



Vishnu Waman Thakur Charitable Trust's

VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

2.6.2

PO & CO attainment for AY 2017-18





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

INDEX

Sr. No.	Contents	Pg. No
1	PO attainment of Humanities and Applied Sciences	3
2	PO attainment of Civil Engineering	5
3	PO attainment of Computer Engineering	10
4	PO attainment of Electrical Engineering	14
5	PO attainment of Electronics and Telecommunication Engineering	19
6	PO attainment of Mechanical Engineering	25
7	PO attainment of M.E. Manufacturing Systems Engineering	31
8	CO attainment of Humanities and Applied Sciences	32
9	CO attainment of Civil Engineering	35
10	CO attainment of Computer Engineering	49
11	CO attainment of Electrical Engineering	57
12	CO attainment of Electronics and Telecommunication Engineering	66
13	CO attainment of Mechanical Engineering	77
14	CO attainment of M.E. Manufacturing Systems Engineering	95





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

PO Attainment

Humanities and Applied Sciences

Course Code	Subject	Div.	Faculty Name		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
Semester I																
FEC101	Applied Mathematics I	-	Shiksha Singh	Target Level	2.00	3.00	2.00	-	-	2.00	-	2.00	-	-	-	-
				Attainment Level	0.43	0.46	0.55	-	-	0.50	-	0.46	-	-	-	-
FEC102	Applied Physics-I	-	Dr.Ajazul Haque/ Deepak Dubey	Target Level	-	3.00	2.66	2.50	-	-	-	-	-	-	-	-
				Attainment Level	-	1.54	1.65	1.64	-	-	-	-	-	-	-	-
FEC103	Applied Chemistry-I	-	Manju Mishra	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-
				Attainment Level	2.31	2.31	2.32	2.31	2.31	-	-	-	-	-	-	-
FEC104	Engineering Mechanics	-	Sushil Mishra	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-
FEC105	Basic Electrical Engineering	-	Pratik Parsewar	Target Level	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	-
				Attainment Level	2.20	1.70	2.20	-	2.10	-	-	-	-	-	-	-
FEC106	Environmental studies	-	Reshma Chaudhari	Target Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-
				Attainment Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-
FEL101	Basic workshop practice-I	-	Sachin Patil	Target Level	2.00	-	-	-	2.00	2.00	-	-	-	-	-	-
				Attainment Level	0.59	-	-	-	0.59	0.59	-	-	-	-	-	-
Semester II																
FEC201	Applied Maths-II	-	Shiksha Singh	Target Level	3.00	3.00	2.75	2.66	-	-	-	-	-	-	-	-
				Attainment Level	0.54	0.56	0.54	0.56	-	-	-	-	-	-	-	-
FEC202	Applied Physics-II	-	Dr.Ajazul Haque/ Deepak Dubey	Target Level	-	3.00	2.66	2.50	-	-	-	-	-	-	-	-
				Attainment Level	-	2.43	2.63	2.69	-	-	-	-	-	-	-	-
FEC203	Applied Chemistry-II	-	Manju Mishra	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-
				Attainment Level	3.00	3.00	3.00	2.83	2.58	-	-	-	-	-	-	-
FEC204	Engineering Drawing	-	Sushil Mishra	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Attainment Level	3.00	3.00	-	-	-	-	-	-	-	-	-	
FEC205	Structural Programming Approach	-	Reshma Chaudhari	Target Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	
				Attainment Level	1.56	1.40	1.60	1.56	1.40	1.40	-	-	-	-	-	
FEC206	Communicational skill	-	Dr. Prashant Pawar/ Dr. Trupti Patil	Target Level	-	-	2.50	-	2.50	2.50	-	-	2.50	2.50	2.50	-
				Attainment Level	-	-	1.97	-	1.98	1.95	-	-	1.97	1.96	1.96	-
FEL201	Basic workshop practice-II	-	Sachin Patil	Target Level	2.00	-	-	-	2.00	2.00	-	-	-	-	-	-
				Attainment Level	0.58	-	-	-	0.58	0.58	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Civil Engineering

Course Code	Subject	Div.	Faculty Name		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
Semester III																
CEC301	Applied Mathematics III	A	Jayesh jain	Target Level	-	-	3.00	2.00	1.00	-	-	-	-	-	-	3.00
				Attainment Level	-	-	2.66	2.66	2.66	-	-	-	-	-	-	-
CEC302	Surveying – I	A	Abhijit Wasave	Target Level	2.00	-	-	-	-	-	-	-	-	-	-	2.00
				Attainment Level	1.56	-	-	-	-	-	-	-	-	-	-	-
CEC303	Strength Of Materials	A	Akshay Mistry	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	3.00	-	-	-	-
				Attainment Level	1.40	1.40	1.40	1.40	1.40	-	-	1.40	-	-	-	-
CEC304	Engineering Geology	A	Prachi Bari	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.90	2.86	2.60	-	-	-	-	-	-	-	-	-
CEC305	Fluid Mechanics – I	A	Mayur Patel	Target Level	3.00	2.00	1.00	-	-	-	-	-	-	-	-	2.00
				Attainment Level	2.66	2.66	2.66	-	-	-	-	-	-	-	-	-
CEC301	Applied Mathematics III	B	Prachi Bari	Target Level	2.25	2.50	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	1.34	1.30	1.38	1.30	-	-	-	-	-	-	-	-
CEC302	Surveying – I	B	Prachi Bari	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	3.00	-	-
				Attainment Level	2.90	1.00	2.00	-	-	-	-	-	-	-	-	2.90
CEC303	Strength Of Materials	B	Prerana patil	Target Level	2.00	-	-	-	2.00	-	-	-	-	2.00	-	-
				Attainment Level	1.23	-	-	-	1.23	-	-	-	-	-	1.24	-
CEC304	Engineering Geology	B	Ramya Raju	Target Level	2.00	-	-	-	2.00	-	-	-	-	-	-	-
				Attainment Level	0.08	-	-	-	0.08	-	-	-	-	-	-	-
CEC305	Fluid Mechanics – I	B	Akshay Naik	Target Level	3.00	2.00	1.00	-	-	-	-	-	-	-	-	3.00
				Attainment Level	2.66	2.66	2.66	-	-	-	-	-	-	-	-	-
Semester IV																
CEC401	Applied Mathematics – IV	A	Jayesh jain	Target Level	2.00	-	-	-	-	-	-	-	-	-	-	2.00
				Attainment Level	1.56	-	-	-	-	-	-	-	-	-	-	-
CEC402	Surveying – II	A	Meena Bhagat	Target Level	3.00	2.00	2.33	3.00	-	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Attainment Level	1.62	1.62	1.62	1.60	-	-	-	-	-	-	-	-
CEC403	Structural Analysis – I	A	Abhijit Wasave	Target Level	-	3.00	2.66	2.50	-	-	-	-	-	-	-	-
				Attainment Level	1.64	1.71	1.68	-	-	-	-	-	-	-	-	-
CEC404	Building Design And Drawing –	A	Jimit Chotai	Target Level	3.00	-	-	-	-	-	-	-	-	-	-	2.00
				Attainment Level	1.17	-	-	-	-	-	-	-	-	-	-	1.17
CEC405	Building Materials & Construction Technology	A	Vishal Urade	Target Level	-	2.50	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	-	1.29	1.15	1.29	-	-	-	-	-	-	-	-
CEC406	Fluid Mechanics – II	A	Ramya Raju	Target Level	3.00	-	-	-	-	-	-	-	-	-	3.00	-
				Attainment Level	2.74	-	-	-	-	-	-	-	-	-	2.74	-
CEC401	Applied Mathematics – IV	B	Jayesh jain	Target Level	2.00	-	-	-	2.00	-	-	-	-	-	2.00	-
				Attainment Level	2.87	-	-	-	2.87	-	-	-	-	-	2.88	-
CEC402	Surveying – II	B	Prachi Bari	Target Level	2.00	-	-	-	2.00	-	-	-	-	-	-	-
				Attainment Level	0.08	-	-	-	0.08	-	-	-	-	-	-	-
CEC403	Structural Analysis – I	B	Pratibah Patil	Target Level	3.00	2.00	-	-	-	-	-	-	-	-	-	3.00
				Attainment Level	2.60	2.60	-	-	-	-	-	-	-	-	-	2.60
CEC404	Building Design And Drawing –	B	Jimit chotai	Target Level	3.00	2.00	1.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.73	2.73	2.73	-	-	-	-	-	-	-	-	-
CEC405	Building Materials & Construction Technology	B	Ghufran Khan	Target Level	-	2.00	3.00	2.00	-	-	-	-	-	-	3.00	-
				Attainment Level	-	2.00	2.93	2.93	-	-	-	-	-	-	2.93	-
CEC406	Fluid Mechanics – II	B	Meena Bhagat	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	2.75	2.64	-	-	-	-	-	-	-	-	-	-
Semester V																
CEC501	Structural Analysis – II	A	Pratibha patil	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	2.74	2.74	-	-	-	-	-	-	-	-	-	-
CEC502	Geotechnical Engineering – I	A	Prashant Gondane	Target Level	3.00	-	-	-	2.00	-	-	-	-	-	-	-
				Attainment Level	1.74	-	-	-	1.68	-	-	-	-	-	-	-
CEC503	Applied Hydraulics I	A	Asmita Bhalke	Target Level	-	2.00	2.00	-	2.00	2.00	2.00	-	2.00	-	-	2.00
				Attainment Level	-	2.00	2.00	-	2.00	2.00	2.00	-	2.00	-	-	2.00
CEC504		A	Jimit Chotai	Target Level	2.00	-	-	-	2.00	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

	Building Design And Drawing			Attainment Level	2.49	-	-	-	2.49	-	-	-	-	-	-	-
CEC505	Transportation Engineering – I	A	Ghufran Khan	Target Level	3.00	2.00	-	-	-	-	-	-	-	3.00	-	-
				Attainment Level	2.93	2.93	-	-	-	-	-	-	-	-	2.93	-
CEC501	Structural Analysis – Ii	B	Abhijit Wasave	Target Level	3.00	-	-	-	2.00	-	-	-	-	-	-	-
				Attainment Level	2.54	-	-	-	2.48	-	-	-	-	-	-	-
CEC502	Geotechnical Engineering – I	B	Ashish Shetty	Target Level	-	2.00	2.00	-	2.00	2.00	2.00	-	2.00	-	-	2.00
				Attainment Level	-	2.00	2.00	-	2.00	2.00	2.00	-	2.00	-	2.00	-
CEC503	Applied Hydraulics I	B	Ashish shetty	Target Level	2.00	-	-	-	2.00	-	-	-	-	-	-	-
				Attainment Level	2.49	-	-	-	2.49	-	-	-	-	-	-	-
CEC504	Building Design And Drawing	B	Yadnesh Patil	Target Level	3.00	3.00	-	-	-	-	3.00	-	-	-	-	-
				Attainment Level	2.83	2.90	-	-	-	-	2.98	-	-	-	-	-
CEC505	Transportation Engineering – I	B	Vishal Urade	Target Level	2.00	1.50	3.00	-	-	-	-	-	-	2.00	-	1.00
				Attainment Level	2.13	1.58	2.90	-	-	-	-	-	-	-	2.35	-
Semester VI																
CEC601	Design And Drawing Of Steel Structures	A	Prerana Patil	Target Level	3.00	3.00	-	-	-	-	3.00	-	-	-	-	-
				Attainment Level	1.77	1.72	-	-	-	-	1.67	-	-	-	-	-
CEC602	Theory Of Reinforced Concrete Structures	A	Akshay Mistry	Target Level	2.00	1.50	3.00	-	-	-	-	-	-	2.00	-	1.00
				Attainment Level	2.75	2.86	2.86	-	-	-	-	-	-	-	2.94	-
CEC603	Geotechnical Engineering. – II	A	Ashish shetty	Target Level	3.00	3.00	1.50	-	-	-	-	-	-	-	-	-
				Attainment Level	1.37	1.36	1.33	-	-	-	-	-	-	-	-	-
CEC604	Environmental Engineering. – I	A	Monica More	Target Level	2.00	1.50	-	2.00	2.60	-	-	-	-	2.00	-	1.00
				Attainment Level	2.95	2.96	-	2.96	2.94	-	-	-	-	-	2.94	-
CEC605	Transportation Engg II	A	Vishal urade	Target Level	3.00	-	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.88	-	2.88	-	-	-	-	-	-	-	-	-
CEC606	Applied Hydraulics II	A	Asmita mhatre	Target Level	3.00	2.75	1.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.64	2.60	2.47	-	-	-	-	-	-	-	-	-
CEC601	Design And Drawing Of Steel Structures	B	Prerana patil	Target Level	3.00	2.00	-	2.20	3.00	-	-	-	-	-	-	-
				Attainment Level	2.96	2.97	-	2.96	2.96	-	-	-	-	-	-	-
CEC602		B	Abhijit Wasave	Target Level	3.00	2.00	3.00	-	-	-	-	-	-	-	-	





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

	Theory Of Reinforced Concrete Structures			Attainment Level	2.87	2.88	2.87	-	-	-	-	-	-	-	-	-
CEC603	Geotechnical Engineering. – II	B	Arathy Menon	Target Level	3.00	2.70	2.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.72	2.72	2.47	-	-	-	-	-	-	-	-	-
CEC604	Environmental Engineering. – I	B	Purva Awari	Target Level	3.00	3.00	-	-	3.00	-	-	-	-	-	-	-
				Attainment Level	2.61	2.61	-	-	2.97	-	-	-	-	-	-	-
CEC605	Transportation Engg II	B	Vishal urade	Target Level	3.00	3.00	-	-	3.00	-	-	-	-	-	-	-
				Attainment Level	2.61	2.61	-	-	2.97	-	-	-	-	-	-	-
CEC606	Applied Hydraulics II	A	Asmita mhatre	Target Level	3.00	3.00	-	-	3.00	-	-	-	-	-	-	-
				Attainment Level	2.61	2.61	-	-	2.97	-	-	-	-	-	-	-
Semester VII																
CEC701	Quantity Survey Estimation And Valuation	A	Arathy Menon	Target Level	3.00	3.00	-	-	3.00	-	-	-	-	-	-	-
				Attainment Level	2.61	2.61	-	-	2.97	-	-	-	-	-	-	-
CEC702	Limit State Method Of Rc Structures	A	Sagar Sundaran	Target Level	3.00	3.00	-	-	3.00	-	-	-	-	-	-	-
				Attainment Level	2.61	2.61	-	-	2.97	-	-	-	-	-	-	-
CEC703	Irrigation Engineering	A	Asmita Bhalke	Target Level	3.00	3.00	-	-	3.00	-	-	-	-	-	-	-
				Attainment Level	2.61	2.61	-	-	2.97	-	-	-	-	-	-	-
CEC704	Environmental Engg II	A	Monica More	Target Level	3.00	3.00	-	-	3.00	-	-	-	-	-	-	-
				Attainment Level	2.61	2.61	-	-	2.97	-	-	-	-	-	-	-
ILO7017	Solid Waste Management Measures	A	Purva Awari	Target Level	3.00	3.00	-	-	3.00	-	-	-	-	-	-	-
				Attainment Level	2.61	2.61	-	-	2.97	-	-	-	-	-	-	-
CEC701	Quantity Survey Estimation And Valuation	B	Ramya Raju	Target Level	3.00	3.00	2.00	-	-	-	2.00	-	-	-	-	-
				Attainment Level	2.88	2.99	2.85	-	-	-	2.82	-	-	-	-	-
CEC702	Limit State Method Of Rc Structures	B	Prerana Patil	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	1.67	1.67	1.67	1.67	-	-	-	-	-	-	-	-
CEC703	Irrigation Engineering	B	Lissy Jose	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.98	2.98	2.98	-	-	-	-	-	-	-	-	-
CEC704	Environmental Engg II	B	Purva Awari	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.98	2.98	2.98	-	-	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

ILO7017	Solid Waste Management Measures	B	Prashant Gondane	Target Level	-	-	3.00	3.00	3.00	3.00	-	-	-	-	-	-
				Attainment Level	-	-	2.98	2.98	2.98	2.98	-	-	-	-	-	-
CEP705	Project – Part I	A & B	Prerana Patil	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	2.98	2.98	2.98	2.98	-	-	-	-	-	-	-	-
Semester VIII																
CEC801	Design And Drawing Of Reinforced Concrete Structures	A	Sagar Sundaran	Target Level	-	3.00	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	-	2.98	2.98	2.98	-	-	-	-	-	-	-	-
CEC802	Construction Management	A	Lissy Jose	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	2.98	2.98	2.98	2.98	-	-	-	-	-	-	-	-
CEC803	Industrial Waste Treatment	A	Akshay naik	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.00	2.00	2.00	-	-	-	-	-	-	-	-	-
CEDLO80 32	Construction Engg	A	Prashant gondane	Target Level	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	-
				Attainment Level	2.98	2.98	2.98	-	2.00	-	-	-	-	-	-	-
CEP804	Project – Part II	A	Prerana Patil	Target Level	-	3.00	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	-	2.98	2.98	2.00	-	-	-	-	-	-	-	-
CEC801	Design And Drawing Of Reinforced Concrete Structures	B	Akshay Mistry	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.00	2.00	2.00	-	-	-	-	-	-	-	-	-
CEC802	Construction Management	B	Monica More	Target Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-
				Attainment Level	2.98	2.98	2.98	2.98	2.98	2.98	-	-	-	-	-	-
CEDLO80 32	Industrial Waste Treatment	B	Purva Wari	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.00	2.00	2.00	-	-	-	-	-	-	-	-	-
CEDLO80 32	Construction Engg	B	Ghufran Khan	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	3.00	2.98	2.98	-	-	-	-	-	-	-	-	-
CEP804	Project – Part II	A & B	Akshay naik	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	3.00	2.98	2.98	-	-	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Computer Engineering

