JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Results for IV B.Tech I Semester [R13/R10] Regular/Supplementary Examinations Dec-2018
College: JNTU KAKINADA UNIVERSITY COLLEGE OF ENGINEERING, VIZIANAGARAM:VV

Htno	Subcode	Subname	Internal	External	Credits
12VV1A0210	R41026	Instrumentation	21	37	4
12VV1A0526	R41051	Cryptography and Network Security	7	40	4
13VV1A0242	RT41023	Power System Operation & Control	19	9	0
13VV1A0256	RT41023	Power System Operation & Control	6	12	0
14VV1A0208	RT41025	Instrumentation	20	-1	0
14VV1A0302	RT41033	Finite Element Methods	12	6	0
14VV1A0346	RT41033	Finite Element Methods	21	-1	0
14VV1A0356	RT41031	Automobile Engineering	25	51	3
14VV1A0356	RT41032	CAD/CAM	29	44	3
14VV1A0356	RT41033	Finite Element Methods	24	42	3
14VV1A0356	RT41034	Unconventional Machining Processes	24	49	3
14VV1A0356	RT41035	Micro Electro Mechanical Systems	27	55	3
14VV1A0356	RT41039	Automation in Manufacturing	26	50	3
14VV1A0356	RT4103L	Simulation Lab	23	49	2
14VV1A0356	RT4103M	Design/Fabrication Project	48	0	1
14VV1A0428	RT41041	VLSI Design	19	4	0
14VV1A1254	RT41051	Cryptography and Network Security	14	8	0
14VV1A1254	RT41052	UML & Design Patterns	23	32	3
14VV1A1254	RT41053	Mobile Computing	20	34	3
14VV1A1254	RT41056	Information Retrieval Systems	20	25	3
14VV1A1254	RT4105B	Hadoop and Big Data	21	44	3
14VV1A1254	RT4112L	UML & Design Patterns Lab	23	45	2
14VV1A1254	RT4112M	Mobile Application Development Lab	21	44	2
14VV1A1254	RT4112N	Software Engineering Lab	21	42	2
14VV1A1254	RT4112O	Hadoop & Big Data Lab	22	40	2
15VV1A0101	RT41011	Environmental Engineering - II	27	61	3
15VV1A0101	RT41012	Prestressed Concrete	26	48	3
15VV1A0101	RT41013	Construction Technology and Management	25	48	3
15VV1A0101	RT41014	Water Resource Engineering - II	23	70	3
15VV1A0101	RT41015	Remote Sensing and GIS Applications	26	52	3
15VV1A0101	RT41016	Ground Improvement Techiniques	29	54	3
15VV1A0101	RT4101L	Environmental Engineering Lab	23	46	2
15VV1A0101	RT4101M	GIS & CAD Lab	23	45	2
15VV1A0102	RT41011	Environmental Engineering - II	27	69	3
15VV1A0102	RT41012	Prestressed Concrete	25	50	3
15VV1A0102	RT41013	Construction Technology and Management	27	44	3
15VV1A0102	RT41014	Water Resource Engineering - II	23	67	3
15VV1A0102	RT41015	Remote Sensing and GIS Applications	27	53	3
15VV1A0102	RT41016	Ground Improvement Techiniques	29	58	3
15VV1A0102	RT4101L	Environmental Engineering Lab	21	44	2
15VV1A0102	RT4101M	GIS & CAD Lab	22	45	2
15VV1A0103	RT41011	Environmental Engineering - II	27	62	3
15VV1A0103	RT41012	Prestressed Concrete	26	48	3
15VV1A0103	RT41013	Construction Technology and Management	25	46	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0103	RT41014	Water Resource Engineering - II	22	55	3
15VV1A0103	RT41015	Remote Sensing and GIS Applications	24	46	3
15VV1A0103	RT41016	Ground Improvement Techiniques	26	46	3
15VV1A0103	RT4101L	Environmental Engineering Lab	15	36	2
15VV1A0103	RT4101M	GIS & CAD Lab	22	46	2
15VV1A0104	RT41011	Environmental Engineering - II	27	66	3
15VV1A0104	RT41012	Prestressed Concrete	26	55	3
15VV1A0104	RT41013	Construction Technology and Management	25	46	3
15VV1A0104	RT41014	Water Resource Engineering - II	22	57	3
15VV1A0104	RT41015	Remote Sensing and GIS Applications	29	39	3
15VV1A0104	RT41016	Ground Improvement Techiniques	28	50	3
15VV1A0104	RT4101L	Environmental Engineering Lab	23	45	2
15VV1A0104	RT4101M	GIS & CAD Lab	24	43	2
15VV1A0105	RT41011	Environmental Engineering - II	28	54	3
15VV1A0105	RT41012	Prestressed Concrete	25	54	3
15VV1A0105	RT41013	Construction Technology and Management	25	43	3
15VV1A0105	RT41014	Water Resource Engineering - II	20	57	3
15VV1A0105	RT41015	Remote Sensing and GIS Applications	26	45	3
15VV1A0105	RT41016	Ground Improvement Techiniques	28	63	3
15VV1A0105	RT4101L	Environmental Engineering Lab	19	43	2
15VV1A0105	RT4101M	GIS & CAD Lab	22	44	2
15VV1A0106	RT41011	Environmental Engineering - II	28	68	3
15VV1A0106	RT41012	Prestressed Concrete	27	61	3
15VV1A0106	RT41013	Construction Technology and Management	24	45	3
15VV1A0106	RT41014	Water Resource Engineering - II	23	70	3
15VV1A0106	RT41015	Remote Sensing and GIS Applications	29	55	3
15VV1A0106	RT41016	Ground Improvement Techiniques	27	65	3
15VV1A0106	RT4101L	Environmental Engineering Lab	22	45	2
15VV1A0106	RT4101M	GIS & CAD Lab	24	43	2
15VV1A0107	RT41011	Environmental Engineering - II	26	52	3
15VV1A0107	RT41012	Prestressed Concrete	23	42	3
15VV1A0107	RT41013	Construction Technology and Management	27	33	3
15VV1A0107	RT41014	Water Resource Engineering - II	21	49	3
15VV1A0107	RT41015	Remote Sensing and GIS Applications	27	51	3
15VV1A0107	RT41016	Ground Improvement Techiniques	27	45	3
15VV1A0107	RT4101L	Environmental Engineering Lab	20	40	2
15VV1A0107	RT4101M	GIS & CAD Lab	23	46	2
15VV1A0109	RT41011	Environmental Engineering - II	30	64	3
15VV1A0109	RT41012	Prestressed Concrete	27	54	3
15VV1A0109	RT41013	Construction Technology and Management	28	44	3
15VV1A0109	RT41014	Water Resource Engineering - II	26	70	3
15VV1A0109	RT41015	Remote Sensing and GIS Applications	28	51	3
15VV1A0109	RT41016	Ground Improvement Techiniques	23	66	3
15VV1A0109	RT4101L	Environmental Engineering Lab	23	45	2
15VV1A0109	RT4101M	GIS & CAD Lab	24	43	2
15VV1A0110	RT41011	Environmental Engineering - II	26	36	3
15VV1A0110	RT41012	Prestressed Concrete	17	43	3
15VV1A0110	RT41013	Construction Technology and Management	21	26	3
15VV1A0110	RT41014	Water Resource Engineering - II	14	28	3
15VV1A0110	RT41015	Remote Sensing and GIS Applications	17	24	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0110	RT41016	Ground Improvement Techiniques	17	40	3
15VV1A0110	RT4101L	Environmental Engineering Lab	14	36	2
15VV1A0110	RT4101M	GIS & CAD Lab	24	45	2
15VV1A0111	RT41011	Environmental Engineering - II	29	68	3
15VV1A0111	RT41012	Prestressed Concrete	28	50	3
15VV1A0111	RT41013	Construction Technology and Management	28	44	3
15VV1A0111	RT41014	Water Resource Engineering - II	25	70	3
15VV1A0111	RT41015	Remote Sensing and GIS Applications	24	55	3
15VV1A0111	RT41016	Ground Improvement Techiniques	24	58	3
15VV1A0111	RT4101L	Environmental Engineering Lab	24	46	2
15VV1A0111	RT4101M	GIS & CAD Lab	24	45	2
15VV1A0112	RT41011	Environmental Engineering - II	26	65	3
15VV1A0112	RT41012	Prestressed Concrete	26	53	3
15VV1A0112	RT41013	Construction Technology and Management	27	47	3
15VV1A0112	RT41014	Water Resource Engineering - II	19	70	3
15VV1A0112	RT41015	Remote Sensing and GIS Applications	25	52	3
15VV1A0112	RT41016	Ground Improvement Techiniques	23	55	3
15VV1A0112	RT4101L	Environmental Engineering Lab	23	46	2
15VV1A0112	RT4101M	GIS & CAD Lab	24	44	2
15VV1A0113	RT41011	Environmental Engineering - II	26	56	3
15VV1A0113	RT41012	Prestressed Concrete	27	53	3
15VV1A0113	RT41013	Construction Technology and Management	25	48	3
15VV1A0113	RT41014	Water Resource Engineering - II	20	66	3
15VV1A0113	RT41015	Remote Sensing and GIS Applications	27	46	3
15VV1A0113	RT41016	Ground Improvement Techiniques	23	36	3
15VV1A0113	RT4101L	Environmental Engineering Lab	22	44	2
15VV1A0113	RT4101M	GIS & CAD Lab	22	45	2
15VV1A0114	RT41011	Environmental Engineering - II	30	70	3
15VV1A0114	RT41012	Prestressed Concrete	27	53	3
15VV1A0114	RT41013	Construction Technology and Management	27	53	3
15VV1A0114	RT41014	Water Resource Engineering - II	24	70	3
15VV1A0114	RT41015	Remote Sensing and GIS Applications	27	62	3
15VV1A0114	RT41016	Ground Improvement Techiniques	29	52	3
15VV1A0114	RT4101L	Environmental Engineering Lab	24	46	2
15VV1A0114	RT4101M	GIS & CAD Lab	22	45	2
15VV1A0115	RT41011	Environmental Engineering - II	29	66	3
15VV1A0115	RT41012	Prestressed Concrete	29	49	3
15VV1A0115	RT41013	Construction Technology and Management	29	50	3
15VV1A0115	RT41014	Water Resource Engineering - II	23	66	3
15VV1A0115	RT41015	Remote Sensing and GIS Applications	25	60	3
15VV1A0115	RT41016	Ground Improvement Techiniques	25	63	3
15VV1A0115	RT4101L	Environmental Engineering Lab	24	46	2
15VV1A0115	RT4101M	GIS & CAD Lab	24	43	2
15VV1A0117	RT41011	Environmental Engineering - II	24	61	3
15VV1A0117	RT41012	Prestressed Concrete	26	37	3
15VV1A0117	RT41013	Construction Technology and Management	23	29	3
15VV1A0117	RT41014	Water Resource Engineering - II	22	53	3
15VV1A0117	RT41015	Remote Sensing and GIS Applications	23	35	3
15VV1A0117	RT41016	Ground Improvement Techiniques	20	44	3
15VV1A0117	RT4101L	Environmental Engineering Lab	16	35	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0117	RT4101M	GIS & CAD Lab	22	45	2
15VV1A0119	RT41011	Environmental Engineering - II	28	60	3
15VV1A0119	RT41012	Prestressed Concrete	24	51	3
15VV1A0119	RT41013	Construction Technology and Management	25	46	3
15VV1A0119	RT41014	Water Resource Engineering - II	14	55	3
15VV1A0119	RT41015	Remote Sensing and GIS Applications	25	34	3
15VV1A0119	RT41016	Ground Improvement Techiniques	26	53	3
15VV1A0119	RT4101L	Environmental Engineering Lab	20	39	2
15VV1A0119	RT4101M	GIS & CAD Lab	22	46	2
15VV1A0120	RT41011	Environmental Engineering - II	28	68	3
15VV1A0120	RT41012	Prestressed Concrete	27	55	3
15VV1A0120	RT41013	Construction Technology and Management	27	55	3
15VV1A0120	RT41014	Water Resource Engineering - II	25	70	3
15VV1A0120	RT41015	Remote Sensing and GIS Applications	26	52	3
15VV1A0120	RT41016	Ground Improvement Techiniques	28	57	3
15VV1A0120	RT4101L	Environmental Engineering Lab	22	41	2
15VV1A0120	RT4101M	GIS & CAD Lab	23	43	2
15VV1A0121	RT41011	Environmental Engineering - II	27	43	3
15VV1A0121	RT41012	Prestressed Concrete	22	46	3
15VV1A0121	RT41013	Construction Technology and Management	23	30	3
15VV1A0121	RT41014	Water Resource Engineering - II	21	50	3
15VV1A0121	RT41015	Remote Sensing and GIS Applications	23	27	3
15VV1A0121	RT41016	Ground Improvement Techiniques	22	0	0
15VV1A0121	RT4101L	Environmental Engineering Lab	17	35	2
15VV1A0121	RT4101M	GIS & CAD Lab	22	43	2
15VV1A0122	RT41011	Environmental Engineering - II	25	44	3
15VV1A0122	RT41012	Prestressed Concrete	25	48	3
