Tech. I Semester)
	R15	Green Building Technologies	A16125	03	All Branches of Undergraduate Programmes except Civil & Mechanical Engineering (III B.Tech. II Semester)
	R18	Green Building Technologies	A26125	03	All Branches of Undergraduate Programmes except Civil & Mechanical Engineering (III B.Tech. II Semester)
	R15	Disaster Management	A13MC1	–	ECE (II B.Tech. I Semester)
	R15	Disaster Management	A14MC1	–	CSE, EEE (II B.Tech. II Semester)
	R15	Non Conventional Energy Sources	A15218	03	All Branches of Undergraduate Programmes except Electrical & Electronics Engineering and Electronics & Communications Engineering (III B.Tech. I Semester)
	R18	Non Conventional Energy Sources	A25216	03	All Branches of Undergraduate Programmes except Electrical & Electronics Engineering and Electronics & Communications Engineering (III B.Tech. I Semester)
	R15	Energy Management			All Branches of Undergraduate Programmes except Electrical & Electronics

			A15219	03	Engineering and Electronics & Communications Engineering (III B.Tech. I Semester)
	R15	Energy Auditing and Conservation	A16227	03	All Branches of Undergraduate Programmes except Electrical & Electronics Engineering and Electronics & Communications Engineering (III B.Tech. II Semester)
	R18	Energy Auditing and Conservation	A26225	03	All Branches of Undergraduate Programmes except Electrical & Electronics Engineering and Electronics & Communications Engineering (III B.Tech. II Semester)
Human Values and Professional Ethics	R15	Professional Ethics Human Values and Self Development	A14MC4	–	EEE (II B.Tech. I Sem) , IT (II B.Tech. II Sem)
	R13	Human Values and Professional Ethics	A60018	4	All branches of Undergraduate programmes (III B.Tech. II Semester)

COURSE STRUCTURE:

1. R-15 - Course Structure: **Link :** <https://vjit.ac.in/NAAC/criterion1/r15coursestructure.pdf>
2. R-18 - Course Structure: **Link :** <https://vjit.ac.in/NAAC/criterion1/r18coursestructure.pdf>

I) Scheme of instruction (Curriculum component analysis)- UG Programs

After implementing CBCS in the college from the academic year 2015-16 :

- 1. 2018-19** - Passed out batch students credit structure who were admitted during the A.Y. 2015-16, which represents the contribution of credits for the courses that refer to the cross-cutting issues as part of curriculum enrichment.

Semester wise Credit Distribution

a. Civil Engineering

[illegible]**b. Electrical & Electronics Engineering**[illegible]

c. Mechanical Engineering

[illegible]

d. Electronics & Communications Engineering

[illegible]

e. Computer Science & Engineering

[illegible]

f. Information Technology

Component	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII	Total	Percentage
HS	4	4	-		2	5			15	7.81
BS	11	9	6	2	2				30	15.63
ES	10	10	8						28	14.58
PC	-	-	10	22	14	13	11	11	81	42.19
PE	-	-	-		3	3	8		14	7.29
OE	-	-	-		3	3	3		9	4.69
MC	-	-	-	-	-	-	-	-	0	0
Project	-	-	-				2	13	15	7.81
Total	25	23	24	24	24	24	24	24	192	100

2. Component based Scheme of Instruction for the students who have been joined in the college from the A.Y. 2018-19 onwards.

Semester wise Credit Distribution**a. Civil Engineering**

Component	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII	Total	Percentage
HS	3	1	2	-	5	1	-	-	12	7.50
BS	9.5	9.5	3	3	-	-	-	-	25	15.63
ES	5.5	5.5	-	3	1	-	-	-	15	9.37
PC	-	4	15	14	9	14	8	8	72	45.00
PE	-	-	-	-	3	3	6	-	12	7.50
OE	-	-	-	-	3	3	3	-	9	5.63
MC	-	-	0	0	-	-	-	-	0	0
Project	-	-	-	-	-	-	3	12	15	9.37
Total	18	20	20	20	21	21	20	20	160	100.00

b. Electrical & Electronics Engineering

Component	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII	Total	Percentage
HS	3	3	2		3				11	6.88
BS	9.5	9.5	3	3					25	15.63
ES	5.5	7.5		6	3				22	13.75
PC			14	12	8	14	8	6	62	38.75
PE					3	3	6		12	7.50
OE					3	3	3		9	5.63
MC			0	0	1	1			2	1.25
Project							3	14	17	10.63
Total	18	20	19	21	21	21	20	20	160	100.00

c. Mechanical Engineering

Component	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII	Total	Percentage
HS	3	1	2	-	4	-	-	-	10	6.25
BS	9.5	9.5	3	3	-	-	-	-	25	15.62
ES	5.5	9.5	3	3	-	-	-	-	21	13.12
PC	-	-	12	14	10	14	8	10	68	42.50
PE	-	-	-	-	3	3	6	-	12	7.50
OE	-	-	-	-	3	3	3	-	9	5.63
MC	-	-	0	0	1	1	-	-	2	1.25
Project	-	-	-	-	-	-	3	10	13	8.13
Total	18	20	20	20	21	21	20	20	160	100.00

d. Electronics & Communications Engineering

Component	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII	Total	Percentage
HS	1.0	3.0	-	2.0	-	4.0	-	-	10	6.25
BS	9.5	9.5	6.0	-	-	-	-	-	25	15.62
ES	9.5	5.5	3.0	3.0	3.0	-	-	-	24	15
PC	-	-	11.0	15.0	11.0	10.0	8.0	6.0	61	38.12
PE	-	-	-	-	3.0	3.0	6.0	-	12	7.5
OE	-	-	-	-	3.0	3.0	3.0	-	9	5.63
MC	-	-	-	-	1.0	1.0	-	-	2	1.25
Project	-	-	-	-	-	-	3.0	14.0	17	10.63
Total	20	18	20	20	21	21	20	20	160	100.00