Course Code	Subject	Div	Faculty Name	PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
Semester III																
CSC301	Applied Mathematics-III	-	Yogendra Vishwakarma	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	3.00
				Attainment Level	1.48	1.48	1.48	-	-	-	-	-	-	-	-	-
CSC302	Digital Logic Design and Analysis	-	Vinit Raut	Target Level	3.00	-	2.00	2.00	2.00	-	-	-	-	-	-	3.00
				Attainment Level	0.52	-	1.08	0.60	0.92	-	-	-	-	-	-	-
CSC303	Discrete Mathematics	-	Pratiksha Deshmukh / Akshata Raut	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00
				Attainment Level	2.16	2.36	1.64	2.36	2.00	-	-	-	-	-	-	-
CSC304	Electronic Circuits and Communication Fundamentals	-	Saniket Kudoo	Target Level	3.00	-	3.00	3.00	-	3.00	-	-	-	-	-	-
				Attainment Level	1.08	-	1.08	0.88	-	1.08	-	-	-	-	-	-
CSC305	Data Structures	-	Bhushan Talekar	Target Level	3.00	-	2.00	3.00	2.00	-	-	-	-	-	-	-
				Attainment Level	0.19	-	0.06	0.28	0.28	-	-	-	-	-	-	-
CSL301	Digital System Lab	-	Vinit Raut	Target Level	-	-	3.00	3.00	3.00	-	-	-	-	-	-	3.00
				Attainment Level	-	-	3.00	3.00	3.00	-	-	-	-	-	-	-
CSL302	Basic Electronics Lab	-	Saniket Kudoo	Target Level	3.00	-	3.00	3.00	-	3.00	-	-	-	-	-	-
				Attainment Level	3.00	-	3.00	3.00	-	3.00	-	-	-	-	-	-
CSL303	Data structure Lab	-	Bhushan Talekar	Target Level	3.00	-	3.00	3.00	3.00	-	-	-	-	-	-	-
				Attainment Level	2.80	-	2.44	3.00	3.00	-	-	-	-	-	-	-
CSL304	OOPM(Java) Lab	-	Dnyaneshwar Bhabad	Target Level	3.00	-	3.00	-	3.00	-	-	-	-	-	-	3.00
				Attainment Level	3.00	-	3.00	-	2.80	-	-	-	-	-	-	-
Semester IV																
CSC401	Applied Mathematics-IV	-	Yogendra Vishwakarma	Target Level	3.00	2.00	-	2.00	2.00	-	-	2.00	-	-	3.00	-
				Attainment Level	1.20	1.56	-	1.56	1.56	-	-	1.56	-	-	1.56	-
CSC402	Analysis of Algorithm	-	Pratiksha Deshmukh	Target Level	3.00	3.00	3.00	3.00	2.00	-	-	-	-	-	-	3.00
				Attainment Level	0.92	1.08	0.92	1.08	0.72	-	-	-	-	-	-	-
CSC403		-	Vinit Raut	Target Level	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

	Computer Organization and Architecture			Attainment Level	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	-
CSC404	Computer Graphics	-	Akshata Raut	Target Level	2.00	3.00	-	3.00	3.00	-	2.00	-	-	-	-	-
				Attainment Level	0.88	0.88	-	0.88	0.88	-	0.88	-	-	-	-	-
CSC405	Operating System	-	Janhavi Sangoi	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	3.00	-	-
				Attainment Level	2.60	2.60	2.40	2.40	2.40	-	-	-	-	-	2.40	-
CSL401	Analysis of Algorithm Lab	-	Pratiksha Deshmukh	Target Level	3.00	3.00	3.00	3.00	2.00	-	-	-	-	-	-	3.00
				Attainment Level	2.52	2.52	2.32	2.68	2.68	-	-	-	-	-	-	-
CSL402	Computer Graphics Lab	-	Akshata Raut	Target Level	3.00	2.00	3.00	3.00	2.00	-	-	-	-	-	-	2.00
				Attainment Level	2.32	2.32	2.32	2.48	2.32	-	-	-	-	-	-	-
CSL403	Processor Architecture Lab	-	Vinit Raut	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	3.00
				Attainment Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-
CSL404	Operating System Lab	-	Janhavi Sangoi	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	3.00	-	-
				Attainment Level	2.40	2.24	2.24	2.40	2.40	-	-	-	-	-	2.40	-
CSL405	Open Source Tech Lab	-	Dnyaneshwar Bhabad	Target Level	3.00	2.00	-	2.00	2.00	-	-	2.00	-	-	3.00	-
				Attainment Level	1.20	1.56	-	1.56	1.56	-	-	-	1.56	-	-	1.56
Semester V																
CPC501	Microprocessor	-	Umesh Mohite	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	3.00
				Attainment Level	2.20	2.20	2.36	2.36	-	-	-	-	-	-	-	-
CPC502	Operating System	-	Sunita Naik	Target Level	3.00	3.00	-	-	3.00	-	-	3.00	3.00	-	-	3.00
				Attainment Level	2.28	2.48	-	-	2.28	-	-	2.28	2.28	-	-	-
CPC503	Structured and Object Oriented Analysis and Design	-	Pallavi Vartak	Target Level	-	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-
				Attainment Level	-	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-
CSC504	Computer Networks	-	Pratiksha Deshmukh	Target Level	3.00	3.00	3.00	2.00	3.00	2.00	-	-	-	-	-	-
				Attainment Level	2.64	2.64	2.64	2.00	2.64	2.00	-	-	-	-	-	-
CPL501	Web Technologies Laboratory	-	Saniket Kudoo	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	2.00	-
				Attainment Level	3.00	2.64	2.64	2.64	2.64	-	-	-	-	-	-	3.00
CPL502	Business Comm. & Ethics	-	Swaranjali Vidyasagar	Target Level	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00	3.00
				Attainment Level	2.91	-	-	-	-	-	-	-	-	2.89	2.89	2.89





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Semester VI																
CPC601	System Programming and Compiler Construction	-	Bhushan Talekar	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00
				Attainment Level	2.68	2.68	2.68	2.84	1.92	-	-	-	-	-	-	-
CPC602	Software Engineering	-	Pallavi Vartak	Target Level	2.00	-	3.00	-	3.00	-	-	-	-	-	2.00	-
				Attainment Level	2.80	-	2.80	-	2.80	-	-	-	-	-	-	2.80
CPC603	Distributed Databases	-	Dnyaneshwar Bhabad	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	3.00
				Attainment Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-
CPC604	Mobile Communication and Computing	-	Reshma Chaudhari	Target Level	3.00	3.00	-	-	3.00	-	-	-	-	-	-	3.00
				Attainment Level	1.40	1.40	-	-	1.56	-	-	-	-	-	-	-
CPE6012	Project Management	-	Umesh Mohite	Target Level	3.00	-	3.00	-	3.00	-	-	-	-	-	-	3.00
				Attainment Level	1.50	-	1.00	-	1.50	-	-	-	-	-	-	-
CPL601	Network Programming Laboratory	-	Sunita Naik / Saniket Kudoo	Target Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-
				Attainment Level	2.60	2.60	2.60	2.60	2.60	2.60	-	-	-	-	-	-
Semester VII																
CPC701	Digital Signal Processing	-	Reshma Chaudhari	Target Level	3.00	3.00	-	-	3.00	3.00	-	-	-	-	-	-
				Attainment Level	2.04	2.04	-	-	2.20	2.20	-	-	-	-	-	-
CPC702	Cryptography and System Security	-	Ashwini Save	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-
				Attainment Level	2.20	2.20	2.20	2.20	2.20	-	-	-	-	-	-	-
CPC703	Artificial Intelligence	-	Dr. Tatwadarshi P N	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	2.83	2.68	2.48	2.64	-	-	-	-	-	-	-	-
CPE7021	Advance Algorithms	-	Janhavi Sangoi	Target Level	2.00	-	2.00	3.00	-	-	-	-	-	-	-	3.00
				Attainment Level	2.00	-	1.60	2.00	-	-	-	-	-	-	-	-
CPP701	Project I	-	Janhavi Sangoi	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	3.00	-	3.00	-
				Attainment Level	2.80	2.80	2.80	2.80	-	-	-	-	2.80	-	2.80	-
CPL701	Network Threats and Attacks Laboratory	-	Nishigandha K. / Akshata Raut/ Pratiksha Deshmukh	Target Level	3.00	3.00	-	3.00	3.00	-	-	8.00	-	-	-	-
				Attainment Level	3.00	3.00	-	3.00	3.00	-	-	3.00	-	-	-	-
Semester VIII																
CPC801	Data Warehouse and Mining	-	Ashwini Save	Target Level	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	-
				Attainment Level	3.00	3.00	2.64	-	3.00	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

CPC802	Human Machine Interaction	-	Saniket Kudoo	Target Level	3.00	3.00	2.00	-	3.00	-	-	-	-	-	-	
				Attainment Level	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	
CPC803	Parallel and distributed Systems	-	Sunita Naik	Target Level	3.00	3.00	-	2.00	3.00	2.00	-	-	-	-	-	
				Attainment Level	2.80	2.60	-	3.00	3.00	2.60	-	-	-	-	-	
CPE8031	Machine Learning	-	Tatwadarshi N.	Target Level	3.00	3.00	-	3.00	3.00	-	-	-	-	-	-	
				Attainment Level	2.20	2.00	-	2.00	2.20	-	-	-	-	-	-	
CPP802	Project II	-	Janhavi Sangoi	Target Level	3.00	-	-	3.00	3.00	-	-	3.00	3.00	3.00	-	-
				Attainment Level	2.80	-	-	2.80	2.80	-	-	2.80	2.80	2.80	-	-
CPL801	Cloud Computing Laboratory	-	Tatwadarshi N/ Umesh Mohite / Vinit Raut	Target Level	-	-	2.00	-	3.00	3.00	-	-	-	-	2.00	
				Attainment Level	-	-	3.00	-	3.00	3.00	-	-	-	-	-	2.80





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Electrical Engineering

Course Code	Subject	Div	Faculty Name		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12		
Semester III																		
EEC301	Applied Mathematics - III	-	Shiksha Singh	Target Level	2.83	3.00	3.00	2.75	-	-	-	-	-	-	-	-		
				Direct Attainment Level	2.40	2.40	2.40	2.40	-	-	-	-	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-	-
EEC302	Electronics Devices and Circuits	-	Bhushan Save	Target Level	3.00	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-		
				Direct Attainment Level	2.30	2.00	1.00	2.60	-	2.60	-	-	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	-	-
EEC303	Conventional and Non-Conventional Power Generation	-	Rahul Abhyankar	Target Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-		
				Direct Attainment Level	1.40	1.40	1.40	1.40	1.40	1.40	-	-	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-
EEC304	Electrical and Electronics Measurement	-	Bhavita Patil	Target Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-		
				Direct Attainment Level	1.40	1.40	1.40	1.40	1.40	1.40	-	-	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	2.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-
EEC305	Electrical Machine - I	-	Anojkumar Yadav	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-		
				Direct Attainment Level	1.00	1.30	1.00	1.00	-	-	-	-	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-	-
EEL301	Electrical and Electronics Measurement Lab	-	Bhavita Patil	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-		
				Direct Attainment Level	3.00	3.00	3.00	1.50	-	-	-	-	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-	-
EEL302	Object Oriented Programming and Methodology Lab	-	Jaanhvi Sangoi	Target Level	-	2.00	2.00	2.00	2.50	-	-	-	-	-	-	-		
				Direct Attainment Level	-	2.00	2.00	2.00	2.00	-	-	-	-	-	-	-	-	-
				Indirect Attainment Level	-	1.60	1.60	1.60	1.60	-	-	-	-	-	-	-	-	-
EEL303	Electronics Lab - I	-	Bhushan Save	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-		
				Direct Attainment Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-	-	-
EEL304	Electrical Machine Lab - I	-	Anojkumar Yadav	Target Level	3.00	-	3.00	-	3.00	-	-	-	-	-	-	-		





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Direct Attainment Level	2.50	-	3.00	-	3.00	-	-	-	-	-	-
				Indirect Attainment Level	2.00	-	3.00	-	3.00	-	-	-	-	-	-
Semester IV															
EEC401	Applied Mathematics - IV	-	Shiksha Singh	Target Level	2.83	3.00	3.00	2.75	-	-	-	-	-	-	-
				Direct Attainment Level	2.40	2.40	2.40	2.40	-	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-
EEC402	Power System - I	-	Prajakta Patil	Target Level	3.00	3.00	3.00	3.00	3.00	3.00	--	--	--	--	--
				Direct Attainment Level	1.20	1.20	1.40	1.40	1.40	1.40	--	--	--	--	--
				Indirect Attainment Level	3.00	2.00	3.00	3.00	3.00	3.00	--	--	--	--	--
EEC403	Electrical Machines – II	-	Anojkumar Yadav	Target Level	3.00	3.00	3.00	-	3.00	3.00	-	-	-	-	3.00
				Direct Attainment Level	1.20	1.20	1.40	-	1.20	1.20	-	-	-	-	1.20
				Indirect Attainment Level	1.00	3.00	3.00	-	3.00	3.00	-	-	-	-	3.00
EEC404	Electromagnetic Field and wave Theory	-	Bhavita Patil	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	3.00	-	-	-
				Direct Attainment Level	1.40	1.40	1.40	1.40	1.40	-	-	1.40	-	-	-
				Indirect Attainment Level	1.00	3.00	3.00	3.00	3.00	-	-	3.00	-	-	-
EEC405	Analog and Digital Integrated Circuits	-	Bhushan Save	Target Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-
				Direct Attainment Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	3.00	3.00	2.00	3.00	-	-	-	-	-
EEC406	Electrical Network	-	Chitralekha Vangala	Target Level	3.00	3.00	2.00	2.00	2.00	-	-	2.00	-	-	-
				Direct Attainment Level	1.40	1.40	1.40	1.40	1.40	-	-	1.40	-	-	-
				Indirect Attainment Level	3.00	1.00	3.00	3.00	2.00	-	-	3.00	-	-	-
EEL401	Simulation Lab - I	-	Bhavita Patil	Target Level	-	3.00	-	3.00	-	-	-	-	-	-	-
				Direct Attainment Level	-	3.00	-	3.00	-	-	-	-	-	-	-
				Indirect Attainment Level	-	3.00	-	3.00	-	-	-	-	-	-	-
EEL402	Electrical Machines Lab - II	-	Kavita Mhaskar	Target Level	3.00	3.00	3.00	-	3.00	-	-	-	-	-	3.00
				Direct Attainment Level	3.00	2.50	3.00	-	1.50	-	-	-	-	-	3.00
				Indirect Attainment Level	3.00	3.00	3.00	-	3.00	-	-	-	-	-	3.00
EEL403	Electronics Lab II	-	Bhushan Save	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	
				Direct Attainment Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Indirect Attainment Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-
EEL404	Electrical Workshop	-	Mukeshkumar Mishra	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-
				Direct Attainment Level	3.00	3.00	3.00	3.00	2.50	-	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	3.00	3.00	2.00	-	-	-	-	-	-	-
Semester V																
EEC501	Protection and Switchgear Engineering	-	Sunil Suknale	Target Level	2.00	2.00	2.00	-	3.00	3.00	3.00	-	-	-	-	-
				Direct Attainment Level	1.40	1.40	1.40	-	1.40	1.40	1.40	-	-	-	-	-
				Indirect Attainment Level	2.00	3.00	3.00	-	3.00	3.00	3.00	-	-	-	-	-
EEC502	Electrical Machines - II	-	Piyali Mondal	Target Level	3.00	2.00	2.00	3.00	-	2.00	-	-	-	-	-	2.00
				Direct Attainment Level	1.40	1.40	1.40	1.40	-	1.40	-	-	-	-	-	1.00
				Indirect Attainment Level	3.00	3.00	3.00	2.00	-	3.00	-	-	-	-	-	2.00
EEC503	Electromagnetic Field and wave Theory	-	Bhavita Patil	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	3.00	-	-	-	-
				Direct Attainment Level	1.40	1.40	1.40	1.40	1.40	-	-	1.40	-	-	-	-
				Indirect Attainment Level	1.00	3.00	3.00	1.00	2.00	-	-	3.00	-	-	-	-
EEC504	Power Electronics	-	Sushantkumar	Target Level	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	-	-	-
				Direct Attainment Level	1.20	1.40	1.40	1.40	1.20	1.40	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-
EEC505	Communication Engineering	-	Vinodkumar Pal	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00
				Direct Attainment Level	1.40	1.40	1.40	1.40	1.40	-	-	-	-	-	-	1.40
				Indirect Attainment Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00
Semester VI																
EEC601	Power System Analysis	-	Prajakta Patil	Target Level	3.00	3.00	3.00	2.00	2.00	3.00	-	-	-	-	-	-
				Direct Attainment Level	2.80	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-
				Indirect Attainment Level	2.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-
EEC602	Electrical Machines – III	-	Rahul Abhyankar	Target Level	3.00	3.00	2.00	2.00	-	-	-	-	-	-	-	-
				Direct Attainment Level	1.40	1.20	1.40	1.40	-	-	-	-	-	-	-	-
				Indirect Attainment Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-
EEC603	Utilization of Electrical Energy	-	Kavita Mhaskar	Target Level	3.00	3.00	3.00	-	3.00	3.00	-	-	-	-	-	3.00
				Direct Attainment Level	1.20	1.40	1.40	-	1.40	1.40	-	-	-	-	-	1.40





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Indirect Attainment Level	1.00	3.00	3.00	-	0.00	1.00	-	-	-	-	-	3.00	
EEC604	Control System – I	-	Sushantkumar	Target Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	
				Direct Attainment Level	2.00	2.20	2.00	2.20	2.00	2.20	-	-	-	-	-	-	
				Indirect Attainment Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	
EEC605	Microcontroller and its Applications	-	Ashwini Haryan	Target Level	3.00	3.00	3.00	3.00	3.00	2.60	-	2.60	3.00	-	2.14	2.60	
				Direct Attainment Level	3.00	3.00	3.00	2.90	3.00	2.80	-	2.80	3.00	-	3.00	2.80	
				Indirect Attainment Level	3.00	3.00	3.00	3.00	3.00	3.00	-	3.00	3.00	-	3.00	3.00	
EEC606	Project Management	-	Sunil Suknale	Target Level	-	-	-	-	-	2.00	2.00	3.00	3.00	-	3.00	2.00	
				Direct Attainment Level	-	-	-	-	-	3.00	3.00	2.80	3.00	-	2.80	2.80	
				Indirect Attainment Level	-	-	-	-	-	3.00	3.00	3.00	3.00	-	3.00	3.00	
Semester VII																	
EEC701	Power System Operation and Control	-	Kavita Mhaskar	Target Level	3.00	3.00	3.00	3.00	2.00	2.00	-	-	-	-	-	-	
				Direct Attainment Level	1.40	1.40	1.40	1.40	1.20	1.20	-	-	-	-	-	-	
				Indirect Attainment Level	3.00	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	
EEC702	High Voltage DC Transmission	-	Rahul Abhyankar	Target Level	2.00	3.00	-	-	2.00	3.00	3.00	-	-	-	-	3.00	
				Direct Attainment Level	1.40	1.20	-	-	1.40	1.40	1.40	-	-	-	-	-	0.60
				Indirect Attainment Level	3.00	3.00	-	-	3.00	3.00	3.00	-	-	-	-	-	3.00
EEC703	Electrical Machine Design	-	Piyali Mondal	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-	
				Direct Attainment Level	1.40	1.40	1.40	1.40	-	-	-	-	-	-	-	-	
				Indirect Attainment Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-	
EEC704	Control System- II	-	Chitrallekha Vangala	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	3.00	-	-	-	-	
				Direct Attainment Level	1.40	1.40	1.20	1.40	1.40	-	-	1.40	-	-	-	-	
				Indirect Attainment Level	3.00	3.00	3.00	3.00	3.00	-	-	3.00	-	-	-	-	
EEC705	High Voltage Engineering	-	Pratik Mahale	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	
				Direct Attainment Level	2.80	2.60	3.00	2.80	2.80	-	-	-	-	-	-	-	
				Indirect Attainment Level	3.00	2.00	1.00	2.00	1.00	-	-	-	-	-	-	-	
EEC706	Project - I	-	Pratik Mahale	Target Level	2.00	2.00	-	2.00	2.00	-	-	-	2.00	2.00	-	-	
				Direct Attainment Level	3.00	3.00	-	3.00	3.00	-	-	-	3.00	3.00	-	-	
				Indirect Attainment Level	3.00	3.00	-	3.00	3.00	-	-	-	3.00	3.00	-	-	