15VV1A0122	RT41013	Construction Technology and Management	24	37	3
15VV1A0122	RT41014	Water Resource Engineering - II	19	41	3
15VV1A0122	RT41015	Remote Sensing and GIS Applications	23	42	3
15VV1A0122	RT41016	Ground Improvement Techiniques	24	41	3
15VV1A0122	RT4101L	Environmental Engineering Lab	18	37	2
15VV1A0122	RT4101M	GIS & CAD Lab	22	44	2
15VV1A0123	RT41011	Environmental Engineering - II	23	62	3
15VV1A0123	RT41012	Prestressed Concrete	22	49	3
15VV1A0123	RT41013	Construction Technology and Management	25	47	3
15VV1A0123	RT41014	Water Resource Engineering - II	22	54	3
15VV1A0123	RT41015	Remote Sensing and GIS Applications	24	46	3
15VV1A0123	RT41016	Ground Improvement Techiniques	25	32	3
15VV1A0123	RT4101L	Environmental Engineering Lab	14	33	2
15VV1A0123	RT4101M	GIS & CAD Lab	21	45	2
15VV1A0124	RT41011	Environmental Engineering - II	26	69	3
15VV1A0124	RT41012	Prestressed Concrete	26	55	3
15VV1A0124	RT41013	Construction Technology and Management	24	49	3
15VV1A0124	RT41014	Water Resource Engineering - II	23	62	3
15VV1A0124	RT41015	Remote Sensing and GIS Applications	29	46	3
15VV1A0124	RT41016	Ground Improvement Techiniques	26	57	3
15VV1A0124	RT4101L	Environmental Engineering Lab	21	42	2
15VV1A0124	RT4101M	GIS & CAD Lab	24	45	2
15VV1A0125	RT41011	Environmental Engineering - II	27	70	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0125	RT41012	Prestressed Concrete	23	53	3
15VV1A0125	RT41013	Construction Technology and Management	25	52	3
15VV1A0125	RT41014	Water Resource Engineering - II	23	59	3
15VV1A0125	RT41015	Remote Sensing and GIS Applications	29	42	3
15VV1A0125	RT41016	Ground Improvement Techiniques	27	47	3
15VV1A0125	RT4101L	Environmental Engineering Lab	22	46	2
15VV1A0125	RT4101M	GIS & CAD Lab	23	46	2
15VV1A0127	RT41011	Environmental Engineering - II	28	64	3
15VV1A0127	RT41012	Prestressed Concrete	25	52	3
15VV1A0127	RT41013	Construction Technology and Management	26	43	3
15VV1A0127	RT41014	Water Resource Engineering - II	21	68	3
15VV1A0127	RT41015	Remote Sensing and GIS Applications	26	33	3
15VV1A0127	RT41016	Ground Improvement Techiniques	28	60	3
15VV1A0127	RT4101L	Environmental Engineering Lab	23	46	2
15VV1A0127	RT4101M	GIS & CAD Lab	23	45	2
15VV1A0128	RT41011	Environmental Engineering - II	29	63	3
15VV1A0128	RT41012	Prestressed Concrete	24	43	3
15VV1A0128	RT41013	Construction Technology and Management	26	53	3
15VV1A0128	RT41014	Water Resource Engineering - II	23	70	3
15VV1A0128	RT41015	Remote Sensing and GIS Applications	26	49	3
15VV1A0128	RT41016	Ground Improvement Techiniques	28	36	3
15VV1A0128	RT4101L	Environmental Engineering Lab	20	38	2
15VV1A0128	RT4101M	GIS & CAD Lab	21	45	2
15VV1A0201	RT41021	Renewable Energy Sources and Systems	25	34	3
15VV1A0201	RT41022	HVAC & DC Transmission	21	35	3
15VV1A0201	RT41023	Power System Operation & Control	21	30	3
15VV1A0201	RT41025	Instrumentation	17	53	3
15VV1A0201	RT41029	Electrical Distribution Systems	22	49	3
15VV1A0201	RT4102L	Microprocessors & Microcontrollers Lab	24	46	2
15VV1A0201	RT4102M	Electrical Simulation Lab	24	44	2
15VV1A0201	RT4102N	Power Systems Lab	21	23	2
15VV1A0203	RT41021	Renewable Energy Sources and Systems	22	40	3
15VV1A0203	RT41022	HVAC & DC Transmission	25	39	3
15VV1A0203	RT41023	Power System Operation & Control	27	42	3
15VV1A0203	RT41025	Instrumentation	21	59	3
15VV1A0203	RT41029	Electrical Distribution Systems	22	36	3
15VV1A0203	RT4102L	Microprocessors & Microcontrollers Lab	24	45	2
15VV1A0203	RT4102M	Electrical Simulation Lab	22	35	2
15VV1A0203	RT4102N	Power Systems Lab	20	27	2
15VV1A0204	RT41021	Renewable Energy Sources and Systems	26	37	3
15VV1A0204	RT41022	HVAC & DC Transmission	26	39	3
15VV1A0204	RT41023	Power System Operation & Control	25	39	3
15VV1A0204	RT41025	Instrumentation	17	53	3
15VV1A0204	RT41029	Electrical Distribution Systems	24	48	3
15VV1A0204	RT4102L	Microprocessors & Microcontrollers Lab	24	47	2
15VV1A0204	RT4102M	Electrical Simulation Lab	23	42	2
15VV1A0204	RT4102N	Power Systems Lab	22	29	2
15VV1A0205	RT41021	Renewable Energy Sources and Systems	21	43	3
15VV1A0205	RT41022	HVAC & DC Transmission	21	43	3
15VV1A0205	RT41023	Power System Operation & Control	24	40	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0205	RT41025	Instrumentation	20	55	3
15VV1A0205	RT41029	Electrical Distribution Systems	23	47	3
15VV1A0205	RT4102L	Microprocessors & Microcontrollers Lab	23	41	2
15VV1A0205	RT4102M	Electrical Simulation Lab	22	43	2
15VV1A0205	RT4102N	Power Systems Lab	21	30	2
15VV1A0206	RT41021	Renewable Energy Sources and Systems	24	33	3
15VV1A0206	RT41022	HVAC & DC Transmission	23	34	3
15VV1A0206	RT41023	Power System Operation & Control	23	25	3
15VV1A0206	RT41025	Instrumentation	16	25	3
15VV1A0206	RT41029	Electrical Distribution Systems	19	37	3
15VV1A0206	RT4102L	Microprocessors & Microcontrollers Lab	18	39	2
15VV1A0206	RT4102M	Electrical Simulation Lab	19	36	2
15VV1A0206	RT4102N	Power Systems Lab	20	18	2
15VV1A0207	RT41021	Renewable Energy Sources and Systems	27	39	3
15VV1A0207	RT41022	HVAC & DC Transmission	25	40	3
15VV1A0207	RT41023	Power System Operation & Control	25	24	3
15VV1A0207	RT41025	Instrumentation	16	38	3
15VV1A0207	RT41029	Electrical Distribution Systems	22	44	3
15VV1A0207	RT4102L	Microprocessors & Microcontrollers Lab	24	45	2
15VV1A0207	RT4102M	Electrical Simulation Lab	23	44	2
15VV1A0207	RT4102N	Power Systems Lab	20	24	2
15VV1A0209	RT41021	Renewable Energy Sources and Systems	21	53	3
15VV1A0209	RT41022	HVAC & DC Transmission	25	43	3
15VV1A0209	RT41023	Power System Operation & Control	24	43	3
15VV1A0209	RT41025	Instrumentation	20	42	3
15VV1A0209	RT41029	Electrical Distribution Systems	22	39	3
15VV1A0209	RT4102L	Microprocessors & Microcontrollers Lab	24	48	2
15VV1A0209	RT4102M	Electrical Simulation Lab	22	46	2
15VV1A0209	RT4102N	Power Systems Lab	21	39	2
15VV1A0211	RT41021	Renewable Energy Sources and Systems	21	48	3
15VV1A0211	RT41022	HVAC & DC Transmission	22	49	3
15VV1A0211	RT41023	Power System Operation & Control	21	47	3
15VV1A0211	RT41025	Instrumentation	13	45	3
15VV1A0211	RT41029	Electrical Distribution Systems	20	62	3
15VV1A0211	RT4102L	Microprocessors & Microcontrollers Lab	22	45	2
15VV1A0211	RT4102M	Electrical Simulation Lab	24	49	2
15VV1A0211	RT4102N	Power Systems Lab	22	21	2
15VV1A0212	RT41021	Renewable Energy Sources and Systems	29	43	3
15VV1A0212	RT41022	HVAC & DC Transmission	23	46	3
15VV1A0212	RT41023	Power System Operation & Control	27	47	3
15VV1A0212	RT41025	Instrumentation	23	60	3
15VV1A0212	RT41029	Electrical Distribution Systems	24	54	3
15VV1A0212	RT4102L	Microprocessors & Microcontrollers Lab	23	44	2
15VV1A0212	RT4102M	Electrical Simulation Lab	25	49	2
15VV1A0212	RT4102N	Power Systems Lab	23	43	2
15VV1A0213	RT41021	Renewable Energy Sources and Systems	26	46	3
15VV1A0213	RT41022	HVAC & DC Transmission	26	51	3
15VV1A0213	RT41023	Power System Operation & Control	23	27	3
15VV1A0213	RT41025	Instrumentation	22	57	3
15VV1A0213	RT41029	Electrical Distribution Systems	22	36	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0213	RT4102L	Microprocessors & Microcontrollers Lab	23	44	2
15VV1A0213	RT4102M	Electrical Simulation Lab	20	35	2
15VV1A0213	RT4102N	Power Systems Lab	20	26	2
15VV1A0214	RT41021	Renewable Energy Sources and Systems	27	34	3
15VV1A0214	RT41022	HVAC & DC Transmission	26	40	3
15VV1A0214	RT41023	Power System Operation & Control	28	39	3
15VV1A0214	RT41025	Instrumentation	20	54	3
15VV1A0214	RT41029	Electrical Distribution Systems	26	46	3
15VV1A0214	RT4102L	Microprocessors & Microcontrollers Lab	24	46	2
15VV1A0214	RT4102M	Electrical Simulation Lab	22	41	2
15VV1A0214	RT4102N	Power Systems Lab	21	32	2
15VV1A0216	RT41021	Renewable Energy Sources and Systems	28	36	3
15VV1A0216	RT41022	HVAC & DC Transmission	24	45	3
15VV1A0216	RT41023	Power System Operation & Control	27	37	3
15VV1A0216	RT41025	Instrumentation	21	42	3
15VV1A0216	RT41029	Electrical Distribution Systems	21	49	3
15VV1A0216	RT4102L	Microprocessors & Microcontrollers Lab	25	45	2
15VV1A0216	RT4102M	Electrical Simulation Lab	24	44	2
15VV1A0216	RT4102N	Power Systems Lab	23	35	2
15VV1A0217	RT41021	Renewable Energy Sources and Systems	23	34	3
15VV1A0217	RT41022	HVAC & DC Transmission	21	39	3
15VV1A0217	RT41023	Power System Operation & Control	27	34	3
15VV1A0217	RT41025	Instrumentation	18	31	3
15VV1A0217	RT41029	Electrical Distribution Systems	22	38	3
15VV1A0217	RT4102L	Microprocessors & Microcontrollers Lab	22	44	2
15VV1A0217	RT4102M	Electrical Simulation Lab	22	38	2
15VV1A0217	RT4102N	Power Systems Lab	20	20	2
15VV1A0218	RT41021	Renewable Energy Sources and Systems	23	40	3
15VV1A0218	RT41022	HVAC & DC Transmission	26	43	3
15VV1A0218	RT41023	Power System Operation & Control	26	42	3
15VV1A0218	RT41025	Instrumentation	17	36	3
15VV1A0218	RT41029	Electrical Distribution Systems	22	33	3
15VV1A0218	RT4102L	Microprocessors & Microcontrollers Lab	18	45	2
15VV1A0218	RT4102M	Electrical Simulation Lab	25	49	2
15VV1A0218	RT4102N	Power Systems Lab	20	29	2
15VV1A0219	RT41021	Renewable Energy Sources and Systems	20	41	3
15VV1A0219	RT41022	HVAC & DC Transmission	20	41	3
15VV1A0219	RT41023	Power System Operation & Control	26	24	3
15VV1A0219	RT41025	Instrumentation	12	39	3
15VV1A0219	RT41029	Electrical Distribution Systems	23	49	3
15VV1A0219	RT4102L	Microprocessors & Microcontrollers Lab	24	47	2
15VV1A0219	RT4102M	Electrical Simulation Lab	21	45	2
15VV1A0219	RT4102N	Power Systems Lab	22	30	2
15VV1A0220	RT41021	Renewable Energy Sources and Systems	22	41	3
15VV1A0220	RT41022	HVAC & DC Transmission	18	29	3
15VV1A0220	RT41023	Power System Operation & Control	23	24	3
15VV1A0220	RT41025	Instrumentation	15	49	3
15VV1A0220	RT41029	Electrical Distribution Systems	10	44	3
15VV1A0220	RT4102L	Microprocessors & Microcontrollers Lab	23	44	2
15VV1A0220	RT4102M	Electrical Simulation Lab	22	34	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0220	RT4102N	Power Systems Lab	21	27	2
15VV1A0221	RT41021	Renewable Energy Sources and Systems	24	46	3
15VV1A0221	RT41022	HVAC & DC Transmission	22	45	3