e. Computer Science & Engineering

Component	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII	Total	Percentage
HS	1	3	-	2	5	-	-	-	11	6.87
BS	9.5	9.5	3	-	-	1	-	-	23	14.37
ES	9.5	5.5	7	-	-	-	-	-	22	13.75
PC	-	-	10	18	10	14	7	6	65	40.62
PE	-	-	-	-	3	3	7	-	13	8.13
OE	-	-	-	-	3	3	3	-	9	5.63
MC	-	-	-	-	-	-	-	-	-	-
Project	-	-	-	-	-	-	3	14	17	10.63
Total	20	18	20	20	21	21	20	20	160	100.00

f. Information Technology

Component	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII	Total	Percentage
HS	1	3	-	2	5	-	-	-	11	6.87
BS	9.5	9.5	3	-	-	1	-	-	23	14.37
ES	9.5	5.5	7	-	-	-	-	-	22	13.75
PC	-	-	10	18	10	14	7	6	65	40.62
PE	-	-	-	-	3	3	7	-	13	8.13
OE	-	-	-	-	3	3	3	-	9	5.63
MC	-	-	-	-	-	-	-	-	-	-
Project	-	-	-	-	-	-	3	14	17	10.63
Total	20	18	20	20	21	21	20	20	160	100.00

II) Scheme of Instruction (Curriculum component analysis)- PG Programs

1. For the students who have joined in the college during the A.Y 2015-16, 2016-17, 2017-18 or 2018-19.

Semester wise Credit Distribution

a. M.Tech.-Structural Engineering

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	14	14	4	-	32	36.36
PE	8	8	-	-	16	18.19
OE	4	4	-	-	8	9.09
Project	2	2	12	16	32	36.36
Total	28	28	16	16	88	100.00

b. M.Tech.- Electrical Power Systems

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	16	16	4	-	36	40.91
PE	8	8	-	-	16	18.18
OE	4	4	-	-	8	9.09
Project	-	-	12	16	28	31.82
Total	28	28	16	16	88	100

c. M.Tech.-CAD/CAM

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	16	16	4	-	36	40.90
PE	8	8	-	-	16	18.18
OE	4	4	-	-	8	9.09
Project	-	-	12	16	28	31.81
Total	28	28	16	16	88	100.00

d. M.Tech.-Embedded Systems

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	16	16	4	-	36	40.9
PE	8	8	-	-	16	18.18
OE	4	4	-	-	8	9.09
Project	-	-	12	16	28	31.82
Total	28	28	16	16	88	100

e. M.Tech.- VLSID

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	16	16	4	-	36	40.9
PE	8	8	-	-	16	18.18
OE	4	4	-	-	8	9.09
Project	-	-	12	16	28	31.82
Total	28	28	16	16	88	100

f. M.Tech.- Computer Science Engineering

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	16	16	4	-	36	40.9
PE	8	8	-	-	16	18.18
OE	4	4	-	-	8	9.09
Project	-	-	12	16	28	31.82
Total	28	28	16	16	88	100

g. Master of Business Administration

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	15	15	9	6	45	51.13
PE	-	-	9	9	18	20.45
OE	3	3	-	-	6	6.82
Laboratory, Seminar	4	4	4	2	14	15.9
Comprehensive Viva	-	-	-	2	2	2.27
Project	-	-	-	3	3	3.4
Total	22	22	22	22	88	100

2. For the students who have been joined in the college from the A.Y 2019-20 onwards.

Semester wise Credit Distribution

a. M.Tech.-Structural Engineering

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	14	14	6	-	34	39.54
PE	6	6	-	-	12	13.95
OE	3	3	-	-	6	6.97
Project	2	-	8	24	34	39.54
Total	25	25	14	24	86	100.00

b. M.Tech.- Electrical Power Systems

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	16	16	4	-	36	40.91
PE	6	6	-	-	12	13.64
OE	3	3	-	-	6	6.82
Project	-	-	10	24	34	38.64
Total	25	25	14	24	88	100

c. M.Tech.-CAD/CAM

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	16	16	6	-	38	41.75
PE	6	6	-	-	12	13.18
OE	3	3	-	-	9	9.89
Project	-	-	8	24	32	35.16
Total	25	25	14	24	91	100.00

d. M.Tech.-Embedded Systems

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	16	16	4	-	36	40.9
PE	6	6	-	-	12	13.63
OE	3	3	-	-	6	6.81
Project	-	-	10	24	32	36.36
Total	25	25	14	24	88	100

e. M.Tech.-VLSID

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	16	16	4	-	36	40.9
PE	6	6	-	-	12	13.63
OE	3	3	-	-	6	6.81
Project	-	-	10	24	32	36.36
Total	25	25	14	24	88	100

f. M.Tech.- Computer Science Engineering

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	16	16	4	-	36	40.9
PE	6	6	-	-	12	13.63
OE	3	3	-	-	6	6.81
Project	-	-	10	24	32	36.36
Total	25	25	14	24	88	100

g. Master of Business Administration

Component	Sem I	Sem II	Sem III	Sem IV	Total	Percentage
PC	24	24	8	8	64	62.74
PE	-	-	9	9	18	17.64
OE	-	-	4	4	8	7.84
Laboratory, Seminar, internship (field work)	3	3	2	-	8	7.84
Comprehensive Viva	-	-	-	1	1	0.98
Project	-	-	-	3	3	2.94
Total	27	27	23	25	102	100