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Semester VIII																	
EEC801	Design, Management and Auditing of Electrical System	-	Pratik Mahale	Target Level	3.00	3.00	3.00	3.00	3.00	-	3.00	-	-	-	-	-	
				Direct Attainment Level	3.00	2.60	3.00	2.60	2.80	-	3.00	-	-	-	-	-	-
				Indirect Attainment Level	3.00	2.00	3.00	2.00	3.00	-	2.00	-	-	-	-	-	-
EEC802	Drives and Control	-	Anojkumar Yadav	Target Level	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-	
				Direct Attainment Level	2.85	3.00	3.00	-	-	-	-	-	-	-	-	-	
				Indirect Attainment Level	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	
EEC803	Power System Planning and Reliability	-	Chitralkha Vangala	Target Level	3.00	3.00	-	3.00	-	3.00	3.00	3.00	-	-	-	-	
				Direct Attainment Level	3.00	3.00	-	2.60	-	3.00	2.60	2.80	-	-	-	-	
				Indirect Attainment Level	2.00	1.00	-	3.00	-	3.00	2.00	3.00	-	-	-	-	
EEC804	Flexible AC Transmission System	-	Piyali Mondal	Target Level	2.00	2.00	2.00	2.00	2.00	-	-	-	-	-	-	-	
				Direct Attainment Level	1.20	1.20	1.20	1.20	1.20	-	-	-	-	-	-	-	
				Indirect Attainment Level	2.00	2.00	2.00	2.00	2.00	-	-	-	-	-	-	-	
EEC805	Project-II	-	Pratik Mahale	Target Level	2.00	2.00	-	2.00	2.00	-	-	-	2.00	2.00	-	-	
				Direct Attainment Level	3.00	3.00	-	3.00	3.00	-	-	-	3.00	3.00	-	-	
				Indirect Attainment Level	3.00	3.00	-	3.00	3.00	-	-	-	3.00	3.00	-	-	





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Electronics and Telecommunication Engineering

Course Code	Subject	Div.	Faculty Name		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12		
Semester III																		
ECC301	Applied Mathematics-III	-	Bhagyashree Netke	Target Level	2.75	2.33	2	2	-	-	-	-	-	-	-	-		
				Direct Attainment Level	0.36	0.36	0.39	0.34	-	-	-	-	-	-	-	-	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	-	
ECC302	Electronic Devices & Circuits-I	-	Nutan Malekar / Shoeb Shaikh	Target Level	2.00	2.00	2.00	-	-	-	-	-	-	-	1.00	-		
				Direct Attainment Level	0.33	0.43	0.43	-	-	-	-	-	-	-	-	-	0.33	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ECC303	Digital System Design	-	Nikita Thalia	Target Level	3.00	3.00	3.00	3.00	-	-	-	1.00	-	-	-	-		
				Direct Attainment Level	1.36	1.29	1.27	1.13	-	-	-	1.12	-	-	-	-	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	-	
ECC304	Circuit Theory and Networks	-	Ameya Purandare	Target Level	2.00	3.00	2.00	2.00	-	-	-	-	-	-	-	-		
				Direct Attainment Level	0.52	0.48	0.46	0.47	-	-	-	-	-	-	-	-		
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-		
ECC305	Electronic Instrumentation & Control	-	Kushal Suvarna	Target Level	3.00	2.50	2.00	-	-	-	-	-	-	2.00	-	-		
				Direct Attainment Level	0.30	0.32	0.29	-	-	-	-	-	-	-	0.30	-	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-		
ECL301	Electronic Devices & Circuits - I Lab	-	Nutan Malekar / Shoeb Shaikh	Target Level	1.00	1.67	2.00	2.00	-	-	-	-	-	-	-	-		
				Direct Attainment Level	2.93	2.93	2.93	2.93	-	-	-	-	-	-	-	-		
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-		
ECL302	Digital System Design Lab	-	Nikita Thalia	Target Level	3.00	3.00	3.00	3.00	-	-	-	1.00	-	-	-	-		
				Direct Attainment Level	2.95	2.96	2.96	2.90	-	-	-	2.94	-	-	-	-		
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-		
ECL303	OOP using JAVA Lab	-	Kushal Suvarna	Target Level	1.75	2.00	-	-	-	-	-	-	-	-	2.00	-		
				Direct Attainment Level	2.89	2.89	-	-	-	-	-	-	-	-	-	2.90	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-		
Semester IV																		
ECC401	Applied Mathematics IV	-	Shiksha Singh	Target Level	2.83	3.00	3.00	2.75	-	-	-	-	-	-	-	-		





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Direct Attainment Level	0.52	0.52	0.52	0.52	-	-	-	-	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-
ECC402	Electronic Devices & Circuits-II	-	Nutan Malekar	Target Level	-	2.00	2.00	2.00	2.33	-	-	-	-	2.00	-
				Direct Attainment Level	-	0.53	0.53	0.53	0.56	-	-	-	-	0.53	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-
ECC403	Linear Integrated Circuits	-	Kushal Suvarna	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	2.00	2.00	-
				Direct Attainment Level	0.45	0.45	0.45	0.45	-	-	-	-	0.45	0.45	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-
ECC 404	Signals & Systems	-	Archana Ingle	Target Level	3.00	2.50	2.50	1.80	-	-	-	-	2.00	-	2.80
				Direct Attainment Level	0.54	0.54	0.54	0.54	-	-	-	-	0.54	-	0.54
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-
ECC 405	Principles of Communication Engineering	-	Kaustubha Gawas / Ameya Purandare	Target Level	2.00	2.00	-	-	2.00	-	2.00	2.00	-	-	-
				Direct Attainment Level	0.52	0.52	-	-	0.56	-	0.52	0.52	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-
ECL401	Electronic Devices & Circuits-II Lab	-	Nutan Malekar	Target Level	-	1.80	2.00	-	-	-	-	2.00	2.00	-	1.00
				Direct Attainment Level	-	2.92	2.92	-	-	-	-	2.92	2.92	-	2.92
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-
ECL402	Linear Integrated Circuits Lab	-	Kushal Suvarna	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	2.00	2.00
				Direct Attainment Level	2.91	2.91	2.91	2.91	-	-	-	-	-	2.91	2.91
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-
ECL403	Principles of Communication Engineering Lab	-	Kaustubha Gawas / Ameya Purandare	Target Level	2.00	2.00	-	2.00	-	-	-	-	2.00	-	-
				Direct Attainment Level	2.92	2.92	-	2.91	-	-	-	-	2.94	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-
Semester V															
ETC501	Microcontrollers and Applications	-	Kaustubha Desai / Nutan Malekar	Target Level	2.00	2.00	-	-	2.00	2.00	-	-	-	-	1.00
				Direct Attainment Level	0.39	0.41	-	-	0.49	0.48	-	-	-	-	0.49
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-
ETC502	Analog Communication	-	Ashwini Kothavale	Target Level	2.00	2.00	2.00	2.00	-	-	-	-	-	2.00	-
				Direct Attainment Level	2.92	2.94	2.92	2.96	-	-	-	-	-	2.95	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-
ETC503		-	Shoeb Shaikh	Target Level	3.00	3.00	-	-	-	-	-	-	-	3.00	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

	Random Signal Analysis			Direct Attainment Level	2.08	2.08	-	-	-	-	-	-	-	-	2.10	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	
ETC504	RF Modeling and Antennas	-	Ameya Purandare / Chitra Takle	Target Level	2.50	3.00	3.00	2.00	2.00	2.00	-	-	-	-	2.00	-	
				Direct Attainment Level	2.09	2.11	2.08	2.16	2.14	2.08	-	-	-	-	-	2.12	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	-
ETC505	Integrated Circuits	-	Mohini Ghotekar	Target Level	2.00	2.00	2.00	2.00	-	-	-	2.00	-	-	2.00	-	
				Direct Attainment Level	0.53	0.53	0.54	0.58	-	-	-	0.58	-	-	0.54	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	-
ETS506	Business Communication and Ethics	-	Trupti Patil, Swaranjali Vidyasagar	Target Level	-	-	-	-	-	2.50	2.50	2.50	2.33	2.50	2.50	-	
				Direct Attainment Level	-	-	-	-	-	2.82	2.83	2.83	2.82	2.82	2.82	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	
ETL501	Microcontrollers and Applications Laboratory	-	Kaustubha Desai / Nutan Malekar	Target Level	2.00	2.00	-	-	-	-	-	-	-	-	-	-	
				Direct Attainment Level	2.95	2.80	-	-	-	-	-	-	-	-	-	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	
ETL502	Communication Engineering Laboratory I	-	Ashwini Kothavale / Mohini Ghotekar	Target Level	3.00	2.00	2.00	3.00	2.33	-	-	-	-	-	-	-	
				Direct Attainment Level	2.93	2.93	2.92	2.92	2.93	-	-	-	-	-	-	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	
ETL503	Communication Engineering Laboratory II	-	Ameya Purandare / Mohini Ghotekar	Target Level	2.50	2.00	2.50	2.00	2.00	2.00	-	-	-	-	-	-	
				Direct Attainment Level	2.92	2.94	2.94	2.94	2.92	2.92	-	-	-	-	-	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	
ETL504	Mini Project I	-	Ashwini Kothavale / Shoeb Shaikh	Target Level	2.00	2.50	3.00	2.50	-	-	-	3.00	3.00	-	3.00	-	
				Direct Attainment Level	2.95	2.95	2.95	2.95	-	-	-	2.95	2.95	-	2.95	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	
Semester VI																	
ETC601	Digital Communication	-	Meena Perla	Target Level	-	2.00	2.50	2.00	-	-	-	-	-	-	-	-	
				Direct Attainment Level	-	2.83	2.82	2.81	-	-	-	-	-	-	-	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	
ETC602	Discrete Time Signal Processing	-	Madhura Ranade	Target Level	1.00	1.00	1.00	3.00	2.00	1.00	-	-	-	1.00	1.00	-	
				Direct Attainment Level	2.10	2.02	1.85	2.02	2.10	2.02	-	-	-	1.85	2.01	-	
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-	
ETC603		-	Kaustubha Gawas	Target Level	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	1.00	-		





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

	Computer Communication and Telecom Networks			Direct Attainment Level	2.89	2.81	2.89	2.89	2.89	2.89	-	-	-	2.89	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETC604	Television Engineering	-	Ameya Purandare	Target Level	2.50	2.00	3.00	2.50	2.00	-	2.00	-	2.00	-	-	-
				Direct Attainment Level	2.13	2.18	2.00	1.98	2.18	-	1.96	-	2.18	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETC605	Operating Systems	-	Mohini Ghotekar	Target Level	2.00	2.00	1.00	2.00	-	-	-	-	3.00	3.00	2.75	-
				Direct Attainment Level	2.97	2.92	2.89	2.95	-	-	-	-	2.97	2.97	2.95	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETC606	VLSI Design	-	Pratik Parsewar	Target Level	2.00	1.50	2.00	-	-	-	-	-	-	-	-	-
				Direct Attainment Level	0.35	0.40	0.44	-	-	-	-	-	-	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETL601	Discrete Time Signal Processing Laboratory	-	Madhura Ranade	Target Level	3.00	3.00	3.00	1.00	1.00	3.00	-	-	-	-	-	-
				Direct Attainment Level	1.55	1.55	1.55	1.55	1.56	1.55	-	-	-	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETL602	Communication Engineering Laboratory III	-	Meena Perla	Target Level	2.00	2.00	2.50	2.50	-	-	-	-	-	-	-	-
				Direct Attainment Level	2.87	2.86	2.87	2.87	-	-	-	-	-	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETL603	Communication Engineering Laboratory IV		Pratik Parsewar / Ameya Purandare	Target Level	2.20	2.00	2.00	-	2.00	-	-	-	-	-	2.00	-
				Direct Attainment Level	2.93	2.92	2.93	-	2.93	-	-	-	-	-	2.93	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETL604	Mini Project II	-	Kushal Suvarna	Target Level	2.50	2.00	3.00	3.00	-	2.00	-	2.50	3.00	3.00	3.00	-
				Direct Attainment Level	2.90	2.90	2.90	2.90	-	2.90	-	2.90	2.90	2.90	2.90	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
Semester VII																
ETC701	Image and Video Processing	-	Chitra Takle	Target Level	3.00	2.00	-	2.00	3.00	-	-	-	-	-	-	-
				Direct Attainment Level	0.49	0.49	-	0.51	0.39	-	-	-	-	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETC702	Mobile Communication	-	Archana Ingle	Target Level	2.50	2.50	2.25	2.75	1.00	3.00	-	-	-	-	2.00	-
				Direct Attainment Level	1.17	1.17	1.15	1.13	1.21	1.13	-	-	-	-	1.21	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETC703		-	Kaustubha Desai	Target Level	2.00	-	2.00	2.00	-	-	-	-	2.00	2.00	2.00	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

	Optical Communication Networks			Direct Attainment Level	0.53	-	0.49	0.55	-	-	-	-	0.53	0.57	0.53	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETC704	Microwave and Radar Engineering	-	Mohini Ghotekar / Ashwini Kothawale	Target Level	2.66	2.33	-	2.00	2.00	-	-	-	-	-	-	-
				Direct Attainment Level	1.29	1.35	-	1.39	1.37	-	-	-	-	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETE701	Data Compression and Encryption	-	Karishma Raut	Target Level	2.00	2.00	2.00	2.00	2.00	-	-	-	-	2.00	-	-
				Direct Attainment Level	1.39	1.35	1.37	1.39	1.39	-	-	-	-	1.39	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETL701	Image and Video Processing Laboratory	-	Chitra Takle	Target Level	3.00	-	-	2.00	3.00	-	-	-	-	-	-	-
				Direct Attainment Level	2.93	-	-	2.94	2.93	-	-	-	-	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETL702	Advanced communication Engineering. Laboratory I Mobile Communication System Lab	-	Archana Ingle / Ameya Purandare	Target Level	2.00	-	3.00	-	2.00	-	-	-	-	-	3.00	-
				Direct Attainment Level	2.93	-	2.92	-	2.93	-	-	-	-	-	2.91	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETL703	Advanced communication Engineering. Laboratory II Mobile Communication System Lab	-	Kaustubha / Mohini	Target Level	3.00	2.00	-	2.50	-	-	-	-	-	3.00	-	-
				Direct Attainment Level	2.91	2.88	-	2.89	-	-	-	-	-	2.92	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETEL701	Data Compression and Encryption Lab	-	Karishma Raut	Target Level	2.00	2.00	2.00	2.00	-	-	-	-	-	-	-	-
				Direct Attainment Level	2.95	2.95	2.94	2.94	-	-	-	-	-	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETP 701	Project-I	-	Karishma Raut	Target Level	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00	2.00	-
				Direct Attainment Level	2.93	2.93	2.93	2.94	-	-	-	2.93	-	2.93	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
Semester VIII																
ETC801	Wireless Networks	-	Mohini Ghotekar / Pratik Parsewar	Target Level	2.00	-	2.00	2.00	2.00	-	-	-	-	3.00	2.00	-
				Direct Attainment Level	1.96	-	1.96	2.08	2.09	-	-	-	-	2.08	2.06	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETC802	Satellite communication and Networks	-	Chitra Takle	Target Level	2.00	2.00	3.00	2.00	-	-	-	-	-	2.00	-	-
				Direct Attainment Level	2.05	2.17	2.09	2.17	-	-	-	-	-	2.17	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

ETC803	Internet and Voice Communication	-	Karishma Raut	Target Level	2.00	2.00	2.00	2.00	2.00	-	-	-	-	2.00	-	-
				Direct Attainment Level	1.34	1.26	1.30	1.34	1.37	-	-	-	-	1.37	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETE802	Telecom Network Management	-	Shoeb Shaikh	Target Level	-	-	2.00	2.00	2.00	-	-	2.00	2.00	2.00	-	-
				Direct Attainment Level	-	-	1.97	1.97	2.05	-	-	2.00	1.89	2.03	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETL801	Wireless Networks Laboratory	-	Pratik Parsewar	Target Level	2.00	2.00	-	1.50	-	2.00	-	-	1.00	2.00	1.00	-
				Direct Attainment Level	2.91	2.92	-	2.91	-	2.91	-	-	2.91	2.91	2.91	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETL802	Satellite communication and Networks Laboratory	-	Chitra Takle	Target Level	2.00	2.00	3.00	2.00	-	-	-	-	-	-	-	-
				Direct Attainment Level	2.93	2.92	2.92	2.92	-	-	-	-	-	-	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETL803	Internet and Voice Communication Laboratory	-	Karishma Raut / Meena Perla	Target Level	2.00	2.00	2.00	2.00	2.00	-	-	-	-	2.00	-	-
				Direct Attainment Level	2.94	2.93	2.94	2.95	2.94	-	-	-	-	2.94	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETEL802	Telecom Network Management	-	Shoeb Shaikh	Target Level	-	-	2.00	2.00	2.00	-	-	2.00	2.00	2.00	-	-
				Direct Attainment Level	-	-	2.94	2.94	2.93	-	-	2.93	2.93	2.93	-	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
ETP801	Project (Stage II)	-	Karishma Raut	Target Level	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00	2.00	-
				Direct Attainment Level	2.94	2.94	2.94	2.95	-	-	-	2.95	-	2.94	2.95	-
				Indirect Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Mechanical Engineering