15VV1A0221	RT41023	Power System Operation & Control	25	44	3
15VV1A0221	RT41025	Instrumentation	16	63	3
15VV1A0221	RT41029	Electrical Distribution Systems	23	46	3
15VV1A0221	RT4102L	Microprocessors & Microcontrollers Lab	24	46	2
15VV1A0221	RT4102M	Electrical Simulation Lab	22	37	2
15VV1A0221	RT4102N	Power Systems Lab	21	20	2
15VV1A0222	RT41021	Renewable Energy Sources and Systems	28	50	3
15VV1A0222	RT41022	HVAC & DC Transmission	25	44	3
15VV1A0222	RT41023	Power System Operation & Control	27	29	3
15VV1A0222	RT41025	Instrumentation	22	37	3
15VV1A0222	RT41029	Electrical Distribution Systems	23	50	3
15VV1A0222	RT4102L	Microprocessors & Microcontrollers Lab	24	45	2
15VV1A0222	RT4102M	Electrical Simulation Lab	23	45	2
15VV1A0222	RT4102N	Power Systems Lab	21	25	2
15VV1A0223	RT41021	Renewable Energy Sources and Systems	17	30	3
15VV1A0223	RT41022	HVAC & DC Transmission	25	35	3
15VV1A0223	RT41023	Power System Operation & Control	22	27	3
15VV1A0223	RT41025	Instrumentation	13	27	3
15VV1A0223	RT41029	Electrical Distribution Systems	19	26	3
15VV1A0223	RT4102L	Microprocessors & Microcontrollers Lab	22	42	2
15VV1A0223	RT4102M	Electrical Simulation Lab	19	25	2
15VV1A0223	RT4102N	Power Systems Lab	19	18	2
15VV1A0224	RT41021	Renewable Energy Sources and Systems	26	43	3
15VV1A0224	RT41022	HVAC & DC Transmission	25	45	3
15VV1A0224	RT41023	Power System Operation & Control	24	34	3
15VV1A0224	RT41025	Instrumentation	21	48	3
15VV1A0224	RT41029	Electrical Distribution Systems	25	49	3
15VV1A0224	RT4102L	Microprocessors & Microcontrollers Lab	24	45	2
15VV1A0224	RT4102M	Electrical Simulation Lab	22	39	2
15VV1A0224	RT4102N	Power Systems Lab	22	24	2
15VV1A0225	RT41021	Renewable Energy Sources and Systems	18	35	3
15VV1A0225	RT41022	HVAC & DC Transmission	23	40	3
15VV1A0225	RT41023	Power System Operation & Control	20	34	3
15VV1A0225	RT41025	Instrumentation	15	39	3
15VV1A0225	RT41029	Electrical Distribution Systems	21	43	3
15VV1A0225	RT4102L	Microprocessors & Microcontrollers Lab	18	38	2
15VV1A0225	RT4102M	Electrical Simulation Lab	22	40	2
15VV1A0225	RT4102N	Power Systems Lab	20	23	2
15VV1A0227	RT41021	Renewable Energy Sources and Systems	22	47	3
15VV1A0227	RT41022	HVAC & DC Transmission	22	42	3
15VV1A0227	RT41023	Power System Operation & Control	21	38	3
15VV1A0227	RT41025	Instrumentation	18	36	3
15VV1A0227	RT41029	Electrical Distribution Systems	16	47	3
15VV1A0227	RT4102L	Microprocessors & Microcontrollers Lab	18	38	2
15VV1A0227	RT4102M	Electrical Simulation Lab	20	32	2
15VV1A0227	RT4102N	Power Systems Lab	19	25	2
15VV1A0228	RT41021	Renewable Energy Sources and Systems	18	38	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0228	RT41022	HVAC & DC Transmission	14	37	3
15VV1A0228	RT41023	Power System Operation & Control	12	11	0
15VV1A0228	RT41025	Instrumentation	6	21	0
15VV1A0228	RT41029	Electrical Distribution Systems	19	34	3
15VV1A0228	RT4102L	Microprocessors & Microcontrollers Lab	2	-1	0
15VV1A0228	RT4102M	Electrical Simulation Lab	18	26	2
15VV1A0228	RT4102N	Power Systems Lab	18	0	0
15VV1A0229	RT41021	Renewable Energy Sources and Systems	25	42	3
15VV1A0229	RT41022	HVAC & DC Transmission	22	51	3
15VV1A0229	RT41023	Power System Operation & Control	25	41	3
15VV1A0229	RT41025	Instrumentation	14	45	3
15VV1A0229	RT41029	Electrical Distribution Systems	24	44	3
15VV1A0229	RT4102L	Microprocessors & Microcontrollers Lab	23	43	2
15VV1A0229	RT4102M	Electrical Simulation Lab	22	40	2
15VV1A0229	RT4102N	Power Systems Lab	22	18	2
15VV1A0231	RT41021	Renewable Energy Sources and Systems	23	33	3
15VV1A0231	RT41022	HVAC & DC Transmission	27	47	3
15VV1A0231	RT41023	Power System Operation & Control	22	31	3
15VV1A0231	RT41025	Instrumentation	13	51	3
15VV1A0231	RT41029	Electrical Distribution Systems	19	37	3
15VV1A0231	RT4102L	Microprocessors & Microcontrollers Lab	18	37	2
15VV1A0231	RT4102M	Electrical Simulation Lab	19	30	2
15VV1A0231	RT4102N	Power Systems Lab	21	9	0
15VV1A0232	RT41021	Renewable Energy Sources and Systems	25	33	3
15VV1A0232	RT41022	HVAC & DC Transmission	23	38	3
15VV1A0232	RT41023	Power System Operation & Control	22	24	3
15VV1A0232	RT41025	Instrumentation	17	58	3
15VV1A0232	RT41029	Electrical Distribution Systems	22	48	3
15VV1A0232	RT4102L	Microprocessors & Microcontrollers Lab	24	42	2
15VV1A0232	RT4102M	Electrical Simulation Lab	22	39	2
15VV1A0232	RT4102N	Power Systems Lab	20	44	2
15VV1A0233	RT41021	Renewable Energy Sources and Systems	23	36	3
15VV1A0233	RT41022	HVAC & DC Transmission	23	43	3
15VV1A0233	RT41023	Power System Operation & Control	24	39	3
15VV1A0233	RT41025	Instrumentation	21	63	3
15VV1A0233	RT41029	Electrical Distribution Systems	21	49	3
15VV1A0233	RT4102L	Microprocessors & Microcontrollers Lab	25	47	2
15VV1A0233	RT4102M	Electrical Simulation Lab	22	37	2
15VV1A0233	RT4102N	Power Systems Lab	21	43	2
15VV1A0234	RT41021	Renewable Energy Sources and Systems	25	38	3
15VV1A0234	RT41022	HVAC & DC Transmission	23	39	3
15VV1A0234	RT41023	Power System Operation & Control	23	34	3
15VV1A0234	RT41025	Instrumentation	22	49	3
15VV1A0234	RT41029	Electrical Distribution Systems	23	48	3
15VV1A0234	RT4102L	Microprocessors & Microcontrollers Lab	23	43	2
15VV1A0234	RT4102M	Electrical Simulation Lab	22	48	2
15VV1A0234	RT4102N	Power Systems Lab	21	40	2
15VV1A0235	RT41021	Renewable Energy Sources and Systems	28	48	3
15VV1A0235	RT41022	HVAC & DC Transmission	27	49	3
15VV1A0235	RT41023	Power System Operation & Control	26	48	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0235	RT41025	Instrumentation	22	58	3
15VV1A0235	RT41029	Electrical Distribution Systems	25	38	3
15VV1A0235	RT4102L	Microprocessors & Microcontrollers Lab	25	47	2
15VV1A0235	RT4102M	Electrical Simulation Lab	24	49	2
15VV1A0235	RT4102N	Power Systems Lab	22	40	2
15VV1A0236	RT41021	Renewable Energy Sources and Systems	16	37	3
15VV1A0236	RT41022	HVAC & DC Transmission	22	45	3
15VV1A0236	RT41023	Power System Operation & Control	26	27	3
15VV1A0236	RT41025	Instrumentation	19	27	3
15VV1A0236	RT41029	Electrical Distribution Systems	23	47	3
15VV1A0236	RT4102L	Microprocessors & Microcontrollers Lab	24	44	2
15VV1A0236	RT4102M	Electrical Simulation Lab	21	30	2
15VV1A0236	RT4102N	Power Systems Lab	20	27	2
15VV1A0237	RT41021	Renewable Energy Sources and Systems	25	45	3
15VV1A0237	RT41022	HVAC & DC Transmission	22	50	3
15VV1A0237	RT41023	Power System Operation & Control	25	31	3
15VV1A0237	RT41025	Instrumentation	19	46	3
15VV1A0237	RT41029	Electrical Distribution Systems	20	62	3
15VV1A0237	RT4102L	Microprocessors & Microcontrollers Lab	18	30	2
15VV1A0237	RT4102M	Electrical Simulation Lab	22	34	2
15VV1A0237	RT4102N	Power Systems Lab	19	3	0
15VV1A0238	RT41021	Renewable Energy Sources and Systems	26	43	3
15VV1A0238	RT41022	HVAC & DC Transmission	26	44	3
15VV1A0238	RT41023	Power System Operation & Control	26	44	3
15VV1A0238	RT41025	Instrumentation	21	54	3
15VV1A0238	RT41029	Electrical Distribution Systems	22	39	3
15VV1A0238	RT4102L	Microprocessors & Microcontrollers Lab	24	44	2
15VV1A0238	RT4102M	Electrical Simulation Lab	22	44	2
15VV1A0238	RT4102N	Power Systems Lab	21	27	2
15VV1A0239	RT41021	Renewable Energy Sources and Systems	28	46	3
15VV1A0239	RT41022	HVAC & DC Transmission	26	51	3
15VV1A0239	RT41023	Power System Operation & Control	26	27	3
15VV1A0239	RT41025	Instrumentation	21	47	3
15VV1A0239	RT41029	Electrical Distribution Systems	24	42	3
15VV1A0239	RT4102L	Microprocessors & Microcontrollers Lab	25	47	2
15VV1A0239	RT4102M	Electrical Simulation Lab	22	47	2
15VV1A0239	RT4102N	Power Systems Lab	21	46	2
15VV1A0240	RT41021	Renewable Energy Sources and Systems	26	33	3
15VV1A0240	RT41022	HVAC & DC Transmission	28	35	3
15VV1A0240	RT41023	Power System Operation & Control	24	30	3
15VV1A0240	RT41025	Instrumentation	17	36	3
15VV1A0240	RT41029	Electrical Distribution Systems	24	40	3
15VV1A0240	RT4102L	Microprocessors & Microcontrollers Lab	21	42	2
15VV1A0240	RT4102M	Electrical Simulation Lab	21	44	2
15VV1A0240	RT4102N	Power Systems Lab	21	37	2
15VV1A0242	RT41021	Renewable Energy Sources and Systems	18	34	3
15VV1A0242	RT41022	HVAC & DC Transmission	25	35	3
15VV1A0242	RT41023	Power System Operation & Control	23	26	3
15VV1A0242	RT41025	Instrumentation	15	39	3
15VV1A0242	RT41029	Electrical Distribution Systems	21	43	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0242	RT4102L	Microprocessors & Microcontrollers Lab	23	45	2
15VV1A0242	RT4102M	Electrical Simulation Lab	21	36	2
15VV1A0242	RT4102N	Power Systems Lab	18	37	2
15VV1A0243	RT41021	Renewable Energy Sources and Systems	22	37	3
15VV1A0243	RT41022	HVAC & DC Transmission	24	43	3
15VV1A0243	RT41023	Power System Operation & Control	22	27	3
15VV1A0243	RT41025	Instrumentation	21	41	3
15VV1A0243	RT41029	Electrical Distribution Systems	20	32	3
15VV1A0243	RT4102L	Microprocessors & Microcontrollers Lab	18	38	2
15VV1A0243	RT4102M	Electrical Simulation Lab	18	29	2
15VV1A0243	RT4102N	Power Systems Lab	20	39	2
15VV1A0244	RT41021	Renewable Energy Sources and Systems	29	43	3
15VV1A0244	RT41022	HVAC & DC Transmission	28	43	3
15VV1A0244	RT41023	Power System Operation & Control	29	50	3
15VV1A0244	RT41025	Instrumentation	27	56	3
15VV1A0244	RT41029	Electrical Distribution Systems	25	56	3
15VV1A0244	RT4102L	Microprocessors & Microcontrollers Lab	25	46	2
15VV1A0244	RT4102M	Electrical Simulation Lab	24	49	2
15VV1A0244	RT4102N	Power Systems Lab	23	38	2
15VV1A0246	RT41021	Renewable Energy Sources and Systems	26	-1	0
15VV1A0246	RT41022	HVAC & DC Transmission	24	42	3
15VV1A0246	RT41023	Power System Operation & Control	25	29	3
15VV1A0246	RT41025	Instrumentation	14	51	3
15VV1A0246	RT41029	Electrical Distribution Systems	13	49	3
15VV1A0246	RT4102L	Microprocessors & Microcontrollers Lab	24	47	2
15VV1A0246	RT4102M	Electrical Simulation Lab	19	-1	0
15VV1A0246	RT4102N	Power Systems Lab	19	-1	0
15VV1A0247	RT41021	Renewable Energy Sources and Systems	24	46	3
15VV1A0247	RT41022	HVAC & DC Transmission	23	29	3
15VV1A0247	RT41023	Power System Operation & Control	22	27	3
15VV1A0247	RT41025	Instrumentation	14	26	3
15VV1A0247	RT41029	Electrical Distribution Systems	20	45	3
15VV1A0247	RT4102L	Microprocessors & Microcontrollers Lab	24	44	2
15VV1A0247	RT4102M	Electrical Simulation Lab	22	42	2
15VV1A0247	RT4102N	Power Systems Lab	20	21	2
15VV1A0248	RT41021	Renewable Energy Sources and Systems	19	40	3
15VV1A0248	RT41022	HVAC & DC Transmission	22	31	3
15VV1A0248	RT41023	Power System Operation & Control	16	11	0
15VV1A0248	RT41025	Instrumentation	17	35	3
15VV1A0248	RT41029	Electrical Distribution Systems	21	29	3
15VV1A0248	RT4102L	Microprocessors & Microcontrollers Lab	18	38	2
15VV1A0248	RT4102M	Electrical Simulation Lab	19	27	2
15VV1A0248	RT4102N	Power Systems Lab	20	7	0
15VV1A0249	RT41021	Renewable Energy Sources and Systems	26	39	3
15VV1A0249	RT41022	HVAC & DC Transmission	25	44	3
15VV1A0249	RT41023	Power System Operation & Control	26	39	3
15VV1A0249	RT41025	Instrumentation	20	45	3
15VV1A0249	RT41029	Electrical Distribution Systems	23	50	3
15VV1A0249	RT4102L	Microprocessors & Microcontrollers Lab	20	41	2
15VV1A0249	RT4102M	Electrical Simulation Lab	19	36	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0249	RT4102N	Power Systems Lab	20	7	0
15VV1A0250	RT41021	Renewable Energy Sources and Systems	22	43	3
15VV1A0250	RT41022	HVAC & DC Transmission	23	41	3
15VV1A0250	RT41023	Power System Operation & Control	18	41	3
15VV1A0250	RT41025	Instrumentation	11	19	0
15VV1A0250	RT41029	Electrical Distribution Systems	18	28	3
15VV1A0250	RT4102L	Microprocessors & Microcontrollers Lab	19	40	2
15VV1A0250	RT4102M	Electrical Simulation Lab	18	40	2
15VV1A0250	RT4102N	Power Systems Lab	20	21	2
15VV1A0301	RT41031	Automobile Engineering	21	36	3
15VV1A0301	RT41032	CAD/CAM	24	40	3
15VV1A0301	RT41033	Finite Element Methods	21	24	3
15VV1A0301	RT41034	Unconventional Machining Processes	18	34	3
15VV1A0301	RT41035	Micro Electro Mechanical Systems	25	44	3
15VV1A0301	RT41039	Automation in Manufacturing	21	51	3
15VV1A0301	RT4103L	Simulation Lab	23	46	2
15VV1A0301	RT4103M	Design/Fabrication Project	45	0	1
15VV1A0302	RT41031	Automobile Engineering	23	36	3
15VV1A0302	RT41032	CAD/CAM	25	35	3
15VV1A0302	RT41033	Finite Element Methods	19	40	3
15VV1A0302	RT41034	Unconventional Machining Processes	19	33	3
15VV1A0302	RT41035	Micro Electro Mechanical Systems	23	47	3
15VV1A0302	RT41039	Automation in Manufacturing	23	49	3
15VV1A0302	RT4103L	Simulation Lab	22	45	2
15VV1A0302	RT4103M	Design/Fabrication Project	46	0	1
15VV1A0303	RT41031	Automobile Engineering	26	50	3
15VV1A0303	RT41032	CAD/CAM	28	45	3
15VV1A0303	RT41033	Finite Element Methods	26	52	3
15VV1A0303	RT41034	Unconventional Machining Processes	25	59	3
15VV1A0303	RT41035	Micro Electro Mechanical Systems	28	56	3
15VV1A0303	RT41039	Automation in Manufacturing	23	58	3
15VV1A0303	RT4103L	Simulation Lab	24	49	2
15VV1A0303	RT4103M	Design/Fabrication Project	49	0	1
15VV1A0304	RT41031	Automobile Engineering	25	41	3
15VV1A0304	RT41032	CAD/CAM	29	51	3
15VV1A0304	RT41033	Finite Element Methods	29	39	3
15VV1A0304	RT41034	Unconventional Machining Processes	24	48	3
15VV1A0304	RT41035	Micro Electro Mechanical Systems	28	51	3
15VV1A0304	RT41039	Automation in Manufacturing	29	53	3
15VV1A0304	RT4103L	Simulation Lab	24	49	2
15VV1A0304	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0305	RT41031	Automobile Engineering	23	44	3
15VV1A0305	RT41032	CAD/CAM	26	41	3
15VV1A0305	RT41033	Finite Element Methods	26	32	3
15VV1A0305	RT41034	Unconventional Machining Processes	22	48	3
15VV1A0305	RT41035	Micro Electro Mechanical Systems	28	46	3
15VV1A0305	RT41039	Automation in Manufacturing	25	49	3
15VV1A0305	RT4103L	Simulation Lab	24	48	2
15VV1A0305	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0307	RT41031	Automobile Engineering	25	51	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0307	RT41032	CAD/CAM	28	43	3
15VV1A0307	RT41033	Finite Element Methods	27	41	3
15VV1A0307	RT41034	Unconventional Machining Processes	25	48	3
15VV1A0307	RT41035	Micro Electro Mechanical Systems	28	48	3
15VV1A0307	RT41039	Automation in Manufacturing	27	52	3
15VV1A0307	RT4103L	Simulation Lab	24	49	2
15VV1A0307	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0308	RT41031	Automobile Engineering	23	40	3
15VV1A0308	RT41032	CAD/CAM	20	50	3
15VV1A0308	RT41033	Finite Element Methods	24	45	3
15VV1A0308	RT41034	Unconventional Machining Processes	25	53	3
15VV1A0308	RT41035	Micro Electro Mechanical Systems	27	52	3
15VV1A0308	RT41039	Automation in Manufacturing	27	51	3
15VV1A0308	RT4103L	Simulation Lab	24	45	2
15VV1A0308	RT4103M	Design/Fabrication Project	44	0	1
15VV1A0309	RT41031	Automobile Engineering	25	38	3
15VV1A0309	RT41032	CAD/CAM	25	48	3
15VV1A0309	RT41033	Finite Element Methods	23	36	3
15VV1A0309	RT41034	Unconventional Machining Processes	23	33	3
15VV1A0309	RT41035	Micro Electro Mechanical Systems	25	49	3
15VV1A0309	RT41039	Automation in Manufacturing	22	44	3
15VV1A0309	RT4103L	Simulation Lab	23	49	2
15VV1A0309	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0310	RT41031	Automobile Engineering	26	53	3
15VV1A0310	RT41032	CAD/CAM	27	57	3
15VV1A0310	RT41033	Finite Element Methods	28	54	3
15VV1A0310	RT41034	Unconventional Machining Processes	26	58	3
15VV1A0310	RT41035	Micro Electro Mechanical Systems	28	53	3
15VV1A0310	RT41039	Automation in Manufacturing	28	42	3
15VV1A0310	RT4103L	Simulation Lab	24	49	2
15VV1A0310	RT4103M	Design/Fabrication Project	49	0	1
15VV1A0311	RT41031	Automobile Engineering	27	44	3
15VV1A0311	RT41032	CAD/CAM	28	50	3
15VV1A0311	RT41033	Finite Element Methods	24	42	3
15VV1A0311	RT41034	Unconventional Machining Processes	24	48	3
15VV1A0311	RT41035	Micro Electro Mechanical Systems	28	52	3
15VV1A0311	RT41039	Automation in Manufacturing	27	49	3
15VV1A0311	RT4103L	Simulation Lab	24	48	2
15VV1A0311	RT4103M	Design/Fabrication Project	47	0	1
15VV1A0312	RT41031	Automobile Engineering	25	42	3
15VV1A0312	RT41032	CAD/CAM	28	39	3
15VV1A0312	RT41033	Finite Element Methods	21	49	3
15VV1A0312	RT41034	Unconventional Machining Processes	25	49	3
15VV1A0312	RT41035	Micro Electro Mechanical Systems	25	47	3
15VV1A0312	RT41039	Automation in Manufacturing	23	56	3
15VV1A0312	RT4103L	Simulation Lab	24	47	2
15VV1A0312	RT4103M	Design/Fabrication Project	49	0	1
15VV1A0313	RT41031	Automobile Engineering	25	48	3
15VV1A0313	RT41032	CAD/CAM	28	46	3
15VV1A0313	RT41033	Finite Element Methods	29	50	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0313	RT41034	Unconventional Machining Processes	23	52	3
15VV1A0313	RT41035	Micro Electro Mechanical Systems	28	49	3
15VV1A0313	RT41039	Automation in Manufacturing	26	54	3
15VV1A0313	RT4103L	Simulation Lab	24	49	2
15VV1A0313	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0314	RT41031	Automobile Engineering	24	54	3
15VV1A0314	RT41032	CAD/CAM	28	50	3
15VV1A0314	RT41033	Finite Element Methods	30	47	3
15VV1A0314	RT41034	Unconventional Machining Processes	23	57	3
15VV1A0314	RT41035	Micro Electro Mechanical Systems	28	52	3
15VV1A0314	RT41039	Automation in Manufacturing	27	52	3
15VV1A0314	RT4103L	Simulation Lab	23	49	2
15VV1A0314	RT4103M	Design/Fabrication Project	46	0	1
15VV1A0315	RT41031	Automobile Engineering	18	18	0
15VV1A0315	RT41032	CAD/CAM	27	12	0
15VV1A0315	RT41033	Finite Element Methods	19	8	0
15VV1A0315	RT41034	Unconventional Machining Processes	20	24	3
15VV1A0315	RT41035	Micro Electro Mechanical Systems	22	32	3
15VV1A0315	RT41039	Automation in Manufacturing	22	38	3
15VV1A0315	RT4103L	Simulation Lab	21	42	2
15VV1A0315	RT4103M	Design/Fabrication Project	44	0	1
15VV1A0316	RT41031	Automobile Engineering	23	47	3
15VV1A0316	RT41032	CAD/CAM	29	47	3
15VV1A0316	RT41033	Finite Element Methods	27	50	3
15VV1A0316	RT41034	Unconventional Machining Processes	23	49	3
15VV1A0316	RT41035	Micro Electro Mechanical Systems	28	51	3
15VV1A0316	RT41039	Automation in Manufacturing	29	48	3
15VV1A0316	RT4103L	Simulation Lab	24	49	2
15VV1A0316	RT4103M	Design/Fabrication Project	47	0	1
15VV1A0317	RT41031	Automobile Engineering	26	51	3
15VV1A0317	RT41032	CAD/CAM	29	52	3
15VV1A0317	RT41033	Finite Element Methods	28	46	3
15VV1A0317	RT41034	Unconventional Machining Processes	26	56	3
15VV1A0317	RT41035	Micro Electro Mechanical Systems	26	48	3
15VV1A0317	RT41039	Automation in Manufacturing	30	52	3
15VV1A0317	RT4103L	Simulation Lab	24	49	2
15VV1A0317	RT4103M	Design/Fabrication Project	49	0	1
15VV1A0319	RT41031	Automobile Engineering	23	45	3
15VV1A0319	RT41032	CAD/CAM	27	42	3
15VV1A0319	RT41033	Finite Element Methods	22	36	3
15VV1A0319	RT41034	Unconventional Machining Processes	19	47	3
15VV1A0319	RT41035	Micro Electro Mechanical Systems	26	41	3
15VV1A0319	RT41039	Automation in Manufacturing	25	53	3
15VV1A0319	RT4103L	Simulation Lab	23	48	2
15VV1A0319	RT4103M	Design/Fabrication Project	49	0	1
15VV1A0320	RT41031	Automobile Engineering	24	30	3
15VV1A0320	RT41032	CAD/CAM	23	39	3
15VV1A0320	RT41033	Finite Element Methods	23	37	3
15VV1A0320	RT41034	Unconventional Machining Processes	21	55	3
15VV1A0320	RT41035	Micro Electro Mechanical Systems	24	50	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0320	RT41039	Automation in Manufacturing	27	56	3
15VV1A0320	RT4103L	Simulation Lab	23	48	2
15VV1A0320	RT4103M	Design/Fabrication Project	45	0	1
15VV1A0322	RT41031	Automobile Engineering	23	38	3
15VV1A0322	RT41032	CAD/CAM	23	52	3
15VV1A0322	RT41033	Finite Element Methods	26	34	3
15VV1A0322	RT41034	Unconventional Machining Processes	21	43	3
15VV1A0322	RT41035	Micro Electro Mechanical Systems	28	43	3
15VV1A0322	RT41039	Automation in Manufacturing	26	48	3
15VV1A0322	RT4103L	Simulation Lab	24	48	2
15VV1A0322	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0323	RT41031	Automobile Engineering	24	37	3
15VV1A0323	RT41032	CAD/CAM	27	40	3
15VV1A0323	RT41033	Finite Element Methods	18	24	3
15VV1A0323	RT41034	Unconventional Machining Processes	22	44	3
15VV1A0323	RT41035	Micro Electro Mechanical Systems	28	51	3
15VV1A0323	RT41039	Automation in Manufacturing	26	54	3
15VV1A0323	RT4103L	Simulation Lab	24	48	2
15VV1A0323	RT4103M	Design/Fabrication Project	47	0	1