Course Code	Subject	Div.	Faculty Name		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
Semester III																
MEC301	Applied Mathematics III	A	Ramashankar Prajapati	Target Level	2.00	2.50	-	3.00	-	-	-	-	3.00	-	-	2.00
				Attainment Level	1.73	1.35	-	2.24	-	-	-	-	-	-	1.52	-
MEC302	Thermodynamics	A	Aditi Pimple	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	0.20	0.13	-	-	-	-	-	-	-	-	-	-
MEC303	Strength of Materials	A	Mansi Lakhani	Target Level	3.00	2.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	1.29	1.28	1.28	-	-	-	-	-	-	-	-	-
MEL302	Strength of Materials - Lab.	A	Mansi Lakhani	Target Level	3.00	-	-	-	-	-	-	-	-	3.00	-	-
				Attainment Level	2.98	-	-	-	-	-	-	-	-	-	2.98	-
MEC304	Production Process- I	A	Tejas Chaudhari	Target Level	3.00	-	-	-	-	-	-	-	-	-	-	-
				Attainment Level	1.91	-	-	-	-	-	-	-	-	-	-	-
MEC305	Material Technology	A	Nilesh Nagare	Target Level	2.25	2.50	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	0.46	0.55	0.48	0.50	-	-	-	-	-	-	-	-
MEL303	Material Technology-LAB	A	Nilesh Nagare	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	2.80	2.80	-	-	-	-	-	-	-	-	-	-
MEL301	Computer Aided Machine Drawing	A	Priyank Vartak	Target Level	2.00	-	-	-	2.00	-	-	-	-	2.00	-	-
				Attainment Level	2.21	-	-	-	2.21	-	-	-	-	-	2.03	-
MEL304	Machine Shop Practice I	A	Ulhas Thakur	Target Level	2.00	-	-	-	2.00	-	-	-	-	-	-	-
				Attainment Level	0.88	-	-	-	0.88	-	-	-	-	-	-	-
MEC301	Applied Mathematics III	B	Ramashankar Prajapati	Target Level	2.00	2.50	-	3.00	-	-	-	-	3.00	-	-	-
				Attainment Level	1.48	1.28	-	2.17	-	-	-	-	-	-	1.24	-
MEC304	Production Process- I	B	Tejas Chaudhari	Target Level	3.00	-	-	-	-	-	-	-	-	-	-	-
				Attainment Level	2.04	-	-	-	-	-	-	-	-	-	-	-
MEC302	Thermodynamics	B	Omkar Joshi	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	0.18	0.10	-	-	-	-	-	-	-	-	-	-
MEC303	Strength of Materials	B	Akshay Naik	Target Level	3.00	-	-	-	-	-	-	-	-	3.00	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Attainment Level	2.78	-	-	-	-	-	-	-	-	2.78	-	-
MEL302	Strength of Materials-Lab	B	Akshay Naik	Target Level	3.00	-	-	-	-	-	-	-	-	3.00	-	-
				Attainment Level	2.78	-	-	-	-	-	-	-	-	2.78	-	-
MEL301	Computer Aided Machine Drawing	B	Vinit Raut	Target Level	2.00	-	-	-	2.00	-	-	-	-	2.00	-	-
				Attainment Level	2.15	-	-	-	2.15	-	-	-	-	2.14	-	-
MEC305	Material Technology	B	Nilesh Nagare	Target Level	2.25	2.50	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	0.46	0.57	0.49	0.53	-	-	-	-	-	-	-	-
MEL303	Material Technology - Lab	B	Nilesh Nagare	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	2.75	2.75	-	-	-	-	-	-	-	-	-	-
MEL304	Machine Shop Practice I	B	Ulhas Thakur	Target Level	2.00	-	-	-	2.00	-	-	-	-	-	-	-
				Attainment Level	0.88	-	-	-	0.88	-	-	-	-	-	-	-
Semester IV																
MEC401	Applied Mathematics IV	A	Ramashankar Prajapati	Target Level	2.00	2.00	2.00	-	-	-	-	-	-	-	-	2.00
				Attainment Level	1.23	1.23	1.23	-	-	-	-	-	-	-	-	1.23
MEC402	Fluid Mechanics	A	Mayur Jagtap	Target Level	3.00	2.00	2.00	-	-	-	-	-	-	-	-	-
				Attainment Level	1.31	1.58	1.58	-	-	-	-	-	-	-	-	-
MEL402	Fluid Mechanics - Lab.	A	Mayur Jagtap	Target Level	2.66	2.66	-	-	-	-	-	-	-	2.66	-	-
				Attainment Level	2.98	2.98	-	-	-	-	-	-	-	2.98	-	-
MEC405	Kinematics Of Machinery	A	Swapnil Raut	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	1.29	1.31	-	-	-	-	-	-	-	-	-	-
MEL404	Kinematics Of Machinery - Lab	A	Swapnil Raut	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	2.50	2.50	-	-	-	-	-	-	-	-	-	-
MEC404	Production Process- II	A	Mansi Lakhani	Target Level	3.00	-	-	-	2.00	-	-	-	-	-	-	-
				Attainment Level	1.30	-	-	-	1.04	-	-	-	-	-	-	-
MEL401	DBIR	A	Akhilesh Yadav	Target Level	-	2.00	2.00	-	2.00	2.00	2.00	-	2.00	-	-	2.00
				Attainment Level	-	2.00	2.00	-	2.00	2.00	2.00	-	2.00	-	-	2.00
MEC403	Industrial Electronics	A	Sushant Bansal	Target Level	2.00	2.00	2.00	2.00	2.00	-	-	-	-	-	-	-
				Attainment Level	0.47	0.44	0.07	0.07	0.56	-	-	-	-	-	-	-
MEL403	Industrial Electronics - Lab	A	Sushant Bansal	Target Level	2.00	2.00	2.00	2.00	2.00	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Attainment Level	2.13	2.08	2.00	2.17	2.17	-	-	-	-	-	-
MEL405	Machine Shop Practice II	A	Ulhas Thakur	Target Level	2.00	-	-	-	2.00	-	-	-	-	-	-
				Attainment Level	2.49	-	-	-	2.49	-	-	-	-	-	-
MEC401	Applied Mathematics IV	B	Ramashankar Prajapati	Target Level	2.00	2.50	-	3.00	-	-	-	-	3.00	-	-
				Attainment Level	1.48	1.28	-	2.17	-	-	-	-	1.24	-	-
MEC402	Fluid Mechanics	B	Chhaya Patil	Target Level	3.00	1.80	1.00	-	-	-	-	-	-	-	-
				Attainment Level	1.24	1.22	1.22	-	-	-	-	-	-	-	-
MEL402	Fluid Mechanics - Lab.	B	Chhaya Patil	Target Level	2.66	2.66	-	-	-	-	-	-	-	2.66	-
				Attainment Level	2.98	2.98	-	-	-	-	-	-	-	2.98	-
MEC405	Kinematics Of Machinery	B	Pratik Raut	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	0.54	0.47	-	-	-	-	-	-	-	-	-
MEL404	Kinematics Of Machinery - Lab	B	Pratik Raut	Target Level	3.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.07	2.07	-	-	-	-	-	-	-	-	-
MEC404	Production Process- II	B	Mansi Lakhani	Target Level	3.00	-	-	-	2.00	-	-	-	-	-	-
				Attainment Level	2.10	-	-	-	2.01	-	-	-	-	-	-
MEL401	DBIR	B	Akhilesh Yadav	Target Level	-	2.00	2.00	-	2.00	2.00	2.00	-	2.00	-	2.00
				Attainment Level	-	2.00	2.00	-	2.00	2.00	2.00	-	2.00	-	2.00
MEC403	Industrial Electronics	B	Sunil Suknale	Target Level	2.00	2.00	2.00	2.00	2.00	-	-	-	-	-	-
				Attainment Level	0.34	0.34	0.05	0.35	0.05	-	-	-	-	-	-
MEL403	Industrial Electronics - Lab	B	Sunil Suknale	Target Level	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-
				Attainment Level	2.96	2.96	2.96	2.95	2.95	-	-	-	-	-	-
MEL405	Machine Shop Practice II	B	Ulhas Thakur	Target Level	2.00	-	-	-	2.00	-	-	-	-	-	-
				Attainment Level	2.49	-	-	-	2.49	-	-	-	-	-	-
Semester V															
MEC501	I C Engines	A	Aniket Deshmukh	Target Level	3.00	2.75	2.00	-	-	-	-	-	-	-	-
				Attainment Level	2.06	2.06	2.00	-	-	-	-	-	-	-	-
MEC502	Mechanical Measurements and Control	A	Manojkumar Yadav	Target Level	1.83	2.50	3.00	-	-	-	-	-	-	-	-
				Attainment Level	1.30	1.30	1.30	-	-	-	-	-	-	-	-
MEC503	Production Process-III	A	Tushar Mestry	Target Level	2.16	1.83	3.00	1.00	-	2.00	1.00	1.00	1.00	1.00	1.75
															1.33





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Attainment Level	1.30	1.30	1.27	1.23	-	1.38	1.30	1.30	1.30	1.30	1.30	1.30
MEC504	Theory of Machines- II	A	Shreyesh Kutty	Target Level	3.00	3.00	2.00	-	-	-	-	-	-	-	-	-
				Attainment Level	0.47	0.47	0.47	-	-	-	-	-	-	-	-	-
MEC505	Heat Transfer	A	Henisha Raut	Target Level	3.00	3.00	1.50	-	-	-	-	-	-	-	-	-
				Attainment Level	1.37	1.37	1.35	-	-	-	-	-	-	-	-	-
MEL501	Business Communication and Ethics	A	Prashant Pawar	Target Level	-	-	-	-	3.00	3.00	-	-	3.00	3.00	3.00	-
				Attainment Level	-	-	-	-	2.76	2.70	-	-	2.40	2.24	2.51	-
MEC501	I C Engines	B	Mayur Jagtap	Target Level	1.83	3.00	-	1.00	1.00	-	2.00	-	-	-	-	1.00
				Attainment Level	1.27	1.37	-	1.26	1.44	-	1.47	-	-	-	-	-
MEC502	Mechanical Measurements and Control	B	Manojkumar Yadav	Target Level	1.83	2.50	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.13	2.13	2.13	-	-	-	-	-	-	-	-	-
MEC503	Production Process-III	B	Tushar Mestry	Target Level	2.17	1.83	3.00	1.00	-	2.00	-	-	-	-	-	-
				Attainment Level	1.38	1.31	1.26	1.38	-	1.26	-	-	-	-	-	-
MEC504	Theory of Machines- II	B	Shreyesh Kutty	Target Level	3.00	3.00	2.00	-	-	-	-	-	-	-	-	-
				Attainment Level	0.47	0.47	0.47	-	-	-	-	-	-	-	-	-
MEC505	Heat Transfer	B	Henisha Raut	Target Level	3.00	3.00	1.50	-	-	-	-	-	-	-	-	-
				Attainment Level	1.33	1.35	1.31	-	-	-	-	-	-	-	-	-
MEL501	Business Communication and Ethics	B	Prashant Pawar	Target Level	-	-	-	-	3.00	3.00	-	-	3.00	3.00	3.00	-
				Attainment Level	-	-	-	-	2.76	2.70	-	-	2.40	2.24	2.51	-
Semester VI																
MEC601	Metrology and Quality Engineering	A	Manojkumar Yadav	Target Level	2.67	2.17	1.34	-	-	-	-	-	-	-	-	-
				Attainment Level	2.85	2.85	2.85	-	-	-	-	-	-	-	-	-
MEC602	Machine Design I	A	Varghese Koshy	Target Level	3.00	2.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	0.91	0.91	0.80	-	-	-	-	-	-	-	-	-
MEC603	Mechanical Vibrations	A	Omkar Joshi	Target Level	3.00	2.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	1.31	1.31	1.31	-	-	-	-	-	-	-	-	-
MEC604	Thermal and Fluid Power Engineering	A	Suneet Mehta	Target Level	3.00	2.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	0.37	0.38	-	-	-	-	-	-	-	-	-	-
MEC605	Mechatronics	A	Tushar Mestry	Target Level	3.00	2.75	1.00	-	-	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Attainment Level	1.28	1.40	1.35	-	-	-	-	-	-	-	-	-
MEC606	Finite Element Analysis	A	Priyank Vartak	Target Level	2.33	2.33	-	-	2.00	-	-	-	-	-	-	-
				Attainment Level	0.44	0.42	-	-	0.44	-	-	-	-	-	-	-
MEC601	Metrology and Quality Engineering	B	Manojkumar Yadav	Target Level	2.67	2.17	1.34	-	-	-	-	-	-	-	-	-
				Attainment Level	2.85	2.85	2.85	-	-	-	-	-	-	-	-	-
MEC602	Machine Design I	B	Varghese Koshy	Target Level	3.00	2.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.84	2.68	1.60	-	-	-	-	-	-	-	-	-
MEC603	Mechanical Vibrations	B	Pramod Vishwakarma	Target Level	3.00	2.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	1.25	1.25	1.25	-	-	-	-	-	-	-	-	-
MEC604	Thermal and Fluid Power Engineering	B	Henisha Raut	Target Level	3.00	2.00	-	-	-	-	-	-	-	-	-	-
				Attainment Level	1.34	1.38	-	-	-	-	-	-	-	-	-	-
MEC605	Mechatronics	B	Tushar Mestry	Target Level	3.00	2.75	1.00	-	-	-	-	-	-	-	-	-
				Attainment Level	1.25	1.38	1.25	-	-	-	-	-	-	-	-	-
MEC606	Finite Element Analysis	B	Shreyesh Kutty	Target Level	2.33	2.33	-	-	2.00	-	-	-	-	-	-	-
				Attainment Level	0.51	0.50	-	-	0.56	-	-	-	-	-	-	-
Semester VII																
MEC701	Machine Design -II	A	Varghese Koshy	Target Level	3.00	2.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	0.95	0.95	0.95	-	-	-	-	-	-	-	-	-
MEC702	CAD/CAM/CAE	A	Suneet Mehta	Target Level	3.00	3.00	3.00	-	2.00	-	-	-	-	-	-	-
				Attainment Level	2.72	2.75	2.59	-	2.75	-	-	-	-	-	-	-
MEC703	Mechanical Utility Systems	A	Rajkumar Devkar	Target Level	2.33	2.25	2.00	2.50	-	-	2.00	-	-	-	-	-
				Attainment Level	2.06	2.08	2.08	2.04	-	-	2.04	-	-	-	-	-
MEC704	Production Planning and Control	A	Chinmay Pingulkar	Target Level	3.00	3.00	-	2.00	3.00	-	-	-	-	-	-	-
				Attainment Level	2.04	2.04	-	2.04	2.06	-	-	-	-	-	-	-
MEE7019	Operations Research	A	Swapnil Raut	Target Level	3.00	3.00	-	2.00	3.00	-	-	-	-	-	-	-
				Attainment Level	1.20	1.20	-	1.20	1.32	-	-	-	-	-	-	-
MEC701	Machine Design -II	B	Varghese Koshy	Target Level	3.00	2.00	3.00	-	-	-	-	-	-	-	-	-
				Attainment Level	1.78	1.78	1.78	-	-	-	-	-	-	-	-	-
MEC702	CAD/CAM/CAE	B	Pratik Raut	Target Level	3.00	3.00	3.00	-	2.00	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				Attainment Level	2.15	2.14	2.17	-	2.17	-	-	-	-	-	-
MEC703	Mechanical Utility Systems	B	Shweta Patel	Target Level	2.33	2.25	2.00	2.50	-	-	2.00	-	-	-	-
				Attainment Level	0.48	0.44	0.44	0.51	-	-	0.44	-	-	-	-
MEC704	Production Planning and Control	B	Chinmay Pingulkar	Target Level	3.00	3.00	-	2.00	3.00	-	-	-	-	-	-
				Attainment Level	2.06	2.04	-	2.04	2.06	-	-	-	-	-	-
MEE7019	Operations Research	B	Swapnil Raut	Target Level	3.00	3.00	-	2.00	3.00	-	-	-	-	-	-
				Attainment Level	1.98	1.98	-	1.98	2.07	-	-	-	-	-	-
MEP701	Project I	A & B	Chinmay Pingulkar	Target Level	3.00	3.00	3.00	3.00	3.00	2.00	2.00	3.00	3.00	3.00	3.00
				Attainment Level	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Semester VIII															
MEC801	Design of Mechanical Systems	A	Rajkumar Devkar	Target Level	3.00	2.80	3.00	-	-	-	-	-	-	-	1.00
				Attainment Level	2.08	2.08	2.08	-	-	-	-	-	-	-	2.08
MEC802	Industrial Engineering and Management	A	Chinmay Pingulkar	Target Level	3.00	3.00	-	2.00	3.00	-	-	-	-	-	-
				Attainment Level	2.04	2.04	-	2.04	2.01	-	-	-	-	-	-
MEC803	Refrigeration and Air Conditioning	A	Shweta Patel	Target Level	3.00	-	2.00	-	-	-	-	-	-	-	-
				Attainment Level	2.83	-	2.97	-	-	-	-	-	-	-	-
MEE8022	Renewable Energy Sources	A	Tejas Chaudhari	Target Level	3.00	3.00	2.00	-	-	-	-	-	-	1.00	-
				Attainment Level	2.95	2.98	2.98	-	-	-	-	-	-	2.95	-
MEC801	Design of Mechanical Systems	B	Aniket Deshmukh	Target Level	3.00	2.80	3.00	-	-	-	-	-	-	-	1.00
				Attainment Level	2.62	2.69	2.68	-	-	-	-	-	-	-	2.67
MEC802	Industrial Engineering and Management	B	Chinmay Pingulkar	Target Level	3.00	3.00	-	2.00	3.00	-	-	-	-	-	-
				Attainment Level	2.04	2.04	-	2.04	1.96	-	-	-	-	-	-
MEC803	Refrigeration and Air Conditioning	B	Shweta Patel	Target Level	3.00	-	2.00	-	-	-	-	-	-	-	-
				Attainment Level	2.83	-	2.97	-	-	-	-	-	-	-	-
MEE8022	Renewable Energy Sources	B	Vinit Raut	Target Level	3.00	3.00	2.00	-	-	-	-	-	-	1.00	-
				Attainment Level	2.98	2.99	2.98	-	-	-	-	-	-	2.98	-
MEP802	Project II	A & B	Chinmay Pingulkar	Target Level	3.00	3.00	3.00	3.00	3.00	2.00	2.00	3.00	3.00	3.00	3.00
				Attainment Level	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

M.E. Manufacturing Systems Engineering

Course Code	Subject	Div	Faculty Name	PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
Semester I																
MSEC 103	Quality Engineering	-	Niyati Raut	Target Level	3.00	2.00	-	2.00	1.00	-	-	-	-	-	-	-
				Attainment Level	2.71	2.65	-	2.65	2.65	-	-	-	-	-	-	-
MSEL102	Quality Engineering Lab	-	Niyati Raut	Target Level	3.00	-	-	2.00	3.00	-	-	-	-	-	-	-
				Attainment Level	-	-	-	-	-	-	-	-	-	-	-	-
MSEDLO 1012	World Class Manufacturing	-	Dr. Arunkumar	Target Level	3.00	-	-	3.00	-	3.00	-	-	-	-	-	-
				Attainment Level	2.98	-	-	2.98	-	2.98	-	-	-	-	-	-
MSEC 101	Product Design & Development	-	Niyati Raut	Target Level	3.00	2.00	-	1.50	1.00	2.00	-	2.00	-	-	-	-
				Attainment Level	2.90	2.95	-	2.95	2.99	2.98	-	2.98	-	-	-	-
ILO 1014	Design Of Experiment	-	Dr. Arunkumar	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	2.98	2.98	2.98	2.98	-	-	-	-	-	-	-	-
MSEC102	Computer Integrated Manufacturing	-	Dr. Arunkumar	Target Level	3.00	-	-	3.00	3.00	-	-	-	-	-	-	-
				Attainment Level	2.99	-	-	2.99	2.99	-	-	-	-	-	-	-
Semester II																
MSEC202	Industrial Automation	-	Niyati Raut	Target Level	3.00	2.00	2.00	-	-	-	-	-	-	-	-	-
				Attainment Level	2.84	2.77	2.77	-	-	-	-	-	-	-	-	-
ILO2026	Research Methodology	-	Niyati Raut	Target Level	3.00	3.00	-	2.50	-	-	-	-	-	-	-	-
				Attainment Level	2.97	2.97	-	2.97	-	-	-	-	-	-	-	-
MSEC203	Advance Quntitative Technique	-	Dr. Arunkumar	Target Level	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-
				Attainment Level	1.32	1.32	1.32	1.32	-	-	-	-	-	-	-	-
MSEC201	Sustainable Manufacturing	-	Dr. Arunkumar	Target Level	3.00	-	3.00	-	-	3.00	3.00	3.00	-	-	-	-
				Attainment Level	2.87	-	2.87	-	-	2.87	2.87	2.87	-	-	-	-
MSEDLO 2021	Logistic & Supply Chain Management	-	Dr. Arunkumar	Target Level	3.00	3.00	-	-	3.00	-	-	-	-	-	-	3.00
				Attainment Level	2.97	2.97	-	-	2.97	-	-	-	-	-	-	-