15VV1A0324	RT41031	Automobile Engineering	23	45	3
15VV1A0324	RT41032	CAD/CAM	24	47	3
15VV1A0324	RT41033	Finite Element Methods	26	34	3
15VV1A0324	RT41034	Unconventional Machining Processes	22	50	3
15VV1A0324	RT41035	Micro Electro Mechanical Systems	28	46	3
15VV1A0324	RT41039	Automation in Manufacturing	25	49	3
15VV1A0324	RT4103L	Simulation Lab	23	47	2
15VV1A0324	RT4103M	Design/Fabrication Project	46	0	1
15VV1A0325	RT41031	Automobile Engineering	23	50	3
15VV1A0325	RT41032	CAD/CAM	29	42	3
15VV1A0325	RT41033	Finite Element Methods	23	36	3
15VV1A0325	RT41034	Unconventional Machining Processes	25	55	3
15VV1A0325	RT41035	Micro Electro Mechanical Systems	26	52	3
15VV1A0325	RT41039	Automation in Manufacturing	23	47	3
15VV1A0325	RT4103L	Simulation Lab	23	46	2
15VV1A0325	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0326	RT41031	Automobile Engineering	22	48	3
15VV1A0326	RT41032	CAD/CAM	28	50	3
15VV1A0326	RT41033	Finite Element Methods	25	42	3
15VV1A0326	RT41034	Unconventional Machining Processes	18	52	3
15VV1A0326	RT41035	Micro Electro Mechanical Systems	27	49	3
15VV1A0326	RT41039	Automation in Manufacturing	25	53	3
15VV1A0326	RT4103L	Simulation Lab	24	47	2
15VV1A0326	RT4103M	Design/Fabrication Project	45	0	1
15VV1A0327	RT41031	Automobile Engineering	24	49	3
15VV1A0327	RT41032	CAD/CAM	28	45	3
15VV1A0327	RT41033	Finite Element Methods	25	44	3
15VV1A0327	RT41034	Unconventional Machining Processes	24	50	3
15VV1A0327	RT41035	Micro Electro Mechanical Systems	27	50	3
15VV1A0327	RT41039	Automation in Manufacturing	24	54	3
15VV1A0327	RT4103L	Simulation Lab	24	48	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0327	RT4103M	Design/Fabrication Project	49	0	1
15VV1A0329	RT41031	Automobile Engineering	25	45	3
15VV1A0329	RT41032	CAD/CAM	29	48	3
15VV1A0329	RT41033	Finite Element Methods	27	49	3
15VV1A0329	RT41034	Unconventional Machining Processes	25	46	3
15VV1A0329	RT41035	Micro Electro Mechanical Systems	28	54	3
15VV1A0329	RT41039	Automation in Manufacturing	25	56	3
15VV1A0329	RT4103L	Simulation Lab	24	49	2
15VV1A0329	RT4103M	Design/Fabrication Project	46	0	1
15VV1A0330	RT41031	Automobile Engineering	25	44	3
15VV1A0330	RT41032	CAD/CAM	26	49	3
15VV1A0330	RT41033	Finite Element Methods	24	45	3
15VV1A0330	RT41034	Unconventional Machining Processes	24	44	3
15VV1A0330	RT41035	Micro Electro Mechanical Systems	28	54	3
15VV1A0330	RT41039	Automation in Manufacturing	26	52	3
15VV1A0330	RT4103L	Simulation Lab	24	49	2
15VV1A0330	RT4103M	Design/Fabrication Project	49	0	1
15VV1A0331	RT41031	Automobile Engineering	24	44	3
15VV1A0331	RT41032	CAD/CAM	27	50	3
15VV1A0331	RT41033	Finite Element Methods	27	34	3
15VV1A0331	RT41034	Unconventional Machining Processes	21	42	3
15VV1A0331	RT41035	Micro Electro Mechanical Systems	28	49	3
15VV1A0331	RT41039	Automation in Manufacturing	25	53	3
15VV1A0331	RT4103L	Simulation Lab	24	47	2
15VV1A0331	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0332	RT41031	Automobile Engineering	25	51	3
15VV1A0332	RT41032	CAD/CAM	28	51	3
15VV1A0332	RT41033	Finite Element Methods	25	47	3
15VV1A0332	RT41034	Unconventional Machining Processes	24	54	3
15VV1A0332	RT41035	Micro Electro Mechanical Systems	28	50	3
15VV1A0332	RT41039	Automation in Manufacturing	27	53	3
15VV1A0332	RT4103L	Simulation Lab	24	49	2
15VV1A0332	RT4103M	Design/Fabrication Project	49	0	1
15VV1A0333	RT41031	Automobile Engineering	22	45	3
15VV1A0333	RT41032	CAD/CAM	28	54	3
15VV1A0333	RT41033	Finite Element Methods	27	52	3
15VV1A0333	RT41034	Unconventional Machining Processes	25	51	3
15VV1A0333	RT41035	Micro Electro Mechanical Systems	27	44	3
15VV1A0333	RT41039	Automation in Manufacturing	23	48	3
15VV1A0333	RT4103L	Simulation Lab	24	48	2
15VV1A0333	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0334	RT41031	Automobile Engineering	27	46	3
15VV1A0334	RT41032	CAD/CAM	29	59	3
15VV1A0334	RT41033	Finite Element Methods	24	50	3
15VV1A0334	RT41034	Unconventional Machining Processes	27	55	3
15VV1A0334	RT41035	Micro Electro Mechanical Systems	27	53	3
15VV1A0334	RT41039	Automation in Manufacturing	24	56	3
15VV1A0334	RT4103L	Simulation Lab	24	48	2
15VV1A0334	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0335	RT41031	Automobile Engineering	23	36	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0335	RT41032	CAD/CAM	26	43	3
15VV1A0335	RT41033	Finite Element Methods	26	37	3
15VV1A0335	RT41034	Unconventional Machining Processes	26	40	3
15VV1A0335	RT41035	Micro Electro Mechanical Systems	27	48	3
15VV1A0335	RT41039	Automation in Manufacturing	22	51	3
15VV1A0335	RT4103L	Simulation Lab	24	48	2
15VV1A0335	RT4103M	Design/Fabrication Project	47	0	1
15VV1A0336	RT41031	Automobile Engineering	20	33	3
15VV1A0336	RT41032	CAD/CAM	26	41	3
15VV1A0336	RT41033	Finite Element Methods	21	34	3
15VV1A0336	RT41034	Unconventional Machining Processes	23	29	3
15VV1A0336	RT41035	Micro Electro Mechanical Systems	25	46	3
15VV1A0336	RT41039	Automation in Manufacturing	24	34	3
15VV1A0336	RT4103L	Simulation Lab	23	47	2
15VV1A0336	RT4103M	Design/Fabrication Project	44	0	1
15VV1A0337	RT41031	Automobile Engineering	27	53	3
15VV1A0337	RT41032	CAD/CAM	28	49	3
15VV1A0337	RT41033	Finite Element Methods	27	52	3
15VV1A0337	RT41034	Unconventional Machining Processes	22	52	3
15VV1A0337	RT41035	Micro Electro Mechanical Systems	28	50	3
15VV1A0337	RT41039	Automation in Manufacturing	26	58	3
15VV1A0337	RT4103L	Simulation Lab	24	47	2
15VV1A0337	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0338	RT41031	Automobile Engineering	24	48	3
15VV1A0338	RT41032	CAD/CAM	28	48	3
15VV1A0338	RT41033	Finite Element Methods	26	47	3
15VV1A0338	RT41034	Unconventional Machining Processes	21	46	3
15VV1A0338	RT41035	Micro Electro Mechanical Systems	27	52	3
15VV1A0338	RT41039	Automation in Manufacturing	23	54	3
15VV1A0338	RT4103L	Simulation Lab	24	49	2
15VV1A0338	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0339	RT41031	Automobile Engineering	20	51	3
15VV1A0339	RT41032	CAD/CAM	28	42	3
15VV1A0339	RT41033	Finite Element Methods	22	31	3
15VV1A0339	RT41034	Unconventional Machining Processes	23	46	3
15VV1A0339	RT41035	Micro Electro Mechanical Systems	26	52	3
15VV1A0339	RT41039	Automation in Manufacturing	25	46	3
15VV1A0339	RT4103L	Simulation Lab	24	46	2
15VV1A0339	RT4103M	Design/Fabrication Project	45	0	1
15VV1A0340	RT41031	Automobile Engineering	19	32	3
15VV1A0340	RT41032	CAD/CAM	23	30	3
15VV1A0340	RT41033	Finite Element Methods	20	26	3
15VV1A0340	RT41034	Unconventional Machining Processes	24	35	3
15VV1A0340	RT41035	Micro Electro Mechanical Systems	25	46	3
15VV1A0340	RT41039	Automation in Manufacturing	21	45	3
15VV1A0340	RT4103L	Simulation Lab	24	49	2
15VV1A0340	RT4103M	Design/Fabrication Project	47	0	1
15VV1A0341	RT41031	Automobile Engineering	26	51	3
15VV1A0341	RT41032	CAD/CAM	26	38	3
15VV1A0341	RT41033	Finite Element Methods	27	40	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0341	RT41034	Unconventional Machining Processes	23	49	3
15VV1A0341	RT41035	Micro Electro Mechanical Systems	27	45	3
15VV1A0341	RT41039	Automation in Manufacturing	23	48	3
15VV1A0341	RT4103L	Simulation Lab	24	49	2
15VV1A0341	RT4103M	Design/Fabrication Project	47	0	1
15VV1A0342	RT41031	Automobile Engineering	17	37	3
15VV1A0342	RT41032	CAD/CAM	15	34	3
15VV1A0342	RT41033	Finite Element Methods	5	24	0
15VV1A0342	RT41034	Unconventional Machining Processes	18	36	3
15VV1A0342	RT41035	Micro Electro Mechanical Systems	18	39	3
15VV1A0342	RT41039	Automation in Manufacturing	19	46	3
15VV1A0342	RT4103L	Simulation Lab	21	47	2
15VV1A0342	RT4103M	Design/Fabrication Project	47	0	1
15VV1A0343	RT41031	Automobile Engineering	20	46	3
15VV1A0343	RT41032	CAD/CAM	23	29	3
15VV1A0343	RT41033	Finite Element Methods	25	31	3
15VV1A0343	RT41034	Unconventional Machining Processes	21	34	3
15VV1A0343	RT41035	Micro Electro Mechanical Systems	25	36	3
15VV1A0343	RT41039	Automation in Manufacturing	20	42	3
15VV1A0343	RT4103L	Simulation Lab	22	43	2
15VV1A0343	RT4103M	Design/Fabrication Project	45	0	1
15VV1A0344	RT41031	Automobile Engineering	24	46	3
15VV1A0344	RT41032	CAD/CAM	28	39	3
15VV1A0344	RT41033	Finite Element Methods	24	37	3
15VV1A0344	RT41034	Unconventional Machining Processes	21	37	3
15VV1A0344	RT41035	Micro Electro Mechanical Systems	21	40	3
15VV1A0344	RT41039	Automation in Manufacturing	20	47	3
15VV1A0344	RT4103L	Simulation Lab	23	48	2
15VV1A0344	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0345	RT41031	Automobile Engineering	20	41	3
15VV1A0345	RT41032	CAD/CAM	25	33	3
15VV1A0345	RT41033	Finite Element Methods	18	24	3
15VV1A0345	RT41034	Unconventional Machining Processes	18	39	3
15VV1A0345	RT41035	Micro Electro Mechanical Systems	21	40	3
15VV1A0345	RT41039	Automation in Manufacturing	21	48	3
15VV1A0345	RT4103L	Simulation Lab	23	48	2
15VV1A0345	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0346	RT41031	Automobile Engineering	25	46	3
15VV1A0346	RT41032	CAD/CAM	27	39	3
15VV1A0346	RT41033	Finite Element Methods	26	43	3
15VV1A0346	RT41034	Unconventional Machining Processes	23	49	3
15VV1A0346	RT41035	Micro Electro Mechanical Systems	25	51	3
15VV1A0346	RT41039	Automation in Manufacturing	24	47	3
15VV1A0346	RT4103L	Simulation Lab	24	49	2
15VV1A0346	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0347	RT41031	Automobile Engineering	25	49	3
15VV1A0347	RT41032	CAD/CAM	27	44	3
15VV1A0347	RT41033	Finite Element Methods	28	45	3
15VV1A0347	RT41034	Unconventional Machining Processes	23	49	3
15VV1A0347	RT41035	Micro Electro Mechanical Systems	28	48	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0347	RT41039	Automation in Manufacturing	22	48	3
15VV1A0347	RT4103L	Simulation Lab	23	49	2
15VV1A0347	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0349	RT41031	Automobile Engineering	22	51	3
15VV1A0349	RT41032	CAD/CAM	28	49	3
15VV1A0349	RT41033	Finite Element Methods	22	38	3
15VV1A0349	RT41034	Unconventional Machining Processes	21	53	3
15VV1A0349	RT41035	Micro Electro Mechanical Systems	27	45	3
15VV1A0349	RT41039	Automation in Manufacturing	22	48	3
15VV1A0349	RT4103L	Simulation Lab	24	48	2
15VV1A0349	RT4103M	Design/Fabrication Project	46	0	1
15VV1A0350	RT41031	Automobile Engineering	23	45	3
15VV1A0350	RT41032	CAD/CAM	29	45	3
15VV1A0350	RT41033	Finite Element Methods	24	38	3
15VV1A0350	RT41034	Unconventional Machining Processes	22	39	3
15VV1A0350	RT41035	Micro Electro Mechanical Systems	27	47	3
15VV1A0350	RT41039	Automation in Manufacturing	22	48	3
15VV1A0350	RT4103L	Simulation Lab	24	48	2
15VV1A0350	RT4103M	Design/Fabrication Project	47	0	1
15VV1A0352	RT41031	Automobile Engineering	22	51	3
15VV1A0352	RT41032	CAD/CAM	27	37	3
15VV1A0352	RT41033	Finite Element Methods	20	30	3
15VV1A0352	RT41034	Unconventional Machining Processes	21	40	3
15VV1A0352	RT41035	Micro Electro Mechanical Systems	25	42	3
15VV1A0352	RT41039	Automation in Manufacturing	22	47	3
15VV1A0352	RT4103L	Simulation Lab	23	47	2
15VV1A0352	RT4103M	Design/Fabrication Project	45	0	1
15VV1A0353	RT41031	Automobile Engineering	24	46	3
15VV1A0353	RT41032	CAD/CAM	25	49	3
15VV1A0353	RT41033	Finite Element Methods	25	36	3
15VV1A0353	RT41034	Unconventional Machining Processes	21	50	3
15VV1A0353	RT41035	Micro Electro Mechanical Systems	27	52	3
15VV1A0353	RT41039	Automation in Manufacturing	25	49	3
15VV1A0353	RT4103L	Simulation Lab	24	48	2
15VV1A0353	RT4103M	Design/Fabrication Project	47	0	1
15VV1A0354	RT41031	Automobile Engineering	21	35	3
15VV1A0354	RT41032	CAD/CAM	25	41	3
15VV1A0354	RT41033	Finite Element Methods	23	39	3
15VV1A0354	RT41034	Unconventional Machining Processes	23	46	3
15VV1A0354	RT41035	Micro Electro Mechanical Systems	27	52	3
15VV1A0354	RT41039	Automation in Manufacturing	23	52	3
15VV1A0354	RT4103L	Simulation Lab	24	48	2
15VV1A0354	RT4103M	Design/Fabrication Project	48	0	1
15VV1A0355	RT41031	Automobile Engineering	27	36	3
15VV1A0355	RT41032	CAD/CAM	27	48	3
15VV1A0355	RT41033	Finite Element Methods	25	43	3
15VV1A0355	RT41034	Unconventional Machining Processes	24	48	3
15VV1A0355	RT41035	Micro Electro Mechanical Systems	28	48	3
15VV1A0355	RT41039	Automation in Manufacturing	21	47	3
15VV1A0355	RT4103L	Simulation Lab	24	49	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0355	RT4103M	Design/Fabrication Project	49	0	1
15VV1A0357	RT41031	Automobile Engineering	23	50	3
15VV1A0357	RT41032	CAD/CAM	20	39	3
15VV1A0357	RT41033	Finite Element Methods	24	41	3
15VV1A0357	RT41034	Unconventional Machining Processes	22	36	3
15VV1A0357	RT41035	Micro Electro Mechanical Systems	25	45	3
15VV1A0357	RT41039	Automation in Manufacturing	25	41	3
15VV1A0357	RT4103L	Simulation Lab	23	48	2
15VV1A0357	RT4103M	Design/Fabrication Project	44	0	1
15VV1A0358	RT41031	Automobile Engineering	23	33	3
15VV1A0358	RT41032	CAD/CAM	21	27	3
15VV1A0358	RT41033	Finite Element Methods	16	24	3
15VV1A0358	RT41034	Unconventional Machining Processes	22	24	3
15VV1A0358	RT41035	Micro Electro Mechanical Systems	26	44	3
15VV1A0358	RT41039	Automation in Manufacturing	25	36	3
15VV1A0358	RT4103L	Simulation Lab	22	44	2
15VV1A0358	RT4103M	Design/Fabrication Project	44	0	1
15VV1A0402	RT41041	VLSI Design	27	44	3
15VV1A0402	RT41042	Computer Networks	24	56	3
15VV1A0402	RT41043	Digital Image Processing	29	48	3
15VV1A0402	RT41044	Computer Architecture & Organization	29	36	3
15VV1A0402	RT41048	Radar Systems	22	38	3
15VV1A0402	RT4104A	Optical Communication	20	39	3
15VV1A0402	RT4104L	VLSI Design Lab	23	44	2
15VV1A0402	RT4104M	Microwave Engineering Lab	22	45	2
15VV1A0403	RT41041	VLSI Design	29	56	3
15VV1A0403	RT41042	Computer Networks	27	48	3
15VV1A0403	RT41043	Digital Image Processing	26	55	3
15VV1A0403	RT41044	Computer Architecture & Organization	27	48	3
15VV1A0403	RT41048	Radar Systems	23	45	3
15VV1A0403	RT4104A	Optical Communication	27	51	3
15VV1A0403	RT4104L	VLSI Design Lab	24	46	2
15VV1A0403	RT4104M	Microwave Engineering Lab	24	45	2
15VV1A0404	RT41041	VLSI Design	26	40	3
15VV1A0404	RT41042	Computer Networks	21	49	3
15VV1A0404	RT41043	Digital Image Processing	26	42	3
15VV1A0404	RT41044	Computer Architecture & Organization	28	37	3
15VV1A0404	RT41048	Radar Systems	19	39	3
15VV1A0404	RT4104A	Optical Communication	19	27	3
15VV1A0404	RT4104L	VLSI Design Lab	24	44	2
15VV1A0404	RT4104M	Microwave Engineering Lab	23	45	2
15VV1A0405	RT41041	VLSI Design	20	32	3
15VV1A0405	RT41042	Computer Networks	21	31	3
15VV1A0405	RT41043	Digital Image Processing	15	25	3
15VV1A0405	RT41044	Computer Architecture & Organization	20	32	3
15VV1A0405	RT41048	Radar Systems	14	30	3
15VV1A0405	RT4104A	Optical Communication	21	33	3
15VV1A0405	RT4104L	VLSI Design Lab	21	42	2
15VV1A0405	RT4104M	Microwave Engineering Lab	23	42	2
15VV1A0406	RT41041	VLSI Design	25	33	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0406	RT41042	Computer Networks	18	33	3
15VV1A0406	RT41043	Digital Image Processing	16	24	3
15VV1A0406	RT41044	Computer Architecture & Organization	26	32	3
15VV1A0406	RT41048	Radar Systems	20	24	3
15VV1A0406	RT4104A	Optical Communication	16	26	3
15VV1A0406	RT4104L	VLSI Design Lab	22	41	2
15VV1A0406	RT4104M	Microwave Engineering Lab	22	42	2
15VV1A0407	RT41041	VLSI Design	28	46	3
15VV1A0407	RT41042	Computer Networks	24	49	3
15VV1A0407	RT41043	Digital Image Processing	26	54	3
15VV1A0407	RT41044	Computer Architecture & Organization	26	42	3
15VV1A0407	RT41048	Radar Systems	21	42	3
15VV1A0407	RT4104A	Optical Communication	27	37	3
15VV1A0407	RT4104L	VLSI Design Lab	23	44	2
15VV1A0407	RT4104M	Microwave Engineering Lab	23	42	2
15VV1A0408	RT41041	VLSI Design	27	53	3
15VV1A0408	RT41042	Computer Networks	27	57	3
15VV1A0408	RT41043	Digital Image Processing	28	49	3
15VV1A0408	RT41044	Computer Architecture & Organization	29	36	3
15VV1A0408	RT41048	Radar Systems	20	49	3
15VV1A0408	RT4104A	Optical Communication	27	49	3
15VV1A0408	RT4104L	VLSI Design Lab	25	45	2
15VV1A0408	RT4104M	Microwave Engineering Lab	24	47	2
15VV1A0409	RT41041	VLSI Design	25	51	3
15VV1A0409	RT41042	Computer Networks	23	49	3
15VV1A0409	RT41043	Digital Image Processing	25	54	3
15VV1A0409	RT41044	Computer Architecture & Organization	28	36	3
15VV1A0409	RT41048	Radar Systems	23	49	3
15VV1A0409	RT4104A	Optical Communication	28	45	3
15VV1A0409	RT4104L	VLSI Design Lab	25	48	2
15VV1A0409	RT4104M	Microwave Engineering Lab	24	48	2
15VV1A0410	RT41041	VLSI Design	28	46	3
15VV1A0410	RT41042	Computer Networks	26	48	3
15VV1A0410	RT41043	Digital Image Processing	27	55	3
15VV1A0410	RT41044	Computer Architecture & Organization	27	32	3
15VV1A0410	RT41048	Radar Systems	24	42	3
15VV1A0410	RT4104A	Optical Communication	26	41	3
15VV1A0410	RT4104L	VLSI Design Lab	24	48	2
15VV1A0410	RT4104M	Microwave Engineering Lab	24	48	2
15VV1A0411	RT41041	VLSI Design	25	45	3
15VV1A0411	RT41042	Computer Networks	27	48	3
15VV1A0411	RT41043	Digital Image Processing	26	52	3
15VV1A0411	RT41044	Computer Architecture & Organization	26	36	3
15VV1A0411	RT41048	Radar Systems	21	32	3
15VV1A0411	RT4104A	Optical Communication	25	47	3
15VV1A0411	RT4104L	VLSI Design Lab	22	42	2
15VV1A0411	RT4104M	Microwave Engineering Lab	23	45	2
15VV1A0412	RT41041	VLSI Design	26	59	3
15VV1A0412	RT41042	Computer Networks	27	53	3
15VV1A0412	RT41043	Digital Image Processing	21	55	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0412	RT41044	Computer Architecture & Organization	29	42	3
15VV1A0412	RT41048	Radar Systems	21	55	3
15VV1A0412	RT4104A	Optical Communication	26	41	3
15VV1A0412	RT4104L	VLSI Design Lab	23	44	2
15VV1A0412	RT4104M	Microwave Engineering Lab	24	47	2
15VV1A0413	RT41041	VLSI Design	28	50	3
15VV1A0413	RT41042	Computer Networks	21	52	3
15VV1A0413	RT41043	Digital Image Processing	27	54	3
15VV1A0413	RT41044	Computer Architecture & Organization	26	38	3
15VV1A0413	RT41048	Radar Systems	20	31	3
15VV1A0413	RT4104A	Optical Communication	21	40	3
15VV1A0413	RT4104L	VLSI Design Lab	22	41	2
15VV1A0413	RT4104M	Microwave Engineering Lab	22	45	2
15VV1A0414	RT41041	VLSI Design	27	52	3
15VV1A0414	RT41042	Computer Networks	24	59	3
15VV1A0414	RT41043	Digital Image Processing	28	63	3
15VV1A0414	RT41044	Computer Architecture & Organization	28	48	3
15VV1A0414	RT41048	Radar Systems	25	41	3
15VV1A0414	RT4104A	Optical Communication	27	49	3
15VV1A0414	RT4104L	VLSI Design Lab	23	44	2
15VV1A0414	RT4104M	Microwave Engineering Lab	23	46	2
15VV1A0415	RT41041	VLSI Design	20	43	3
15VV1A0415	RT41042	Computer Networks	20	38	3
15VV1A0415	RT41043	Digital Image Processing	20	57	3
15VV1A0415	RT41044	Computer Architecture & Organization	27	33	3
15VV1A0415	RT41048	Radar Systems	17	38	3
15VV1A0415	RT4104A	Optical Communication	20	36	3
15VV1A0415	RT4104L	VLSI Design Lab	23	44	2
15VV1A0415	RT4104M	Microwave Engineering Lab	21	46	2
15VV1A0416	RT41041	VLSI Design	29	51	3
15VV1A0416	RT41042	Computer Networks	24	45	3
15VV1A0416	RT41043	Digital Image Processing	26	47	3
15VV1A0416	RT41044	Computer Architecture & Organization	27	38	3
15VV1A0416	RT41048	Radar Systems	25	41	3
15VV1A0416	RT4104A	Optical Communication	27	37	3
15VV1A0416	RT4104L	VLSI Design Lab	24	45	2
15VV1A0416	RT4104M	Microwave Engineering Lab	22	45	2
15VV1A0417	RT41041	VLSI Design	24	56	3
15VV1A0417	RT41042	Computer Networks	22	49	3
15VV1A0417	RT41043	Digital Image Processing	18	29	3
15VV1A0417	RT41044	Computer Architecture & Organization	25	37	3
15VV1A0417	RT41048	Radar Systems	16	42	3
15VV1A0417	RT4104A	Optical Communication	20	33	3
15VV1A0417	RT4104L	VLSI Design Lab	25	48	2
15VV1A0417	RT4104M	Microwave Engineering Lab	24	42	2
15VV1A0418	RT41041	VLSI Design	25	58	3
15VV1A0418	RT41042	Computer Networks	17	45	3
15VV1A0418	RT41043	Digital Image Processing	25	51	3
15VV1A0418	RT41044	Computer Architecture & Organization	26	39	3
15VV1A0418	RT41048	Radar Systems	17	40	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0418	RT4104A	Optical Communication	26	33	3
15VV1A0418	RT4104L	VLSI Design Lab	23	45	2
15VV1A0418	RT4104M	Microwave Engineering Lab	22	46	2
15VV1A0419	RT41041	VLSI Design	24	45	3
15VV1A0419	RT41042	Computer Networks	19	40	3
15VV1A0419	RT41043	Digital Image Processing	21	31	3
15VV1A0419	RT41044	Computer Architecture & Organization	21	29	3
15VV1A0419	RT41048	Radar Systems	20	37	3