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

CO Attainment

Humanities and Applied Sciences

Course Code	Subject	Div	Faculty Name	CO	Target Level	Attainment Level
FEC101	Applied Mathematics-I	-	Shiksha Singh	CO 1	3.00	0.47
				CO 2	2.00	0.45
				CO 3	2.00	0.42
				CO 4	2.00	0.50
				CO 5	2.00	0.50
				CO 6	2.00	0.46
FEC102	Applied Physics-I	-	Dr.Ajazul Haque/Deepak Dubey	CO 1	3.00	1.53
				CO 2	2.00	1.69
				CO 3	2.50	1.58
				CO 4	3.00	1.69
FEC103	Applied Chemistry-I	-	Manju Mishra	CO 1	3.00	2.44
				CO 2	3.00	2.46
				CO 3	3.00	2.45
				CO 4	2.83	2.44
				CO 5	2.58	2.44
FEC104	Engineering Mechanics	-	Sushil Mishra	CO 1	2.33	2.77
				CO 2	2.66	2.89
				CO 3	2.66	2.87
				CO 4	2.66	2.19
				CO 5	2.66	2.11
				CO 6	2.66	2.53
FEC105	Basic Electrical Engineering	-	Pratik Parsewar	CO 1	3.00	1.40
				CO 2	3.00	1.40





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	3.00	1.40
				CO 4	3.00	1.36
				CO 5	3.00	1.40
				CO 6	3.00	1.36
FEC106	Environmental Studies	-	Reshma Chaudhari	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00
FEL101	Basic Workshop practice-I	-	Sachin Patil	CO 1	2.00	0.59
				CO 2	2.00	0.59
				CO 3	2.00	0.59
				CO 4	2.00	0.59
				CO 5	2.00	0.58
				CO 6	2.00	0.58
Semester II						
FEC201	Applied Maths-II	-	Dr.Jayesh Jain/Bhagyashree Netke	CO 1	3.00	0.56
				CO 2	2.00	0.55
				CO 3	2.50	0.56
				CO 4	3.00	0.55
				CO 5	3.00	0.56
				CO 6	3.00	0.51
FEC202	Applied Physics-II	-	Dr.Ajazul Haque/Deepak Dubey	CO 1	3.00	2.43
				CO 2	2.00	2.50
				CO 3	2.50	2.54
				CO 4	3.00	2.65
FEC203	Applied Chemistry-II	-	Manju Mishra	CO 1	3.00	2.31
				CO 2	3.00	2.29





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	3.00	2.28
				CO 4	2.77	2.31
				CO 5	2.70	2.31
FEC204	Engineering Drawing	-	Sushil Mishra	CO 1	3.00	2.76
				CO 2	3.00	2.15
				CO 3	3.00	2.88
				CO 4	3.00	2.88
				CO 5	3.00	2.89
				CO 6	3.00	2.09
FEC205	Structural programming and analysis	-	Reshma Chaudhari	CO 1	3.00	1.20
				CO 2	3.00	1.00
				CO 3	3.00	1.20
				CO 4	3.00	1.20
				CO 5	3.00	1.00
				CO 6	3.00	1.00
FEC206	Communication Skill	-	Trupti patil/Prashant Pawar	CO 1	3.00	2.69
				CO 2	3.00	2.70
				CO 3	3.00	2.70
				CO 4	3.00	2.80
				CO 5	3.00	2.75
				CO 6	3.00	2.77
FEL201	Basic Workshop-II	-	Sachin Patil	CO 1	2.00	0.57
				CO 2	2.00	0.57
				CO 3	2.00	0.58
				CO 4	2.00	0.57
				CO 5	2.00	0.58
				CO 6	2.00	0.58





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Civil Engineering

Course Code	Subject	Div	Faculty Name	CO	Target Level	Attainment Level
Semester III						
CEC301	Applied Mathematics III	A	Jayesh jain	CO 1	2.57	2.90
				CO 2	2.57	3.00
				CO 3	2.85	2.80
				CO 4	2.80	3.00
				CO 5	2.57	2.40
				CO 6	2.57	2.40
CEC302	Surveying – I	A	Abhijit Wasave	CO 1	2.25	2.60
				CO 2	2.40	2.90
				CO 3	2.50	2.90
				CO 4	2.40	2.86
				CO 5	2.75	3.00
				CO 6	2.20	2.80
CEC303	Strength of Materials	A	Akshay Mistry	CO 1	2.33	2.40
				CO 2	2.00	3.00
				CO 3	2.50	2.86
				CO 4	2.42	2.93
				CO 5	2.20	3.00
				CO 6	2.25	2.86
CEC304	Engineering Geology	A	Prachi Bari	CO 1	2.25	2.40
				CO 2	2.33	2.40
				CO 3	2.40	3.00
				CO 4	2.60	3.00
				CO 5	2.60	3.00
				CO 6	2.60	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

CEC305	Fluid Mechanics – I	A	Mayur Patel	CO 1	2.60	3.00
				CO 2	2.60	3.00
				CO 3	2.60	3.00
				CO 4	2.57	3.00
				CO 5	2.57	3.00
				CO 6	2.57	3.00
CEC301	Applied Mathematics III	A	Prachi Bari	CO 1	2.57	3.00
				CO 2	2.57	3.00
				CO 3	2.57	3.00
				CO 4	3.00	2.00
				CO 5	3.00	2.00
				CO 6	3.00	2.00
CEC302	Surveying – I	B	Prachi Bari	CO 1	3.00	2.00
				CO 2	3.00	2.00
				CO 3	3.00	2.00
				CO 4	2.80	3.00
				CO 5	2.80	3.00
				CO 6	2.83	3.00
CEC303	Strength of Materials	B	Prerana patil	CO 1	2.80	3.00
				CO 2	2.80	3.00
				CO 3	2.80	3.00
				CO 4	2.80	3.00
				CO 5	2.83	3.00
				CO 6	2.00	3.00
CEC304	Engineering Geology	B	Ramya Raju	CO 1	2.00	3.00
				CO 2	2.00	3.00
				CO 3	2.00	3.00
				CO 4	2.75	3.00
				CO 5	2.75	2.93





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 6	2.75	2.90
CEC305	Fluid Mechanics – I	B	Akshay Naik	CO 1	2.66	2.90
				CO 2	2.75	3.00
				CO 3	2.75	2.90
				CO 4	2.70	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00
Semester IV						
CEC401	Applied Mathematics – IV	A	Jayesh jain	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	2.40
				CO 4	2.75	2.90
				CO 5	2.60	2.93
				CO 6	2.50	3.00
CEC402	Surveying – II	A	Meena Bhagat	CO 1	2.75	3.00
				CO 2	2.60	3.00
				CO 3	2.60	3.00
				CO 4	2.30	2.40
				CO 5	2.80	3.00
				CO 6	2.75	2.80
CEC403	Structural Analysis – I	A	Abhijit Wasave	CO 1	2.75	2.80
				CO 2	2.80	2.40
				CO 3	2.80	2.80
				CO 4	2.75	2.95
				CO 5	2.80	2.90
				CO 6	2.75	2.90
CEC404	Building Design and Drawing –	A	Jimit Chotai	CO 1	2.75	2.90
				CO 2	2.75	2.90
				CO 3	2.80	2.90





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	2.57	2.90
				CO 5	2.57	3.00
				CO 6	2.85	2.80
CEC405	Building Materials & Construction Technology	A	Vishal Urade	CO 1	2.80	3.00
				CO 2	2.57	2.40
				CO 3	2.57	2.40
				CO 4	2.25	2.60
				CO 5	2.40	2.90
				CO 6	2.50	2.90
CEC406	Fluid Mechanics – II	A	Ramya Raju	CO 1	2.40	2.86
				CO 2	2.75	3.00
				CO 3	2.20	2.80
				CO 4	2.33	2.40
				CO 5	2.75	3.00
				CO 6	2.75	2.93
CEC401	Applied Mathematics – IV	B	Jayesh jain	CO 1	2.75	2.90
				CO 2	2.66	2.90
				CO 3	2.75	3.00
				CO 4	2.75	2.90
				CO 5	2.70	3.00
				CO 6	3.00	3.00
CEC402	Surveying – II	B	Prachi Bari	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	2.40
				CO 5	2.75	2.90
				CO 6	2.60	2.93
CEC403	Structural Analysis – I	B	Pratibah Patil	CO 1	2.50	3.00
				CO 2	2.75	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	2.60	3.00
				CO 4	2.60	3.00
				CO 5	2.30	2.40
				CO 6	2.80	3.00
CEC404	Building Design and Drawing –	B	Jimit chotai	CO 1	2.75	2.80
				CO 2	2.75	2.80
				CO 3	2.80	2.40
				CO 4	2.80	2.80
				CO 5	2.75	2.80
CEC405	Building Materials & Construction Technology	B	Ghufran Khan	CO 6	2.50	2.90
				CO 1	2.50	2.93
				CO 2	2.50	2.90
				CO 3	2.60	2.90
				CO 4	2.50	2.80
CEC406	Fluid Mechanics – II	B	Meena Bhagat	CO 5	3.00	3.00
				CO 6	3.00	3.00
				CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
Semester V						
CEC501	Structural Analysis – II	A	Pratibha patil	CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	2.75	3.00
				CO 1	3.00	3.00
				CO 2	3.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

CEC502	Geotechnical Engineering – I	A	Prashant Gondane	CO 1	2.75	2.93
				CO 2	2.75	2.90
				CO 3	2.66	2.90
				CO 4	2.75	3.00
				CO 5	2.75	2.90
				CO 6	2.70	3.00
CEC503	Applied Hydraulics I	A	Asmita Bhalke	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	2.40
				CO 6	2.75	2.90
CEC504	Building design and drawing	A	Jimit Chotai	CO 1	2.60	2.93
				CO 2	2.50	3.00
				CO 3	2.75	3.00
				CO 4	2.60	3.00
				CO 5	2.60	3.00
				CO 6	2.30	2.40
CEC505	Transportation Engineering – I	A	Gufran Khan	CO 1	2.80	3.00
				CO 2	2.75	2.80
				CO 3	2.75	2.80
				CO 4	2.80	2.40
				CO 5	2.80	2.80
				CO 6	2.75	2.80
CEC501	Structural Analysis – II	B	Abhijit Wasave	CO 1	2.50	2.90
				CO 2	2.50	2.93
				CO 3	2.50	2.90
				CO 4	2.60	2.90
				CO 5	2.50	2.80





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 6	3.00	3.00
CEC502	Geotechnical Engineering – I	B	Ashish Shetty	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00
CEC503	Applied Hydraulics I	B	Ashish shetty	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00
CEC504	Building design and drawing	B	Yadnesh Patil	CO 1	2.75	3.00
				CO 2	2.80	3.00
				CO 3	2.80	3.00
				CO 4	2.80	3.00
				CO 5	2.80	3.00
				CO 6	2.80	3.00
CEC505	Transportation Engineering – I	B	Vishal Urade	CO 1	2.50	3.00
				CO 2	2.50	3.00
				CO 3	2.50	3.00
				CO 4	2.50	3.00
				CO 5	2.50	3.00
				CO 6	2.50	3.00
Semester VI						
CEC601	Design and Drawing of Steel Structures	A	Prerana Patil	CO 1	2.64	3.00
				CO 2	2.64	3.00
				CO 3	3.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00
CEC602	Theory of reinforced concrete structures	A	Akshay Mistry	CO 1	2.85	3.00
				CO 2	2.60	3.00
				CO 3	2.50	3.00
				CO 4	2.80	3.00
				CO 5	2.60	3.00
				CO 6	2.70	3.00
CEC603	Geotechnical Engineering. – II	A	Ashish shetty	CO 1	2.00	3.00
				CO 2	2.00	3.00
				CO 3	2.00	3.00
				CO 4	2.00	3.00
				CO 5	2.75	3.00
				CO 6	2.80	3.00
CEC604	Environmental Engineering. – I	A	Monica More	CO 1	2.80	3.00
				CO 2	2.80	3.00
				CO 3	2.80	3.00
				CO 4	2.80	3.00
				CO 5	2.50	3.00
				CO 6	2.50	3.00
CEC605	Transportation Engg II	A	Vishal urade	CO 1	2.50	3.00
				CO 2	2.50	3.00
				CO 3	2.50	3.00
				CO 4	2.50	3.00
				CO 5	2.64	3.00
				CO 6	2.64	3.00
CEC606	Applied Hydraulics II	A	Asmita mhatre	CO 1	3.00	3.00
				CO 2	3.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	2.85	3.00
				CO 6	2.60	3.00
CEC601	Design and Drawing of Steel Structures	B	Prerana patil	CO 1	2.50	3.00
				CO 2	2.80	3.00
				CO 3	2.60	3.00
				CO 4	2.70	3.00
				CO 5	2.00	3.00
				CO 6	2.00	3.00
CEC602	Theory of reinforced concrete structures	B	Abhijit Wasave	CO 1	2.00	3.00
				CO 2	2.00	3.00
				CO 3	2.75	3.00
				CO 4	2.80	3.00
				CO 5	2.80	3.00
				CO 6	2.80	3.00
CEC603	Geotechnical Engineering. – II	B	Arathy Menon	CO 1	2.80	3.00
				CO 2	2.80	3.00
				CO 3	2.50	3.00
				CO 4	2.50	3.00
				CO 5	2.50	3.00
				CO 0	2.50	3.00
CEC604	Environmental Engineering. – I	B	Purva Awari	CO 1	2.50	3.00
				CO 2	2.50	3.00
				CO 3	2.64	3.00
				CO 4	2.64	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00
CEC605	Transportation Engg II	B	Yadnesh Patil	CO 1	3.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 2	3.00	3.00
				CO 3	2.85	3.00
				CO 4	2.60	3.00
				CO 5	2.50	3.00
				CO 6	2.80	3.00
CEC606	Applied Hydraulics II	B	Mayur patel	CO 1	2.60	3.00
				CO 2	2.70	3.00
				CO 3	2.00	3.00
				CO 4	2.00	3.00
				CO 5	2.00	3.00
				CO 6	2.00	3.00
Semester VII						
CEC701	Quantity Survey Estimation and Valuation	A	Arathy Menon	CO 1	2.75	3.00
				CO 2	2.80	3.00
				CO 3	2.80	3.00
				CO 4	2.80	3.00
				CO 5	2.80	3.00
				CO 6	2.80	3.00
CEC702	Limit state method of rc Structures	A	Sagar Sundaran	CO 1	2.50	3.00
				CO 2	2.50	3.00
				CO 3	2.50	3.00
				CO 4	2.50	3.00
				CO 5	2.50	3.00
				CO 6	2.50	3.00
CEC703	Irrigation Engineering	A	Asmita Bhalke	CO 1	2.64	3.00
				CO 2	2.64	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 6	3.00	3.00
CEDLO7 042	Environmental engg II	A	Monica more	CO 1	2.85	3.00
				CO 2	2.60	3.00
				CO 3	2.50	3.00
				CO 4	2.80	3.00
				CO 5	2.60	3.00
				CO 6	2.70	3.00
ILO7017	Solid Waste management Measures	A	Purva Awari	CO 1	2.00	3.00
				CO 2	2.00	3.00
				CO 3	2.00	3.00
				CO 4	2.00	3.00
				CO 5	2.75	3.00
				CO 6	2.80	3.00
CEC701	Quantity Survey Estimation and Valuation	B	Ramya Raju	CO 1	2.80	3.00
				CO 2	2.80	3.00
				CO 3	2.80	3.00
				CO 4	2.80	3.00
				CO 5	2.50	3.00
				CO 6	2.50	3.00
CEC702	Limit state method of rc Structures	B	Prerana Patil	CO 1	2.50	3.00
				CO 2	2.50	3.00
				CO 3	2.50	3.00
				CO 4	2.50	3.00
				CO 5	2.64	3.00
				CO 6	2.64	3.00
CEC703	Irrigation Engineering	B	Lissy Jose	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 5	2.85	3.00
				CO 0	2.60	3.00
CEC704	Environmental engg II	B	Purva Awari	CO 1	2.50	3.00
				CO 2	2.80	3.00
				CO 3	2.60	3.00
				CO 4	2.70	3.00
				CO 5	2.00	3.00
				CO 6	2.00	3.00
ILO7017	Solid Waste management Measures	B	Prashant Gondane	CO 1	2.00	3.00
				CO 2	2.00	3.00
				CO 3	2.75	3.00
				CO 4	2.80	3.00
				CO 5	2.80	3.00
				CO 6	2.80	3.00
CEP705	Project – Part I	A & B	Prerana Patil	CO 1	2.80	3.00
				CO 2	2.80	3.00
				CO 3	2.50	3.00
				CO 4	2.50	3.00
				CO 5	2.50	3.00
				CO 6	2.50	3.00
Semester VIII						
CEC801	Design and Drawing of Reinforced Concrete Structures	A	Sagar Sundaran	CO 1	2.50	3.00
				CO 2	2.50	3.00
				CO 3	2.64	3.00
				CO 4	2.64	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00
CEC802	Construction Management	A	Lissy Jose	CO 1	3.00	3.00
				CO 2	3.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	2.85	3.00
				CO 4	2.60	3.00
				CO 5	2.50	3.00
				CO 6	2.80	3.00
CEC803	Industrial Waste Treatment	A	Akshay naik	CO 1	2.60	3.00
				CO 2	2.70	3.00
				CO 3	2.00	3.00
				CO 4	2.00	3.00
				CO 5	2.00	3.00
CEDLO8 032	Construction Engg	A	Prashant gondane	CO 6	2.00	3.00
				CO 1	2.75	3.00
				CO 2	2.80	3.00
				CO 3	2.80	3.00
				CO 4	2.80	3.00
CEP804	Project – Part II	A	Prerana Patil	CO 5	2.80	3.00
				CO 6	2.80	3.00
				CO 1	2.50	3.00
				CO 2	2.50	3.00
				CO 3	2.50	3.00
CEC801	Design and Drawing of Reinforced Concrete Structures	B	Akshay Mistry	CO 4	2.50	3.00
				CO 5	2.50	3.00
				CO 6	2.50	3.00
				CO 1	2.64	3.00
				CO 2	2.64	3.00
CEC802	Construction Management	B	Monica More	CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00
				CO 1	2.85	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 2	2.60	3.00
				CO 3	2.50	3.00
				CO 4	2.80	3.00
				CO 5	2.60	3.00
				CO 6	2.70	3.00
CEDLO8 032	Industrial Waste Treatment	B	Purva Wari	CO 1	2.00	3.00
				CO 2	2.00	3.00
				CO 3	2.00	3.00
				CO 4	2.00	3.00
				CO 5	2.75	3.00
CEDLO8 032	Construction engg	B	Ghufran Khan	CO 6	2.80	3.00
				CO 1	2.80	3.00
				CO 2	2.80	3.00
				CO 3	2.80	3.00
				CO 4	2.80	3.00
CEP804	Project – Part II	A& B	Akshay naik	CO 5	2.50	3.00
				CO 6	2.50	3.00
				CO 1	2.50	3.00
				CO 2	2.50	3.00
				CO 3	2.50	3.00
				CO 4	2.50	3.00
				CO 5	2.64	3.00
				CO 6	2.64	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Computer Engineering

Course Code	Subject	Div	Faculty Name	CO	Target Level	Attainment Level
Semester III						
CSC301	Applied Mathematics-III	-	Yogendra Vishwakarma	CO 1	3.00	1.00
				CO 2	3.00	1.00
				CO 3	3.00	1.00
				CO 4	3.00	1.20
				CO 5	3.00	1.40
				CO 6	3.00	1.00
CSC302	Digital Logic Design and Analysis	-	Vinit Raut	CO 1	3.00	0.92
				CO 2	3.00	0.52
				CO 3	2.00	1.08
				CO 4	2.00	0.60
				CO 5	2.00	0.92
CSC303	Discrete Mathematics	-	Pratiksha Deshmukh / Akshata Raut	CO 1	3.00	2.20
				CO 2	3.00	2.20
				CO 3	3.00	2.00
				CO 4	3.00	2.00
				CO 5	3.00	2.20
				CO 6	3.00	1.80
CSC304	Electronic Circuits and Communication Fundamentals	-	Saniket Kudoo	CO 1	3.00	0.60
				CO 2	3.00	0.60
				CO 3	3.00	0.60
				CO 4	2.00	0.60
CSC305	Data Structures	-	Bhushan Talekar	CO 1	3.00	0.60
				CO 2	2.00	0.40
				CO 3	2.00	0.60





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	3.00	0.60
CSL301	Digital System Lab	-	Vinit Raut	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
CSL302	Basic Electronics Lab	-	Saniket Kudoo	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
CSL303	Data structure Lab	-	Bhushan Talekar	CO 1	3.00	3.00
				CO 2	2.00	2.80
				CO 3	2.00	3.00
				CO 4	3.00	3.00
CSL304	OOPM(Java) Lab	-	Dnyaneshwar Bhabad	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
Semester IV						
CSC401	Applied Mathematics-IV	-	Yogendra Vishwakarma	CO 1	3.00	1.00
				CO 2	2.00	1.20
				CO 3	2.00	1.20
				CO 4	2.00	1.20
				CO 5	3.00	1.20
CSC402	Analysis of Algorithm	-	Pratiksha Deshmukh	CO 6	2.00	1.20
				CO 1	3.00	0.40
				CO 2	3.00	0.60
				CO 3	3.00	0.60





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	3.00	0.40
				CO 5	3.00	0.40
				CO 6	2.00	0.40
CSC403	Computer Organization and Architecture	-	Vinit Raut	CO 1	2.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
CSC404	Computer Graphics	-	Akshata Raut	CO 1	2.00	0.60
				CO 2	3.00	0.60
				CO 3	3.00	0.60
				CO 4	3.00	0.60
				CO 5	2.00	0.60
CSC405	Operating System	-	Janhavi Sangoi	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	3.00	2.80
CSL401	Analysis of Algorithms Lab	-	Pratiksha Deshmukh	CO 1	3.00	2.40
				CO 2	3.00	2.60
				CO 3	3.00	2.40
				CO 4	3.00	2.40
				CO 5	3.00	2.40
				CO 6	2.00	2.60
CSL402	Computer Graphics Lab	-	Akshata Raut	CO 1	3.00	2.40
				CO 2	3.00	2.40
				CO 3	3.00	2.60
				CO 4	2.00	2.40
				CO 5	3.00	2.60





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 6	2.00	2.40
CSL403	Processor Architecture Lab	-	Vinit Raut	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
CSL404	Operating System Lab	-	Janhavi Sangoi	CO 1	3.00	3.00
				CO 2	3.00	2.80
				CO 3	3.00	2.80
				CO 4	3.00	3.00
				CO 5	3.00	3.00
CSL405	Open Source Tech Lab	-	Dnyaneshwar Bhabad	CO 6	3.00	3.00
				CO 1	3.00	2.80
				CO 2	3.00	2.80
				CO 3	3.00	2.80
				CO 4	3.00	2.80
				CO 5	3.00	2.80
				CO 6	3.00	2.80
Semester V						
CPC501	Microprocessor	-	Umesh Mohite	CO 1	3	2
				CO 2	3	2
				CO 3	3	2.2
				CO 4	3	2.2
				CO 5	3	2
CPC502	Operating System	-	Sunita Naik	CO 6	3	2
				CO 1	3	2.6
				CO 2	3	2.6
				CO 3	3	2.6
				CO 4	3	2.6
				CO 5	3	2.6





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 6	3	2.6
CPC503	Structured and Object Oriented Analysis and Design	-	Pallavi Vartak	CO 1	3	3
				CO 2	3	3
				CO 3	3	3
				CO 4	3	3
CPC504	Computer Networks	-	Pratiksha Deshmukh	CO 1	3	2.8
				CO 2	3	2.8
				CO 3	3	2.8
				CO 4	3	2.8
				CO 5	2	2
CPL501	Web Technologies Laboratory	-	Saniket Kudoo	CO 6	2	2
				CO 1	3	3
				CO 2	3	2.8
				CO 3	3	2.8
				CO 4	3	2.8
CPL502	Business Comm. & Ethics	-	Swaranjali Vidyasagar	CO 5	2	3
				CO 6	3	2.8
				CO 1	3	2.91
				CO 2	3	2.89
				CO 3	3	2.88
				CO 4	3	2.9
				CO 5	3	2.89
				CO 6	3	2.89
Semester VI						
CPC601	System Programming and Compiler Construction	-	Bhushan Talekar	CO 1	3	2.68
				CO 2	3	2.68
				CO 3	3	2.68
				CO 4	3	2.84
				CO 5	3	2.68





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 6	3	2.68
CPC602	Software Engineering	-	Pallavi Vartak	CO 1	3	3
				CO 2	3	3
				CO 3	3	3
				CO 4	3	3
CPC603	Distributed Databases	-	Dnyaneshwar Bhabad	CO 1	3	3
				CO 2	3	3
				CO 3	2	3
				CO 4	3	3
CPC604	Mobile Communication and Computing	-	Reshma Chaudhari	CO 1	3	1
				CO 2	2	1
				CO 3	3	1.2
				CO 4	3	1
CPE6012	Project Management	-	Umesh Mohite	CO 1	2	3
				CO 2	3	2
				CO 3	3	3
				CO 4	2	3
CPL601	Network Programming Laboratory	-	Sunita Naik / Saniket Kudoo	CO 1	3	2.2
				CO 2	3	2.2
				CO 3	3	2.2
				CO 4	3	2.2
				CO 5	3	2.2
				CO 6	3	2.2
Semester VII						
CPC701	Digital Signal Processing	-	Reshma Chaudhari	CO 1	3	1.8
				CO 2	3	1.8
				CO 3	3	2
				CO 4	3	2
CPC702	Cryptography and System Security	-	Ashwini Save	CO 1	3	2





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 2	3	2
				CO 3	3	2
				CO 4	3	2
				CO 5	3	2
CPC703	Artificial Intelligence	-	Dr. Tatwadarshi P N	CO 1	3	2.8
				CO 2	3	2.6
				CO 3	3	2.8
				CO 4	3	2.6
CPE7021	Advance Algorithms	-	Janhavi Sangoi	CO 1	3	2
				CO 2	2	2
				CO 3	2	1.2
				CO 4	3	2
CPP701	Project I	-	Janhavi Sangoi	CO 1	3	2.6
				CO 2	3	2.6
				CO 3	3	2.6
				CO 4	3	2.6
				CO 5	2	2.6
CPL701	Network Threats and Attacks Laboratory	-	Nishigandha K. / Akshata Raut/ Pratiksha Deshmukh	CO 1	3	3
				CO 2	3	3
				CO 3	3	3
				CO 4	2	3
				CO 5	2	3
Semester VIII						
CPC801	Data Warehouse and Mining	-	Ashwini Save	CO 1	3	3
				CO 2	3	3
				CO 3	3	2.8
				CO 4	3	3
CPC802	Human Machine Interaction	-	Saniket Kudoo	CO 1	3	3
				CO 2	2	3





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	3	3
				CO 4	3	3
CPC803	Parallel and distributed Systems	-	Sunita Naik	CO 1	3	3
				CO 2	2	3
				CO 3	3	2.8
				CO 4	3	3
				CO 5	2	3
CPE8031	Machine Learning	-	Tatwadarshi N.	CO 1	3	2
				CO 2	3	2
				CO 3	3	2
				CO 4	3	2
CPP802	Project II	-	Janhavi Sangoi	CO 1	3	2.6
				CO 2	3	2.6
				CO 3	3	2.6
				CO 4	3	2.6
				CO 5	3	2.6
				CO 6	3	2.6
CPL801	Cloud Computing Laboratory	-	Tatwadarshi N/ Umesh Mohite / Vinit Raut	CO 1	2	3
				CO 2	3	3
				CO 3	2	3
				CO 4	3	3





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Electrical Engineering

Course Code	Subject	Div	Faculty Name	CO	Target Level	Attainment Level
EEC301	Applied Mathematics - III	-	Shiksha Singh	CO 1	3.00	2.40
				CO 2	3.00	2.40
				CO 3	3.00	2.40
				CO 4	3.00	2.40
				CO 5	3.00	2.40
				CO 6	2.50	2.40
EEC302	Electronics Devices and Circuits	-	Bhushan Save	CO 1	3.00	2.60
				CO 2	3.00	2.00
				CO 3	3.00	1.00
				CO 4	3.00	2.60
				CO 5	3.00	2.60
				CO 6	3.00	2.00
EEC303	Conventional and Non-Conventional Power Generation	-	Rahul Abhyankar	CO 1	3.00	1.40
				CO 2	3.00	1.40
				CO 3	3.00	1.40
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO 6	3.00	1.40
EEC304	Electrical and Electronics Measurement	-	Bhavita Patil	CO 1	3.00	1.40
				CO 2	3.00	1.40
				CO 3	3.00	1.40
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO 6	3.00	1.40
EEC305	Electrical Machine - I	-	Anojkumar Yadav	CO 1	3.00	1.40





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 2	3.00	1.00
				CO 3	3.00	1.20
				CO 4	3.00	1.00
				CO 5	3.00	1.00
				CO 6	3.00	1.00
EEL301	Electrical and Electronics Measurement Lab	-	Bhavita Patil	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	2.60
				CO	3.00	3.00
EEL302	Object Oriented Programming and Methodology Lab	-	Jhanvi Sangoi	CO 1	3.00	2.00
				CO 2	3.00	2.20
				CO 3	3.00	2.20
				CO 4	3.00	2.20
				CO 5	3.00	2.20
				CO 6	3.00	3.00
EEL303	Electronics Lab - I	-	Bhushan Save	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00
EEL304	Electrical Machine Lab - I	-	Anojkumar Yadav	CO 1	3.00	3.00
				CO 2	3.00	2.50
				CO 3	3.00	3.00
EEC401	Applied Mathematics -IV	-	Shiksha Singh	CO 1	3.00	1.10
				CO 2	3.00	0.98
				CO 3	3.00	0.98





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	3.00	1.10
				CO 5	3.00	1.10
				CO 6	2.50	0.81
EEC402	Power System - I	-	Mukeshkumar Mishra	CO 1	3.00	1.20
				CO 2	3.00	1.20
				CO 3	3.00	1.40
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO 6	3.00	1.40
EEC403	Electrical Machines – II	-	Anojkumar Yadav	CO 1	3.00	1.20
				CO 2	3.00	1.20
				CO 3	3.00	1.20
				CO 4	3.00	1.40
				CO 5	3.00	1.20
				CO 6	3.00	1.20
EEC404	Electromagnetic Field and wave Theory	-	Bhavita Patil	CO 1	3.00	1.40
				CO 2	3.00	1.40
				CO 3	3.00	1.40
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO	3.00	1.40
EEC405	Analog and Digital Integrated Circuits	-	Bhushan Save	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00
EEC406	Electrical Network	-	Chitralkha Vangala	CO 1	3.00	1.40
				CO 2	2.00	1.40





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	3.00	1.40
				CO 4	2.00	1.40
				CO 5	2.00	1.40
				CO 6	2.00	1.40
EEL401	Simulation Lab - I	-	Bhavita Patil	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
EEL402	Electrical Machines Lab - II	-	Kavita Mhaskar	CO 1	3.00	2.50
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	1.50
EEL403	Electronics Lab II	-	Bhushan Save	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
EEL404	Electrical Workshop	-	Mukeshkumar Mishra	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	2.50
EEL501	Protection and Switchgear Engineering	-	Sunil Suknale	CO 1	2.00	1.40
				CO 2	3.00	1.40
				CO 3	3.00	1.40
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO 6	2.00	1.40





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

EEC502	Electrical Machines - II	-	Piyali Mondal	CO 1	2.00	1.00
				CO 2	3.00	1.40
				CO 3	3.00	1.40
				CO 4	2.00	1.40
				CO 5	2.00	1.40
				CO 6	2.00	1.40
EEC503	Electromagnetic Field and wave Theory	-	Bhavita Patil	CO 1	3.00	1.40
				CO 2	3.00	1.40
				CO 3	3.00	1.40
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO	3.00	1.40
EEC504	Power Electronics	-	Sushantkumar	CO 1	2.00	1.20
				CO 2	2.00	1.40
				CO 3	2.00	1.40
				CO 4	2.00	1.40
				CO 5	2.00	1.20
				CO 6	2.00	1.40
EEC505	Communication Engineering	-	Vinodkumar Pal	CO 1	3.00	1.40
				CO 2	3.00	1.40
				CO 3	3.00	1.40
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO 6	3.00	1.40
EEC601	Power System Analysis	-	Prajakta Patil	CO 1	3.00	2.80
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 6	3.00	3.00
EEC602	Electrical Machines - III	-	Rahul Abhyankar	CO 1	3.00	1.40
				CO 2	3.00	1.40
				CO 3	2.00	1.20
				CO 4	2.00	1.40
				CO 6	3.00	3.00
EEC603	Utilization of Electrical Energy	-	Kavita Mhaskar	CO 1	3.00	1.40
				CO 2	3.00	1.20
				CO 3	3.00	1.40
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO 6	3.00	1.40
EEC604	Control System - I	-	Sushantkumar	CO 1	3.00	2.20
				CO 2	3.00	2.00
				CO 3	3.00	2.00
				CO 4	3.00	2.20
				CO 5	3.00	2.00
				CO 6	3.00	2.20
EEC605	Microcontroller and its Applications	-	Ashwini Haryan	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	2.80
				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	2.60	2.80
EEC606	Project Management	-	Sunil Suknale	CO 1	3.00	2.80
				CO 2	2.00	2.80
				CO 3	3.00	2.80
				CO 4	3.00	3.00
				CO 5	2.00	3.00
				CO 6	2.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

EEC701	Power System Operation and Control	-	Prajakta Patil	CO 1	3.00	1.40
				CO 2	3.00	1.40
				CO 3	3.00	1.40
				CO 4	3.00	1.40
				CO 5	3.00	1.20
				CO 6	3.00	1.20
EEC702	High Voltage DC Transmission	-	Sunil Suktale	CO 1	3.00	1.40
				CO 2	2.00	1.40
				CO 3	3.00	1.20
				CO 4	2.00	1.40
				CO 5	3.00	1.40
				CO 6	3.00	1.40
EEC703	Electrical Machine Design	-	Anojkumar Yadav	CO 1	3.00	1.40
				CO 2	3.00	1.40
				CO 3	3.00	1.40
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO 6	3.00	1.40
EEC704	Control System- II	-	Chitralkha Vangala	CO 1	3.00	1.40
				CO 2	3.00	1.40
				CO 3	3.00	1.20
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO 6	3.00	1.40
EEC705	High Voltage Engineering	-	Pratik Mahale	CO 1	3.00	2.80
				CO 2	3.00	2.60
				CO 3	3.00	2.80
				CO 4	3.00	2.80
				CO 5	3.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

EEC706	Project - I	-	Pratik Mahale	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO	3.00	3.00
EEC801	Design, Management and Auditing of Electrical System	-	Pratik Mahale	CO 1	3.00	3.00
				CO 2	3.00	2.60
				CO 3	3.00	3.00
				CO 4	3.00	2.60
				CO 5	3.00	2.80
				CO 6	3.00	3.00
EEC802	Drives and Control	-	Anojkumar Yadav	CO 1	3.00	3.00
				CO 2	3.00	2.80
				CO 3	3.00	3.00
				CO 4	3.00	2.80
				CO 5	3.00	2.80
				CO 6	3.00	2.80
EEC803	Power System Planning and Reliability	-	Chitralkha Vangala	CO 1	3.00	3.00
				CO 2	3.00	2.60
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	2.80
				CO 6	3.00	2.60
EEC804	Flexible AC Transmission System	-	Piyali Mondal	CO 1	2.00	1.20
				CO 2	2.00	1.20
				CO 3	2.00	1.20
				CO 4	2.00	1.20
				CO 5	2.00	1.20





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 6	2.00	1.20
EEC805	Project-II	-	Pratik Mahale	CO 1	3.00	3.00
				CO 2	3.00	3.00
				CO 3	3.00	3.00
				CO 4	3.00	3.00
				CO 5	3.00	3.00
				CO 6	3.00	3.00





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Electronics and Telecommunication Engineering