15VV1A0419	RT4104A	Optical Communication	25	36	3
15VV1A0419	RT4104L	VLSI Design Lab	24	45	2
15VV1A0419	RT4104M	Microwave Engineering Lab	22	44	2
15VV1A0420	RT41041	VLSI Design	22	45	3
15VV1A0420	RT41042	Computer Networks	15	49	3
15VV1A0420	RT41043	Digital Image Processing	20	36	3
15VV1A0420	RT41044	Computer Architecture & Organization	25	37	3
15VV1A0420	RT41048	Radar Systems	23	32	3
15VV1A0420	RT4104A	Optical Communication	21	37	3
15VV1A0420	RT4104L	VLSI Design Lab	23	43	2
15VV1A0420	RT4104M	Microwave Engineering Lab	23	46	2
15VV1A0421	RT41041	VLSI Design	21	45	3
15VV1A0421	RT41042	Computer Networks	19	42	3
15VV1A0421	RT41043	Digital Image Processing	26	42	3
15VV1A0421	RT41044	Computer Architecture & Organization	28	35	3
15VV1A0421	RT41048	Radar Systems	15	25	3
15VV1A0421	RT4104A	Optical Communication	24	37	3
15VV1A0421	RT4104L	VLSI Design Lab	22	42	2
15VV1A0421	RT4104M	Microwave Engineering Lab	23	42	2
15VV1A0423	RT41041	VLSI Design	26	48	3
15VV1A0423	RT41042	Computer Networks	21	44	3
15VV1A0423	RT41043	Digital Image Processing	28	47	3
15VV1A0423	RT41044	Computer Architecture & Organization	29	31	3
15VV1A0423	RT41048	Radar Systems	23	33	3
15VV1A0423	RT4104A	Optical Communication	26	37	3
15VV1A0423	RT4104L	VLSI Design Lab	24	47	2
15VV1A0423	RT4104M	Microwave Engineering Lab	23	47	2
15VV1A0424	RT41041	VLSI Design	26	44	3
15VV1A0424	RT41042	Computer Networks	21	32	3
15VV1A0424	RT41043	Digital Image Processing	15	15	0
15VV1A0424	RT41044	Computer Architecture & Organization	23	30	3
15VV1A0424	RT41048	Radar Systems	19	33	3
15VV1A0424	RT4104A	Optical Communication	17	25	3
15VV1A0424	RT4104L	VLSI Design Lab	22	43	2
15VV1A0424	RT4104M	Microwave Engineering Lab	22	43	2
15VV1A0427	RT41041	VLSI Design	24	44	3
15VV1A0427	RT41042	Computer Networks	18	39	3
15VV1A0427	RT41043	Digital Image Processing	27	36	3
15VV1A0427	RT41044	Computer Architecture & Organization	28	29	3
15VV1A0427	RT41048	Radar Systems	16	29	3
15VV1A0427	RT4104A	Optical Communication	24	28	3
15VV1A0427	RT4104L	VLSI Design Lab	24	46	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0427	RT4104M	Microwave Engineering Lab	23	46	2
15VV1A0428	RT41041	VLSI Design	24	48	3
15VV1A0428	RT41042	Computer Networks	19	37	3
15VV1A0428	RT41043	Digital Image Processing	16	34	3
15VV1A0428	RT41044	Computer Architecture & Organization	24	35	3
15VV1A0428	RT41048	Radar Systems	18	33	3
15VV1A0428	RT4104A	Optical Communication	22	35	3
15VV1A0428	RT4104L	VLSI Design Lab	24	47	2
15VV1A0428	RT4104M	Microwave Engineering Lab	23	46	2
15VV1A0429	RT41041	VLSI Design	27	28	3
15VV1A0429	RT41042	Computer Networks	15	42	3
15VV1A0429	RT41043	Digital Image Processing	18	45	3
15VV1A0429	RT41044	Computer Architecture & Organization	23	34	3
15VV1A0429	RT41048	Radar Systems	19	41	3
15VV1A0429	RT4104A	Optical Communication	17	38	3
15VV1A0429	RT4104L	VLSI Design Lab	24	46	2
15VV1A0429	RT4104M	Microwave Engineering Lab	22	42	2
15VV1A0430	RT41041	VLSI Design	25	42	3
15VV1A0430	RT41042	Computer Networks	22	47	3
15VV1A0430	RT41043	Digital Image Processing	24	45	3
15VV1A0430	RT41044	Computer Architecture & Organization	25	35	3
15VV1A0430	RT41048	Radar Systems	21	43	3
15VV1A0430	RT4104A	Optical Communication	26	43	3
15VV1A0430	RT4104L	VLSI Design Lab	25	47	2
15VV1A0430	RT4104M	Microwave Engineering Lab	23	46	2
15VV1A0431	RT41041	VLSI Design	23	47	3
15VV1A0431	RT41042	Computer Networks	27	48	3
15VV1A0431	RT41043	Digital Image Processing	24	46	3
15VV1A0431	RT41044	Computer Architecture & Organization	24	39	3
15VV1A0431	RT41048	Radar Systems	21	33	3
15VV1A0431	RT4104A	Optical Communication	24	47	3
15VV1A0431	RT4104L	VLSI Design Lab	22	42	2
15VV1A0431	RT4104M	Microwave Engineering Lab	24	45	2
15VV1A0432	RT41041	VLSI Design	21	30	3
15VV1A0432	RT41042	Computer Networks	20	37	3
15VV1A0432	RT41043	Digital Image Processing	16	38	3
15VV1A0432	RT41044	Computer Architecture & Organization	23	29	3
15VV1A0432	RT41048	Radar Systems	22	35	3
15VV1A0432	RT4104A	Optical Communication	21	40	3
15VV1A0432	RT4104L	VLSI Design Lab	25	43	2
15VV1A0432	RT4104M	Microwave Engineering Lab	23	42	2
15VV1A0433	RT41041	VLSI Design	25	35	3
15VV1A0433	RT41042	Computer Networks	20	29	3
15VV1A0433	RT41043	Digital Image Processing	19	24	3
15VV1A0433	RT41044	Computer Architecture & Organization	22	36	3
15VV1A0433	RT41048	Radar Systems	12	28	3
15VV1A0433	RT4104A	Optical Communication	20	25	3
15VV1A0433	RT4104L	VLSI Design Lab	24	43	2
15VV1A0433	RT4104M	Microwave Engineering Lab	23	47	2
15VV1A0434	RT41041	VLSI Design	23	42	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0434	RT41042	Computer Networks	25	46	3
15VV1A0434	RT41043	Digital Image Processing	25	42	3
15VV1A0434	RT41044	Computer Architecture & Organization	27	36	3
15VV1A0434	RT41048	Radar Systems	20	26	3
15VV1A0434	RT4104A	Optical Communication	23	41	3
15VV1A0434	RT4104L	VLSI Design Lab	23	39	2
15VV1A0434	RT4104M	Microwave Engineering Lab	23	43	2
15VV1A0435	RT41041	VLSI Design	20	31	3
15VV1A0435	RT41042	Computer Networks	14	44	3
15VV1A0435	RT41043	Digital Image Processing	18	38	3
15VV1A0435	RT41044	Computer Architecture & Organization	20	29	3
15VV1A0435	RT41048	Radar Systems	20	25	3
15VV1A0435	RT4104A	Optical Communication	25	32	3
15VV1A0435	RT4104L	VLSI Design Lab	22	39	2
15VV1A0435	RT4104M	Microwave Engineering Lab	24	46	2
15VV1A0436	RT41041	VLSI Design	23	44	3
15VV1A0436	RT41042	Computer Networks	28	49	3
15VV1A0436	RT41043	Digital Image Processing	25	48	3
15VV1A0436	RT41044	Computer Architecture & Organization	29	33	3
15VV1A0436	RT41048	Radar Systems	20	48	3
15VV1A0436	RT4104A	Optical Communication	28	48	3
15VV1A0436	RT4104L	VLSI Design Lab	23	46	2
15VV1A0436	RT4104M	Microwave Engineering Lab	24	46	2
15VV1A0437	RT41041	VLSI Design	25	44	3
15VV1A0437	RT41042	Computer Networks	22	56	3
15VV1A0437	RT41043	Digital Image Processing	24	56	3
15VV1A0437	RT41044	Computer Architecture & Organization	26	30	3
15VV1A0437	RT41048	Radar Systems	18	30	3
15VV1A0437	RT4104A	Optical Communication	24	36	3
15VV1A0437	RT4104L	VLSI Design Lab	22	44	2
15VV1A0437	RT4104M	Microwave Engineering Lab	24	46	2
15VV1A0438	RT41041	VLSI Design	23	36	3
15VV1A0438	RT41042	Computer Networks	23	46	3
15VV1A0438	RT41043	Digital Image Processing	25	47	3
15VV1A0438	RT41044	Computer Architecture & Organization	24	25	3
15VV1A0438	RT41048	Radar Systems	20	46	3
15VV1A0438	RT4104A	Optical Communication	22	48	3
15VV1A0438	RT4104L	VLSI Design Lab	24	46	2
15VV1A0438	RT4104M	Microwave Engineering Lab	23	45	2
15VV1A0439	RT41041	VLSI Design	23	40	3
15VV1A0439	RT41042	Computer Networks	22	49	3
15VV1A0439	RT41043	Digital Image Processing	21	34	3
15VV1A0439	RT41044	Computer Architecture & Organization	26	33	3
15VV1A0439	RT41048	Radar Systems	19	32	3
15VV1A0439	RT4104A	Optical Communication	23	24	3
15VV1A0439	RT4104L	VLSI Design Lab	25	48	2
15VV1A0439	RT4104M	Microwave Engineering Lab	23	45	2
15VV1A0441	RT41041	VLSI Design	24	37	3
15VV1A0441	RT41042	Computer Networks	15	42	3
15VV1A0441	RT41043	Digital Image Processing	12	15	0

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0441	RT41044	Computer Architecture & Organization	18	30	3
15VV1A0441	RT41048	Radar Systems	17	24	3
15VV1A0441	RT4104A	Optical Communication	16	24	3
15VV1A0441	RT4104L	VLSI Design Lab	22	42	2
15VV1A0441	RT4104M	Microwave Engineering Lab	23	38	2
15VV1A0442	RT41041	VLSI Design	26	38	3
15VV1A0442	RT41042	Computer Networks	23	48	3
15VV1A0442	RT41043	Digital Image Processing	28	39	3
15VV1A0442	RT41044	Computer Architecture & Organization	25	31	3
15VV1A0442	RT41048	Radar Systems	25	41	3
15VV1A0442	RT4104A	Optical Communication	24	31	3
15VV1A0442	RT4104L	VLSI Design Lab	25	48	2
15VV1A0442	RT4104M	Microwave Engineering Lab	24	46	2
15VV1A0443	RT41041	VLSI Design	22	25	3
15VV1A0443	RT41042	Computer Networks	23	38	3
15VV1A0443	RT41043	Digital Image Processing	16	29	3
15VV1A0443	RT41044	Computer Architecture & Organization	24	27	3
15VV1A0443	RT41048	Radar Systems	18	26	3
15VV1A0443	RT4104A	Optical Communication	25	34	3
15VV1A0443	RT4104L	VLSI Design Lab	23	43	2
15VV1A0443	RT4104M	Microwave Engineering Lab	24	44	2
15VV1A0444	RT41041	VLSI Design	25	27	3
15VV1A0444	RT41042	Computer Networks	16	38	3
15VV1A0444	RT41043	Digital Image Processing	15	12	0
15VV1A0444	RT41044	Computer Architecture & Organization	28	25	3
15VV1A0444	RT41048	Radar Systems	17	35	3
15VV1A0444	RT4104A	Optical Communication	16	29	3
15VV1A0444	RT4104L	VLSI Design Lab	22	43	2
15VV1A0444	RT4104M	Microwave Engineering Lab	22	42	2
15VV1A0445	RT41041	VLSI Design	24	38	3
15VV1A0445	RT41042	Computer Networks	20	49	3
15VV1A0445	RT41043	Digital Image Processing	21	30	3
15VV1A0445	RT41044	Computer Architecture & Organization	28	43	3
15VV1A0445	RT41048	Radar Systems	20	38	3
15VV1A0445	RT4104A	Optical Communication	21	32	3
15VV1A0445	RT4104L	VLSI Design Lab	24	44	2
15VV1A0445	RT4104M	Microwave Engineering Lab	23	46	2
15VV1A0446	RT41041	VLSI Design	28	61	3
15VV1A0446	RT41042	Computer Networks	24	53	3
15VV1A0446	RT41043	Digital Image Processing	25	47	3
15VV1A0446	RT41044	Computer Architecture & Organization	28	42	3
15VV1A0446	RT41048	Radar Systems	21	44	3
15VV1A0446	RT4104A	Optical Communication	26	42	3
15VV1A0446	RT4104L	VLSI Design Lab	22	45	2
15VV1A0446	RT4104M	Microwave Engineering Lab	22	45	2
15VV1A0447	RT41041	VLSI Design	23	26	3
15VV1A0447	RT41042	Computer Networks	18	27	3
15VV1A0447	RT41043	Digital Image Processing	11	29	3
15VV1A0447	RT41044	Computer Architecture & Organization	23	17	0
15VV1A0447	RT41048	Radar Systems	13	33	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0447	RT4104A	Optical Communication	17	25	3
15VV1A0447	RT4104L	VLSI Design Lab	23	43	2
15VV1A0447	RT4104M	Microwave Engineering Lab	23	45	2
15VV1A0501	RT41051	Cryptography and Network Security	16	49	3
15VV1A0501	RT41052	UML & Design Patterns	29	35	3
15VV1A0501	RT41053	Mobile Computing	24	46	3
15VV1A0501	RT41057	Artificial Intelligence	26	47	2
15VV1A0501	RT4105B	Hadoop and Big Data	27	34	3
15VV1A0501	RT4105L	UML & Design Patterns Lab	24	46	2