Course Code	Subject	Div.	Faculty Name	CO	Target Level	Attainment Level
Semester III						
ECC301	Applied Mathematics-III	-	Bhagyashree Netke	CO 1	2.00	0.34
				CO 2	2.00	0.32
				CO 3	3.00	0.29
				CO 4	2.00	0.40
				CO 5	2.50	0.34
				CO 6	2.25	0.43
ECC302	Electronic Devices & Circuits-I	-	Nutan Malekar / Shoeb Shaikh	CO 1	2.00	0.56
				CO 2	2.00	0.49
				CO 3	2.00	0.56
				CO 4	2.00	0.33
				CO 5	2.00	0.32
				CO 6	1.67	0.33
ECC303	Digital System Design	-	Nikita Thalia	CO 1	3.00	1.37
				CO 2	3.00	1.37
				CO 3	3.00	1.37
				CO 4	3.00	1.14
				CO 5	2.00	1.12
				CO 6	3.00	1.13
ECC304	Circuit Theory and Networks	-	Ameya Purandare	CO 1	3.00	0.48
				CO 2	2.00	0.52
				CO 3	2.00	0.51
				CO 4	2.00	0.51
				CO 5	2.00	0.43
				CO 6	2.00	0.44





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

ECC305	Electronic Instrumentation & Control Systems	-	Kushal Suvarna	CO 1	2.33	0.33
				CO 2	2.00	0.34
				CO 3	2.00	0.40
				CO 4	2.50	0.31
				CO 5	2.50	0.30
				CO 6	2.50	0.24
ECL301	Electronic Devices & Circuits-I Lab	-	Nutan Malekar / Shoeb Shaikh	CO 1	2.00	2.93
				CO 2	1.67	2.93
				CO 3	1.00	2.93
				CO 4	2.00	2.92
				CO 5	2.00	2.93
				CO 6	1.50	2.92
ECL302	Digital System Design Lab	-	Nikita Thalia	CO 1	2.33	2.96
				CO 2	2.33	2.96
				CO 3	2.00	2.95
				CO 4	2.00	2.91
ECL303	OOP using JAVA Lab	-	Kushal Suvarna	CO 1	2.00	2.91
				CO 2	1.50	2.90
				CO 3	2.00	2.90
				CO 4	2.00	2.90
				CO 5	2.00	2.89
Semester IV						
ECC401	Applied Mathematics-IV	-	Shiksha Singh	CO 1	3.00	0.56
				CO 2	3.00	0.51
				CO 3	3.00	0.48
				CO 4	3.00	0.56
				CO 5	3.00	0.56
				CO 6	2.50	0.43
ECC402	Electronic Devices & Circuits-II	-	Nutan Malekar	CO 1	2.00	0.56





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 2	2.00	0.49
				CO 3	2.33	0.49
				CO 4	2.00	0.57
				CO 5	2.00	0.53
				CO 6	2.00	0.53
ECC403	Linear Integrated Circuits	-	Kushal Suvarna	CO 1	2.66	0.44
				CO 2	2.66	0.45
				CO 3	2.66	0.40
				CO 4	2.66	0.57
				CO 5	2.66	0.49
				CO 6	2.66	0.36
ECC404	Signals & Systems	-	Archana Ingle	CO 1	1.40	0.54
				CO 2	2.00	0.54
				CO 3	2.80	0.57
				CO 4	2.80	0.56
				CO 5	2.80	0.45
				CO 6	2.80	0.56
ECC405	Principles of Communication Engineering	-	Kaustubha Gawas / Ameya Purandare	CO 1	2.00	0.51
				CO 2	2.00	0.57
				CO 3	2.00	0.57
				CO 4	2.00	0.44
				CO 5	2.00	0.48
				CO 6	2.00	0.56
ECL401	Electronic Devices & Circuits-II Lab	-	Nutan Malekar	CO 1	2.00	2.92
				CO 2	2.00	2.92
				CO 3	1.00	2.92
				CO 4	1.50	2.92
				CO 5	2.00	2.92
ECL402	Linear Integrated Circuits Lab	-	Kushal Suvarna	CO 1	2.66	2.92





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 2	2.66	2.91
				CO 3	2.66	2.90
				CO 4	2.66	2.91
				CO 5	2.66	2.90
				CO 6	2.66	2.90
ECL403	Principles of Communication Engineering Lab	-	Kaustubha Gawas / Ameya Purandare	CO 1	2.00	2.94
				CO 2	2.00	2.93
				CO 3	2.00	2.93
				CO 4	2.00	2.91
Semester V						
ETC501	Microcontrollers and Applications	-	Kaustubha Desai / Nutan Malekar	CO 1	2.00	0.34
				CO 2	2.00	0.33
				CO 3	2.00	0.48
				CO 4	2.00	0.36
				CO 5	2.00	0.49
				CO 6	1.50	0.49
ETC502	Analog Communication	-	Ashwini Kothavale	CO 1	2.00	2.98
				CO 2	2.00	2.98
				CO 3	2.00	2.98
				CO 4	2.00	2.93
				CO 5	2.00	2.89
				CO 6	2.00	2.89
ETC503	Random Signal Analysis	-	Shoeb Shaikh	CO 1	3.00	2.10
				CO 2	3.00	2.06
				CO 3	3.00	2.10
				CO 4	3.00	2.10
				CO 5	3.00	2.02
				CO 6	3.00	2.10
ETC504	RF Modelling and Antennas	-		CO 1	2.00	2.08





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

			Ameya Purandare / Chitra Takle	CO 2	3.00	2.08
				CO 3	3.00	2.09
				CO 4	2.00	2.16
				CO 5	3.00	2.11
				CO 6	2.00	2.12
ETC505	Integrated Circuits	-	Mohini Ghotekar	CO 1	2.00	0.57
				CO 2	2.00	0.58
				CO 3	2.00	0.57
				CO 4	2.00	0.57
				CO 5	2.00	0.49
				CO 6	2.00	0.49
ETS506	Business Communication and Ethics	-	Trupti Patil, Swaranjali Vidyasagar	CO 1	2.25	2.82
				CO 2	2.50	2.81
				CO 3	2.66	2.83
				CO 4	2.33	2.82
ETL501	Microcontrollers and Applications Lab	-	Kaustubha Desai / Nutan Malekar	CO 1	2.00	2.95
				CO 2	2.00	2.92
				CO 3	2.00	2.94
				CO 4	2.00	2.55
ETL502	Communication Engineering Laboratory I	-	Ashwini Kothavale / Mohini Ghotekar	CO 1	2.66	2.93
				CO 2	2.33	2.93
				CO 3	2.33	2.93
				CO 4	2.50	2.92
ETL503	Communication Engineering Laboratory II	-	Ameya Purandare / Mohini Ghotekar	CO 1	2.50	2.92
				CO 2	2.00	2.92
				CO 3	2.00	2.93
				CO 4	2.33	2.94
ETL504	Mini Project I	-	Ashwini Kothavale / Shoeb Shaikh	CO 1	2.67	2.94
				CO 2	2.67	2.95





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	3.00	2.95
				CO 4	3.00	2.95
Semester VI						
ETC601	Digital Communication	-	Meena Perla	CO 1	1.00	2.85
				CO 2	2.00	2.77
				CO 3	2.00	2.72
				CO 4	3.00	2.76
				CO 5	3.00	2.92
				CO 6	2.00	2.89
ETC602	Discrete Time Signal Processing	-	Madhura Ranade	CO 1	1.00	2.10
				CO 2	2.00	2.02
				CO 3	1.00	2.02
				CO 4	2.00	2.10
				CO 5	1.00	1.85
				CO 6	1.00	2.01
ETC603	Computer Communication and Telecom Networks	-	Kaustubha Gawas	CO 1	2.00	2.89
				CO 2	2.00	2.73
				CO 3	2.00	2.89
				CO 4	2.00	2.89
				CO 5	2.00	2.89
				CO 6	2.00	2.89
ETC604	Television Engineering	-	Ameya Purandare	CO 1	3.00	2.09
				CO 2	2.00	1.96
				CO 3	2.00	2.18
				CO 4	3.00	2.00
				CO 5	3.00	2.00
				CO 6	2.00	2.18
ETC605	Operating Systems	-	Mohini Ghotekar	CO 1	3.00	2.97
				CO 2	2.00	2.97





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	1.00	2.89
				CO 4	3.00	2.97
				CO 5	2.50	2.96
				CO 6	2.30	2.93
ETC606	VLSI Design	-	Pratik Parsewar	CO 1	2.00	0.37
				CO 2	2.00	0.48
				CO 3	1.50	0.40
				CO 4	2.00	0.44
				CO 5	2.00	0.40
				CO 6	2.00	0.24
ETL601	Discrete Time Signal Processing Laboratory	-	Madhura Ranade	CO 1	3.00	1.56
				CO 2	1.00	1.55
				CO 3	1.00	1.56
				CO 4	3.00	1.55
ETL602	Communication Engineering Laboratory III	-	Meena Perla	CO 1	2.00	2.87
				CO 2	3.00	2.88
				CO 3	3.00	2.87
				CO 4	2.00	2.87
				CO 5	2.00	2.86
				CO 6	2.00	2.86
ETL603	Communication Engineering Laboratory IV	-	Pratik Parsewar / Ameya Purandare	CO 1	3.00	2.93
				CO 2	2.00	2.93
				CO 3	2.00	2.94
				CO 4	2.00	2.94
				CO 5	2.00	2.92
				CO 6	2.00	2.93
ETL604	Mini Project II	-	Kushal Suvarna	CO 1	2.33	2.80
				CO 2	2.60	2.80
				CO 3	3.00	2.80





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	3.00	2.80
Semester VII						
ETC701	Image and Video Processing	-	Chitra Takle	CO 1	3.00	0.33
				CO 2	3.00	0.41
				CO 3	2.00	0.53
				CO 4	3.00	0.45
				CO 5	2.00	0.49
				CO 6	3.00	0.57
ETC702	Mobile Communication	-	Archana Ingle	CO 1	1.67	1.21
				CO 2	3.00	1.22
				CO 3	2.00	1.21
				CO 4	2.50	0.96
				CO 5	2.33	1.21
				CO 6	2.75	1.13
ETC703	Optical Communication and Networks	-	Kaustubha Desai	CO 1	2.00	0.53
				CO 2	2.00	0.57
				CO 3	2.00	0.41
				CO 4	2.00	0.57
				CO 5	2.00	0.53
				CO 6	2.00	0.57
ETC704	Microwave and Radar Engineering	-	Mohini Ghotekar / Ashwini Kothawale	CO 1	2.00	1.33
				CO 2	2.00	1.29
				CO 3	2.00	1.24
				CO 4	2.00	1.39
				CO 5	2.00	1.34
				CO 6	2.00	1.37
ETE701	Data Compression and Encryption	-	Karishma Raut	CO 1	2.00	1.39
				CO 2	2.00	1.39
				CO 3	2.00	1.39





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	2.00	1.35
				CO 5	2.00	1.39
				CO 6	2.00	1.39
ETL701	Image and Video Processing Laboratory	-	Chitra Takle	CO 1	3.00	2.94
				CO 2	3.00	2.93
				CO 3	2.00	2.94
				CO 4	3.00	2.92
				CO 5	3.00	2.93
ETL702	Advanced communication Engineering. Laboratory I Mobile Communication System Lab	-	Archana Ingle / Ameya Purandare	CO 1	2.00	2.93
				CO 2	3.00	2.92
				CO 3	2.00	2.93
				CO 4	3.00	2.91
ETL703	Advanced communication Engineering. Laboratory II	-	Kaustubha / Mohini	CO 1	2.50	2.89
				CO 2	2.00	2.88
				CO 3	2.00	2.89
				CO 4	3.00	2.92
				CO 5	2.00	2.89
				CO 6	3.00	2.92
ETEL701	Data Compression and Encryption Lab	-	Karishma Raut	CO 1	2.00	2.95
				CO 2	2.00	2.93
				CO 3	2.00	2.95
				CO 4	2.00	2.95
ETP 701	Project-I	-	Karishma Raut	CO 1	2.00	2.93
				CO 2	2.00	2.93
				CO 3	2.00	2.93
				CO 4	2.00	2.94
Semester VIII						
ETC801	Wireless Networks	-	Mohini Ghotekar / Pratik Parsewar	CO 1	2.00	2.09
				CO 2	2.00	1.96





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	2.00	2.12
				CO 4	2.00	2.09
				CO 5	2.33	2.08
ETC802	Satellite communication and Networks	-	Chitra Takle	CO 1	2.00	2.05
				CO 2	2.00	2.17
				CO 3	3.00	2.09
				CO 4	2.00	2.17
				CO 5	2.00	2.17
				CO 6	2.00	2.05
ETC803	Internet and Voice Communication	-	Karishma Raut	CO 1	2.00	1.38
				CO 2	2.00	1.35
				CO 3	2.00	1.38
				CO 4	2.00	1.26
				CO 5	2.00	1.30
				CO 6	2.00	1.37
ETE802	Telecom Network Management	-	Shoeb Shaikh	CO 1	2.00	1.97
				CO 2	2.00	2.00
				CO 3	2.00	1.88
				CO 4	2.00	1.97
				CO 5	2.00	2.05
				CO 6	2.00	2.09
ETL801	Wireless Networks Laboratory	-	Pratik Parsewar	CO 1	2.00	2.92
				CO 2	2.00	2.91
				CO 3	2.00	2.91
				CO 4	2.00	2.92
				CO 5	2.33	2.91
ETL802	Satellite communication and Networks Laboratory	-	Chitra Takle	CO 1	2.00	2.93
				CO 2	3.00	2.92
				CO 3	2.00	2.92





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	2.00	2.92
ETL803	Internet and Voice Communication Laboratory	-	Karishma Raut / Meena Perla	CO 1	2.00	2.94
				CO 2	2.00	2.95
				CO 3	2.00	2.93
				CO 4	2.00	2.94
EDEL802	Telecom Network Management	-	Shoeb Shaikh	CO 1	2.00	2.94
				CO 2	2.00	2.93
				CO 3	2.00	2.93
				CO 4	2.00	2.94
				CO 5	2.00	2.93
ETP801	Project (Stage II)	-	Karishma Raut	CO 6	2.00	2.93
				CO 1	2.00	2.94
				CO 2	2.00	2.94
				CO 3	2.00	2.95
				CO 4	2.00	2.95





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Mechanical Engineering

Course Code	Subject	Div	Faculty Name	CO	Target Level	Attainment Level
Semester III						
MEC301	Applied Mathematics III	A	Ramashankar Prajapati	CO 1	2.00	1.06
				CO 2	3.00	1.16
				CO 3	2.00	1.54
				CO 4	3.00	1.24
				CO 5	3.00	1.52
				CO 6	2.00	1.04
MEC302	Thermodynamics	A	Aditi Pimple	CO 1	3.00	0.57
				CO 2	3.00	0.24
				CO 3	3.00	0.06
				CO 4	3.00	0.22
				CO 5	3.00	0.06
				CO 6	3.00	0.07
MEC303	Strength of Materials	A	Mansi Lakhani	CO 1	3.00	1.33
				CO 2	2.66	1.22
				CO 3	2.66	1.21
				CO 4	2.66	1.27
				CO 5	2.66	1.37
				CO 6	2.66	1.32
MEL302	Strength of Materials - Lab.	A	Mansi Lakhani	CO 1	3.00	2.99
				CO 2	3.00	2.98
				CO 3	3.00	2.99
				CO 4	3.00	2.98
				CO 5	3.00	2.97





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 6	3.00	2.96
MEC304	Production Process- I	A	Tejas Chaudhari	CO 1	3.00	2.18
				CO 2	3.00	1.68
				CO 3	3.00	1.69
				CO 4	3.00	1.69
				CO 5	3.00	2.18
				CO 6	3.00	2.01
MEC305	Material Technology	A	Nilesh Nagare	CO 1	3.00	2.80
				CO 2	3.00	2.98
				CO 3	2.50	2.88
				CO 4	2.00	2.86
				CO 5	2.50	2.92
				CO 6	3.00	2.88
MEL302	Material Technology-LAB	A	Nilesh Nagare	CO 1	3.00	2.74
				CO 2	3.00	2.82
				CO 3	3.00	2.81
				CO 4	3.00	2.70
				CO 5	3.00	2.86
				CO 6	3.00	2.03
MEL301	Computer Aided Machine Drawing	A	Priyank Vartak	CO 1	2.00	2.45
				CO 2	2.00	2.03
				CO 3	2.00	2.32
				CO 4	2.00	2.03
				CO 5	2.00	2.03
				CO 6	2.00	2.45
MEL304	Machine Shop Practice I	A	Ulhas Thakur	CO 1	2.00	0.88
				CO 2	2.00	0.88
				CO 3	2.00	0.88





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	2.00	0.89
				CO 5	2.00	0.88
				CO 6	2.00	0.89
MEC301	Applied Mathematics III	B	Ramashankar Prajapati	CO 1	2.00	1.02
				CO 2	3.00	1.20
				CO 3	2.00	1.37
				CO 4	3.00	1.17
				CO 5	3.00	1.24
				CO 6	2.00	0.93
MEC302	Thermodynamics	B	Omkar Joshi	CO 1	3.00	0.57
				CO 2	3.00	0.07
				CO 3	3.00	0.06
				CO 4	3.00	0.22
				CO 5	3.00	0.06
				CO 6	3.00	0.07
MEC303	Strength of Materials	B	Akshay Naik	CO 1	3.00	1.12
				CO 2	2.66	1.06
				CO 3	2.66	1.24
				CO 4	2.66	1.19
				CO 5	2.66	1.28
				CO 6	2.66	1.31
MEL302	Strength of Materials LAB	B	Akshay Naik	CO 1	3.00	2.89
				CO 2	3.00	2.92
				CO 3	3.00	2.92
				CO 4	3.00	2.92
				CO 5	3.00	2.91
				CO 6	3.00	2.90
MEC304	Production Process- I	B	Tejas Chaudhari	CO 1	3.00	1.85





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 2	3.00	2.18
				CO 3	3.00	2.18
				CO 4	3.00	1.85
				CO 5	3.00	2.17
				CO 6	3.00	2.01
MEC305	Computer Aided M/c Drawing	B	Vinit Raut	CO 1	3.00	2.18
				CO 2	3.00	2.18
				CO 3	3.00	2.12
				CO 4	3.00	2.10
				CO 5	3.00	2.18
MEL302	Material Technology	B	Nilesh Nagare	CO 6	3.00	2.18
				CO 1	3.00	2.87
				CO 2	3.00	2.97
				CO 3	2.50	2.89
				CO 4	2.00	2.96
MEL301	Material Technology - Lab	B	Nilesh Nagare	CO 5	2.50	2.96
				CO 6	3.00	2.75
				CO 1	3.00	2.77
				CO 2	3.00	2.40
				CO 3	3.00	2.79
MEL304	Machine Shop Practice I	B	Ulhas Thakur	CO 4	3.00	2.85
				CO 5	3.00	2.85
				CO 6	3.00	2.84
				CO 1	2.00	0.88
				CO 2	2.00	0.88
				CO 3	2.00	0.88
				CO 4	2.00	0.89
				CO 5	2.00	0.88





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 6	2.00	0.89
Semester IV						
MEC401	Applied Mathematics IV	A	Ramashankar Prajapati	CO 1	2.00	1.20
				CO 2	3.00	1.20
				CO 3	2.00	1.00
				CO 4	3.00	1.40
				CO 5	3.00	1.40
				CO 6	3.00	1.20
MEC402	Fluid Mechanics	A	Mayur Jagtap	CO 1	3.00	1.38
				CO 2	2.00	1.37
				CO 3	2.00	1.36
				CO 4	2.00	1.38
				CO 5	2.00	1.20
				CO 6	2.00	1.19
MEL402	Fluid Mechanics - Lab.	A	Mayur Jagtap	CO 2	2.66	2.97
				CO 3	2.66	2.98
				CO 4	2.66	2.98
				CO 5	2.66	2.98
				CO 6	2.66	2.98
MEC405	Kinetics of Machines	A	Swapnil Raut	CO 1	3.00	1.26
				CO 2	3.00	1.26
				CO 3	3.00	1.32
				CO 4	3.00	1.15
				CO 5	3.00	1.37
				CO 6	3.00	1.37
MEL404	Kinetics of Machines - Lab	A	Swapnil Raut	CO 1	3.00	2.93
				CO 2	3.00	2.92
				CO 3	3.00	2.89





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	3.00	2.11
				CO 5	3.00	2.13
				CO 6	3.00	2.02
MEC404	Production Process- II	A	Mansi Lakhani	CO 1	3.00	1.39
				CO 2	3.00	1.38
				CO 3	3.00	1.38
				CO 4	3.00	1.38
				CO 5	3.00	1.21
				CO 6	2.50	1.04
MEL401	DBIR	A	Akhilesh Yadav	CO 1	3.00	2.40
				CO 2	3.00	2.44
				CO 3	3.00	2.78
				CO 4	3.00	2.56
				CO 5	3.00	2.88
				CO 6	3.00	2.82
MEC403	Industrial Electronics	A	Sushant Bansal	CO 1	2.00	0.57
				CO 2	2.00	0.07
				CO 3	2.00	0.57
				CO 4	2.00	0.56
				CO 5	2.00	0.56
				CO 6	2.00	0.07
MEL403	Industrial Electronics - Lab	A	Sushant Bansal	CO 1	3.00	2.16
				CO 2	3.00	1.00
				CO 3	3.00	2.02
				CO 4	3.00	2.17
				CO 5	3.00	2.15
				CO 6	3.00	2.17
MEL405	Machine Shop Practice II	A	Ulhas Thakur	CO 1	2.00	2.50





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 2	2.00	2.49
				CO 3	2.00	2.49
				CO 4	2.00	2.48
				CO 5	2.00	2.48
				CO 6	2.00	2.50
MEC401	Applied Mathematics IV	B	Ramashankar Prajapati	CO 1	2.00	1.20
				CO 2	3.00	1.00
				CO 3	2.00	1.40
				CO 4	3.00	1.20
				CO 5	3.00	1.20
MEC402	Fluid Mechanics	B	Chhaya Patil	CO 6	3.00	1.00
				CO 1	3.00	1.38
				CO 2	2.00	1.37
				CO 3	2.00	1.20
				CO 4	2.00	1.38
MEL402	Fluid Mechanics - Lab.	B	Chhaya Patil	CO 5	2.00	1.12
				CO 6	2.00	1.03
				CO 2	2.66	2.97
				CO 3	2.66	2.98
				CO 4	2.66	2.98
MEC405	Kinematics of Machinery	B	Pratik Raut	CO 5	2.66	2.98
				CO 6	2.66	2.98
				CO 1	3.00	0.70
				CO 2	3.00	0.69
				CO 3	3.00	0.45
				CO 4	3.00	0.51
				CO 5	3.00	0.67
				CO 6	3.00	0.25





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

MEL404	Kinematics of Machinery Lab	B	Pratik Raut	CO 1	3.00	2.92
				CO 2	3.00	1.22
				CO 3	3.00	2.08
				CO 4	3.00	2.09
				CO 5	3.00	2.85
				CO 6	3.00	2.92
MEC404	Production Process- II	B	Mansi Lakhani	CO 1	3.00	2.18
				CO 2	3.00	2.18
				CO 3	3.00	2.18
				CO 4	3.00	2.18
				CO 5	3.00	1.85
				CO 6	2.50	2.01
MEL401	DBIR	B	Akhilesh Yadav	CO 1	3.00	2.41
				CO 2	3.00	2.50
				CO 3	3.00	2.69
				CO 4	3.00	2.33
				CO 5	3.00	2.79
				CO 6	3.00	2.88
MEC403	Industrial Electronics	B	Sunil Suknale	CO 1	2.00	0.55
				CO 2	2.00	0.05
				CO 3	2.00	0.57
				CO 4	2.00	0.05
				CO 5	2.00	0.21
				CO 6	2.00	0.35
MEL403	Industrial Electronics - Lab	B	Sunil Suknale	CO 1	3.00	2.96
				CO 2	3.00	2.96
				CO 3	3.00	2.96
				CO 4	3.00	2.96





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 5	3.00	2.96
				CO 6	3.00	2.95
MEL405	Machine Shop Practise II	B	Ulhas Thakur	CO 1	2.00	2.50
				CO 2	2.00	2.49
				CO 3	2.00	2.49
				CO 4	2.00	2.48
				CO 5	2.00	2.48
				CO 6	2.00	2.50
Semester V						
MEC501	I C Engines	A	Aniket Deshmukh	CO 1	3.00	2.12
				CO 2	3.00	2.05
				CO 3	2.50	2.08
				CO 4	3.00	2.09
				CO 5	2.60	2.00
				CO 6	3.00	2.03
MEC502	Mechanical Measurements and Control	A	Manojkumar Yadav	CO 1	2.33	1.38
				CO 2	2.33	1.34
				CO 3	2.33	1.31
				CO 4	2.33	1.36
				CO 5	2.67	1.33
				CO 6	2.67	1.32
MEC503	Production Process-III	A	Tushar Mestry	CO 1	1.40	1.39
				CO 2	1.55	1.33
				CO 3	1.60	1.27
				CO 4	1.33	1.38
				CO 5	1.60	1.21
MEC504	Theory of Machines- II	A	Shreeyesh Kutty	CO 1	2.66	0.52





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 2	2.66	0.51
				CO 3	2.66	0.50
				CO 4	2.66	0.48
				CO 5	2.66	0.57
				CO 6	2.66	0.23
MEC505	Heat Transfer	A	Henisha Raut	CO 1	3.00	1.40
				CO 2	2.66	1.39
				CO 3	2.33	1.31
				CO 4	3.00	1.38
				CO 5	3.00	1.38
				CO 6	3.00	1.38
MEL501	Business Communication and Ethics	A	Prashant Pawar	CO 1	3.00	2.50
				CO 2	3.00	2.24
				CO 3	3.00	2.51
				CO 4	3.00	2.76
				CO 5	3.00	2.40
MEC501	I C Engines	B	Mayur Jagtap	CO 1	2.00	2.09
				CO 2	1.60	2.87
				CO 3	1.50	1.77
				CO 4	2.00	0.87
				CO 5	4.50	3.88
				CO 6	1.50	2.83
MEC502	Mechanical Measurements and Control	B	Manojkumar Yadav	CO 1	2.33	2.18
				CO 2	2.33	2.14
				CO 3	2.33	2.11
				CO 4	2.33	2.16
				CO 5	2.67	2.13
				CO 6	2.67	2.12





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

MEC503	Production Process-III	B	Tushar Mestry	CO 1	1.40	1.38
				CO 2	1.40	1.31
				CO 3	1.60	1.26
				CO 4	1.30	1.38
				CO 5	1.60	1.21
				CO 6	1.40	1.26
MEC504	Theory of Machines- II	B	Shreeyesh Kutty	CO 1	2.66	0.52
				CO 2	2.66	0.51
				CO 3	2.66	0.50
				CO 4	2.66	0.48
				CO 5	2.66	0.57
				CO 6	2.66	0.23
MEC505	Heat Transfer	B	Henisha Raut	CO 1	3.00	1.22
				CO 2	2.66	1.34
				CO 3	2.33	1.27
				CO 4	3.00	1.37
				CO 5	3.00	1.37
				CO 6	3.00	1.38
MEL501	Business Communication and Ethics	B	Prashant Pawar	CO 1	3.00	2.50
				CO 2	3.00	2.24
				CO 3	3.00	2.51
				CO 4	3.00	2.76
				CO 5	3.00	2.40
Semester VI						
MEC601	Metrology and Quality Engineering	A	Manojkumar Yadav	CO 1	1.70	2.03
				CO 2	2.00	2.48
				CO 3	2.70	2.52
				CO 4	2.00	2.77





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 5	2.00	2.35
				CO 6	2.00	2.39
MEC602	Machine Design I	A	Varghese Koshy	CO 1	2.67	0.91
				CO 2	2.67	0.91
				CO 3	2.67	0.80
				CO 4	2.67	0.97
				CO 5	2.67	0.80
				CO 6	2.67	1.19
MEC603	Mechanical Vibrations	A	Omkar Joshi	CO 1	2.66	1.37
				CO 2	2.66	1.34
				CO 3	2.66	1.37
				CO 4	2.66	1.27
				CO 5	2.66	1.31
				CO 6	2.66	1.21
MEC604	Thermal and Fluid Power Engineering	A	Suneet Mehta	CO 1	3.00	0.46
				CO 2	3.00	0.32
				CO 3	3.00	0.38
				CO 4	3.00	0.39
				CO 5	2.50	0.38
				CO 6	3.00	0.28
MEC606	Mechatronics	A	Tushar Mestry	CO 1	3.00	1.21
				CO 2	3.00	1.12
				CO 3	3.00	1.12
				CO 4	3.00	1.21
				CO 5	3.00	1.48
				CO 6	3.00	0.82
MEC605	Finite Element Analysis	A	Priyank Vartak	CO 1	3.00	0.53
				CO 2	3.00	0.44





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 3	2.33	0.45
				CO 4	2.00	0.39
				CO 5	2.33	0.43
				CO 6	2.00	0.38
MEC601	Metrology and Quality Engineering	B	Manojkumar Yadav	CO 1	1.70	2.56
				CO 2	2.00	2.88
				CO 3	2.70	2.74
				CO 4	2.00	2.88
				CO 5	2.00	2.90
				CO 6	2.00	2.90
MEC602	Machine Design I	B	Varghese Koshy	CO 1	2.67	2.84
				CO 2	2.67	2.68
				CO 3	2.67	1.60
				CO 4	2.67	2.68
				CO 5	2.67	2.48
				CO 6	2.67	2.62
MEC603	Mechanical Vibrations	B	Pramod Vishwakarma	CO 1	2.66	1.57
				CO 2	2.66	1.37
				CO 3	2.66	1.37
				CO 4	2.66	1.34
				CO 5	2.66	1.31
				CO 6	2.66	1.21
MEC604	Thermal and Fluid Power Engineering	B	Henisha Raut	CO 1	3.00	1.35
				CO 2	3.00	1.21
				CO 3	3.00	1.38
				CO 4	3.00	1.35
				CO 5	2.50	1.38
				CO 6	3.00	1.38





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

MEC606	Mechatronics	B	Tushar Mestry	CO 1	3.00	1.11
				CO 2	3.00	1.23
				CO 3	3.00	1.52
				CO 4	3.00	1.31
				CO 5	3.00	1.56
				CO 6	3.00	0.98
MEC605	Finite Element Analysis	B	Shreeyesh Kutty	CO 1	3.00	0.53
				CO 2	3.00	0.44
				CO 3	2.33	0.45
				CO 4	2.00	0.39
				CO 5	2.33	0.43
Semester VII						
MEC701	Machine Design -II	A	Varghese Koshy	CO 1	2.67	0.88
				CO 2	2.67	0.97
				CO 3	2.67	0.99
				CO 4	2.67	0.97
				CO 5	2.67	0.97
				CO 6	2.67	0.91
MEC702	CAD/CAM/CAE	A	Suneet Mehta	CO 1	3.00	2.75
				CO 2	3.00	2.73
				CO 3	3.00	2.83
				CO 4	3.00	2.47
				CO 5	2.50	2.75
				CO 6	3.00	2.85
MEC703	Mechanical Utility Systems	A	Rajkumar Devkar	CO 1	2.33	2.11
				CO 2	2.33	2.03
				CO 3	2.00	2.03





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 4	2.00	2.00
				CO 5	2.66	2.13
				CO 6	2.00	2.04
MEC704	Production Planning and Control	A	Chinmay Pingulkar	CO 1	2.75	1.33
				CO 2	2.67	1.30
				CO 3	2.67	1.33
				CO 4	2.67	1.31
				CO 5	2.67	1.30
				CO 6	2.67	1.28
MEE7019	Operations Research	A	Swapnil Raut	CO 1	2.75	2.07
				CO 2	2.67	2.12
				CO 3	2.67	1.98
				CO 4	2.67	1.95
				CO 5	2.67	1.91
				CO 6	2.67	1.76
MEC701	Machine Design -II	B	Varghese Koshy	CO 1	2.67	1.60
				CO 2	2.67	1.77
				CO 3	2.67	1.99
				CO 4	2.67	1.60
				CO 5	2.67	1.91
				CO 6	2.67	1.82
MEC702	CAD/CAM/CAE	B	Pratik Raut	CO 1	3.00	2.17
				CO 2	3.00	2.09
				CO 3	3.00	2.11
				CO 4	3.00	2.17
				CO 5	2.50	2.17
				CO 6	3.00	2.17
MEC703	Mechanical Utility Systems	B	Shweta Patel	CO 1	2.33	2.77





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 2	2.33	2.83
				CO 3	2.00	2.97
				CO 4	2.00	2.97
				CO 5	2.66	2.89
				CO 6	2.00	2.84
MEC704	Production Planning and Control	B	Chinmay Pingulkar	CO 1	2.75	2.93
				CO 2	2.67	2.90
				CO 3	2.67	2.93
				CO 4	2.67	2.91
				CO 5	2.67	2.90
MEE7019	Operations Research	B	Swapnil Raut	CO 6	2.67	2.88
				CO 1	2.75	2.07
				CO 2	2.67	1.98
				CO 3	2.67	1.98
				CO 4	2.67	1.96
MEP701	Project I		Chinmay Pingulkar	CO 5	2.67	1.98
				CO 6	2.67	1.93
				CO 1	3.00	2.00
				CO 2	3.00	2.00
				CO 3	3.00	2.00
Semester VIII						
MEC801	Design of Mechanical Systems	A	Rajkumar Devkar	CO 4	2.60	2.00
				CO 5	3.00	2.00
				CO 6	3.00	2.00
				CO 1	2.00	2.08
				CO 2	3.00	2.05
				CO 3	3.00	2.16
				CO 4	3.00	2.01





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 5	3.00	2.10
MEC802	Industrial Engineering and Management	A	Chinmay Pingulkar	CO 1	2.75	2.06
				CO 2	2.67	1.94
				CO 3	2.67	2.18
				CO 4	2.67	2.18
				CO 5	2.67	2.06
				CO 6	2.67	1.84
MEC803	Refrigeration and Air Conditioning	A	Shweta Patel	CO 1	3.00	2.75
				CO 2	3.00	2.65
				CO 3	3.00	2.97
				CO 4	3.00	2.72
				CO 5	2.50	2.96
MEC803	Renewable Energy Sources	A	Tejas Chaudhari	CO 6	2.50	2.97
				CO 1	2.25	2.95
				CO 2	2.25	2.99
				CO 3	2.25	2.99
				CO 4	2.34	2.98
MEC801	Design of Mechanical Systems	B	Aniket Deshmukh	CO 5	2.00	2.99
				CO 6	2.00	2.81
				CO 1	2.00	2.68
				CO 2	3.00	2.68
				CO 3	3.00	2.67
MEC802	Industrial Engineering and Management	B	Chinmay Pingulkar	CO 4	3.00	2.70
				CO 5	3.00	2.74
				CO 1	2.75	1.96
				CO 2	2.67	2.11
				CO 3	2.67	2.07
				CO 4	2.67	2.18





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

				CO 5	2.67	2.07
				CO 6	2.67	1.84
MEC803	Refrigeration and Air Conditioning	B	Shweta Patel	CO 1	3.00	2.75
				CO 2	3.00	2.65
				CO 3	3.00	2.97
				CO 4	3.00	2.72
				CO 5	2.50	2.96
				CO 6	2.50	2.97
MEE802	Renewable Energy Sources	B	Vinit Raut	CO 1	2.25	2.94
				CO 2	2.25	2.93
				CO 3	2.25	2.93
				CO 4	2.34	2.63
				CO 5	2.00	2.92
				CO 6	2.00	2.89
MEP802	Project I	A & B	Chinmay Pingulkar	CO 1	3.00	2.67
				CO 2	3.00	2.67
				CO 3	3.00	2.67
				CO 4	3.00	2.67
				CO 5	3.00	2.67
				CO 6	3.00	2.67





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
 At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

M.E. Manufacturing Systems Engineering

Course Code	Subject	Div.	Faculty Name	CO	Target Level	Attainment Level
Semester I						
MSEC 103	Quality Engineering	-	Niyati Raut	CO 1	3	2.654
				CO 2	2	2.652
				CO 3	2.34	2.654
				CO 4	3	2.85
				CO 5	3	2.726
MSEDLO 1012	World Class Manufacturing	-	Dr. Arunkumar	CO 1	3	2.99
				CO 2	3	2.978
MSEC 101	Product Design & Development	-	Niyati Raut	CO 1	3	2.656
				CO 2	1.75	2.99
				CO 3	2.34	2.906
				CO 4	3	2.978
				CO 5	2.34	2.978
ILO 1014	Design Of Experiment	-	Dr. Arunkumar	CO 1	3	2.978
				CO 2	3	2.99
				CO 3	3	2.979
MSEC102	Computer Integrated Manufacturing	-	Dr. Arunkumar	CO 1	3	2.99
				CO 2	3	2.99
Semester II						
MSEC202	Industrial Automation	-	Niyati Raut	CO 1	3	2.905
				CO 2	2.34	2.768
ILO2026	Research Methodology	-	Niyati Raut	CO 1	3	2.956
				CO 2	3	2.967
				CO 3	2.67	2.967
				CO 4	3	2.967





Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

MSEC203	Advance Quantitative Technique	-	Dr. Arunkumar	CO 1	3	1.367
				CO 2	3	1.191
				CO 3	3	1.367
				CO 4	3	1.357
MSEC201	Sustainable Manufacturing	-	Dr. Arunkumar	CO 1	3	2.967
				CO 2	3	2.967
				CO 3	3	2.967
				CO 4	3	2.967
				CO 5	3	2.967
MSEDLO 2021	Logistic & Supply Chain Management	-	Dr. Arunkumar	CO 1	3	2.977
				CO 2	3	2.957
				CO 3	3	2.957
				CO 4	3	2.967