15VV1A0501	RT4105M	Mobile Application Development Lab	21	43	2
15VV1A0501	RT4105N	Software Testing Lab	23	46	2
15VV1A0501	RT4105O	Hadoop & Big Data Lab	23	36	2
15VV1A0502	RT41051	Cryptography and Network Security	27	58	3
15VV1A0502	RT41052	UML & Design Patterns	30	46	3
15VV1A0502	RT41053	Mobile Computing	25	50	3
15VV1A0502	RT41057	Artificial Intelligence	30	53	2
15VV1A0502	RT4105B	Hadoop and Big Data	27	56	3
15VV1A0502	RT4105L	UML & Design Patterns Lab	25	50	2
15VV1A0502	RT4105M	Mobile Application Development Lab	25	50	2
15VV1A0502	RT4105N	Software Testing Lab	25	50	2
15VV1A0502	RT4105O	Hadoop & Big Data Lab	25	48	2
15VV1A0503	RT41051	Cryptography and Network Security	13	52	3
15VV1A0503	RT41052	UML & Design Patterns	22	31	3
15VV1A0503	RT41053	Mobile Computing	25	43	3
15VV1A0503	RT41057	Artificial Intelligence	28	40	2
15VV1A0503	RT4105B	Hadoop and Big Data	25	42	3
15VV1A0503	RT4105L	UML & Design Patterns Lab	23	46	2
15VV1A0503	RT4105M	Mobile Application Development Lab	25	46	2
15VV1A0503	RT4105N	Software Testing Lab	23	47	2
15VV1A0503	RT4105O	Hadoop & Big Data Lab	22	40	2
15VV1A0504	RT41051	Cryptography and Network Security	23	32	3
15VV1A0504	RT41052	UML & Design Patterns	22	35	3
15VV1A0504	RT41053	Mobile Computing	23	32	3
15VV1A0504	RT41057	Artificial Intelligence	27	26	2
15VV1A0504	RT4105B	Hadoop and Big Data	25	38	3
15VV1A0504	RT4105L	UML & Design Patterns Lab	24	48	2
15VV1A0504	RT4105M	Mobile Application Development Lab	24	49	2
15VV1A0504	RT4105N	Software Testing Lab	24	47	2
15VV1A0504	RT4105O	Hadoop & Big Data Lab	24	46	2
15VV1A0505	RT41051	Cryptography and Network Security	21	46	3
15VV1A0505	RT41052	UML & Design Patterns	29	40	3
15VV1A0505	RT41053	Mobile Computing	23	32	3
15VV1A0505	RT41057	Artificial Intelligence	29	34	2
15VV1A0505	RT4105B	Hadoop and Big Data	28	45	3
15VV1A0505	RT4105L	UML & Design Patterns Lab	23	48	2
15VV1A0505	RT4105M	Mobile Application Development Lab	24	47	2
15VV1A0505	RT4105N	Software Testing Lab	23	47	2
15VV1A0505	RT4105O	Hadoop & Big Data Lab	23	43	2
15VV1A0506	RT41051	Cryptography and Network Security	19	53	3
15VV1A0506	RT41052	UML & Design Patterns	30	47	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0506	RT41053	Mobile Computing	25	45	3
15VV1A0506	RT41057	Artificial Intelligence	27	42	2
15VV1A0506	RT4105B	Hadoop and Big Data	27	41	3
15VV1A0506	RT4105L	UML & Design Patterns Lab	24	46	2
15VV1A0506	RT4105M	Mobile Application Development Lab	23	47	2
15VV1A0506	RT4105N	Software Testing Lab	24	49	2
15VV1A0506	RT4105O	Hadoop & Big Data Lab	25	45	2
15VV1A0507	RT41051	Cryptography and Network Security	19	38	3
15VV1A0507	RT41052	UML & Design Patterns	29	30	3
15VV1A0507	RT41053	Mobile Computing	24	36	3
15VV1A0507	RT41057	Artificial Intelligence	27	34	2
15VV1A0507	RT4105B	Hadoop and Big Data	26	32	3
15VV1A0507	RT4105L	UML & Design Patterns Lab	22	49	2
15VV1A0507	RT4105M	Mobile Application Development Lab	24	45	2
15VV1A0507	RT4105N	Software Testing Lab	22	47	2
15VV1A0507	RT4105O	Hadoop & Big Data Lab	23	44	2
15VV1A0508	RT41051	Cryptography and Network Security	19	35	3
15VV1A0508	RT41052	UML & Design Patterns	25	36	3
15VV1A0508	RT41053	Mobile Computing	21	37	3
15VV1A0508	RT41057	Artificial Intelligence	26	31	2
15VV1A0508	RT4105B	Hadoop and Big Data	27	29	3
15VV1A0508	RT4105L	UML & Design Patterns Lab	20	46	2
15VV1A0508	RT4105M	Mobile Application Development Lab	18	44	2
15VV1A0508	RT4105N	Software Testing Lab	21	47	2
15VV1A0508	RT4105O	Hadoop & Big Data Lab	21	45	2
15VV1A0509	RT41051	Cryptography and Network Security	16	48	3
15VV1A0509	RT41052	UML & Design Patterns	29	49	3
15VV1A0509	RT41053	Mobile Computing	24	48	3
15VV1A0509	RT41057	Artificial Intelligence	27	41	2
15VV1A0509	RT4105B	Hadoop and Big Data	27	44	3
15VV1A0509	RT4105L	UML & Design Patterns Lab	23	46	2
15VV1A0509	RT4105M	Mobile Application Development Lab	24	48	2
15VV1A0509	RT4105N	Software Testing Lab	24	47	2
15VV1A0509	RT4105O	Hadoop & Big Data Lab	23	43	2
15VV1A0510	RT41051	Cryptography and Network Security	24	52	3
15VV1A0510	RT41052	UML & Design Patterns	27	45	3
15VV1A0510	RT41053	Mobile Computing	26	49	3
15VV1A0510	RT41057	Artificial Intelligence	26	54	2
15VV1A0510	RT4105B	Hadoop and Big Data	26	50	3
15VV1A0510	RT4105L	UML & Design Patterns Lab	25	49	2
15VV1A0510	RT4105M	Mobile Application Development Lab	23	47	2
15VV1A0510	RT4105N	Software Testing Lab	23	48	2
15VV1A0510	RT4105O	Hadoop & Big Data Lab	24	45	2
15VV1A0511	RT41051	Cryptography and Network Security	15	40	3
15VV1A0511	RT41052	UML & Design Patterns	29	38	3
15VV1A0511	RT41053	Mobile Computing	20	42	3
15VV1A0511	RT41057	Artificial Intelligence	25	36	2
15VV1A0511	RT4105B	Hadoop and Big Data	27	24	3
15VV1A0511	RT4105L	UML & Design Patterns Lab	23	46	2
15VV1A0511	RT4105M	Mobile Application Development Lab	17	44	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0511	RT4105N	Software Testing Lab	23	45	2
15VV1A0511	RT4105O	Hadoop & Big Data Lab	23	43	2
15VV1A0512	RT41051	Cryptography and Network Security	22	49	3
15VV1A0512	RT41052	UML & Design Patterns	23	53	3
15VV1A0512	RT41053	Mobile Computing	24	46	3
15VV1A0512	RT41057	Artificial Intelligence	28	51	2
15VV1A0512	RT4105B	Hadoop and Big Data	27	56	3
15VV1A0512	RT4105L	UML & Design Patterns Lab	25	44	2
15VV1A0512	RT4105M	Mobile Application Development Lab	24	45	2
15VV1A0512	RT4105N	Software Testing Lab	24	48	2
15VV1A0512	RT4105O	Hadoop & Big Data Lab	24	46	2
15VV1A0513	RT41051	Cryptography and Network Security	17	37	3
15VV1A0513	RT41052	UML & Design Patterns	30	29	3
15VV1A0513	RT41053	Mobile Computing	22	29	3
15VV1A0513	RT41057	Artificial Intelligence	29	31	2
15VV1A0513	RT4105B	Hadoop and Big Data	25	27	3
15VV1A0513	RT4105L	UML & Design Patterns Lab	25	47	2
15VV1A0513	RT4105M	Mobile Application Development Lab	19	45	2
15VV1A0513	RT4105N	Software Testing Lab	23	46	2
15VV1A0513	RT4105O	Hadoop & Big Data Lab	23	44	2
15VV1A0514	RT41051	Cryptography and Network Security	16	44	3
15VV1A0514	RT41052	UML & Design Patterns	25	25	3
15VV1A0514	RT41053	Mobile Computing	21	33	3
15VV1A0514	RT41057	Artificial Intelligence	28	29	2
15VV1A0514	RT4105B	Hadoop and Big Data	25	30	3
15VV1A0514	RT4105L	UML & Design Patterns Lab	22	45	2
15VV1A0514	RT4105M	Mobile Application Development Lab	21	44	2
15VV1A0514	RT4105N	Software Testing Lab	21	-1	0
15VV1A0514	RT4105O	Hadoop & Big Data Lab	21	-1	0
15VV1A0515	RT41051	Cryptography and Network Security	14	47	3
15VV1A0515	RT41052	UML & Design Patterns	28	40	3
15VV1A0515	RT41053	Mobile Computing	18	50	3
15VV1A0515	RT41057	Artificial Intelligence	27	46	2
15VV1A0515	RT4105B	Hadoop and Big Data	26	53	3
15VV1A0515	RT4105L	UML & Design Patterns Lab	24	46	2
15VV1A0515	RT4105M	Mobile Application Development Lab	24	46	2
15VV1A0515	RT4105N	Software Testing Lab	23	45	2
15VV1A0515	RT4105O	Hadoop & Big Data Lab	23	44	2
15VV1A0516	RT41051	Cryptography and Network Security	20	51	3
15VV1A0516	RT41052	UML & Design Patterns	29	46	3
15VV1A0516	RT41053	Mobile Computing	23	48	3
15VV1A0516	RT41057	Artificial Intelligence	30	55	2
15VV1A0516	RT4105B	Hadoop and Big Data	28	35	3
15VV1A0516	RT4105L	UML & Design Patterns Lab	24	50	2
15VV1A0516	RT4105M	Mobile Application Development Lab	18	48	2
15VV1A0516	RT4105N	Software Testing Lab	24	50	2
15VV1A0516	RT4105O	Hadoop & Big Data Lab	24	48	2
15VV1A0517	RT41051	Cryptography and Network Security	20	56	3
15VV1A0517	RT41052	UML & Design Patterns	24	56	3
15VV1A0517	RT41053	Mobile Computing	24	52	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0517	RT41057	Artificial Intelligence	28	57	2
15VV1A0517	RT4105B	Hadoop and Big Data	26	66	3
15VV1A0517	RT4105L	UML & Design Patterns Lab	25	49	2
15VV1A0517	RT4105M	Mobile Application Development Lab	23	49	2
15VV1A0517	RT4105N	Software Testing Lab	23	49	2
15VV1A0517	RT4105O	Hadoop & Big Data Lab	23	49	2
15VV1A0518	RT41051	Cryptography and Network Security	15	44	3
15VV1A0518	RT41052	UML & Design Patterns	23	37	3
15VV1A0518	RT41053	Mobile Computing	23	47	3
15VV1A0518	RT41057	Artificial Intelligence	27	46	2
15VV1A0518	RT4105B	Hadoop and Big Data	25	26	3
15VV1A0518	RT4105L	UML & Design Patterns Lab	22	46	2
15VV1A0518	RT4105M	Mobile Application Development Lab	23	45	2
15VV1A0518	RT4105N	Software Testing Lab	23	47	2
15VV1A0518	RT4105O	Hadoop & Big Data Lab	23	41	2
15VV1A0520	RT41051	Cryptography and Network Security	14	39	3
15VV1A0520	RT41052	UML & Design Patterns	29	33	3
15VV1A0520	RT41053	Mobile Computing	24	38	3
15VV1A0520	RT41057	Artificial Intelligence	25	34	2
15VV1A0520	RT4105B	Hadoop and Big Data	25	33	3
15VV1A0520	RT4105L	UML & Design Patterns Lab	21	46	2
15VV1A0520	RT4105M	Mobile Application Development Lab	15	43	2
15VV1A0520	RT4105N	Software Testing Lab	22	48	2
15VV1A0520	RT4105O	Hadoop & Big Data Lab	23	44	2
15VV1A0521	RT41051	Cryptography and Network Security	15	49	3
15VV1A0521	RT41052	UML & Design Patterns	23	40	3
15VV1A0521	RT41053	Mobile Computing	21	42	3
15VV1A0521	RT41057	Artificial Intelligence	27	40	2
15VV1A0521	RT4105B	Hadoop and Big Data	26	30	3
15VV1A0521	RT4105L	UML & Design Patterns Lab	23	46	2
15VV1A0521	RT4105M	Mobile Application Development Lab	22	46	2
15VV1A0521	RT4105N	Software Testing Lab	22	45	2
15VV1A0521	RT4105O	Hadoop & Big Data Lab	22	44	2
15VV1A0523	RT41051	Cryptography and Network Security	19	46	3
15VV1A0523	RT41052	UML & Design Patterns	23	43	3
15VV1A0523	RT41053	Mobile Computing	24	41	3
15VV1A0523	RT41057	Artificial Intelligence	29	39	2
15VV1A0523	RT4105B	Hadoop and Big Data	26	43	3
15VV1A0523	RT4105L	UML & Design Patterns Lab	23	48	2
15VV1A0523	RT4105M	Mobile Application Development Lab	22	49	2
15VV1A0523	RT4105N	Software Testing Lab	23	49	2
15VV1A0523	RT4105O	Hadoop & Big Data Lab	23	48	2
15VV1A0524	RT41051	Cryptography and Network Security	27	52	3
15VV1A0524	RT41052	UML & Design Patterns	23	36	3
15VV1A0524	RT41053	Mobile Computing	26	53	3
15VV1A0524	RT41057	Artificial Intelligence	29	50	2
15VV1A0524	RT4105B	Hadoop and Big Data	26	46	3
15VV1A0524	RT4105L	UML & Design Patterns Lab	23	48	2
15VV1A0524	RT4105M	Mobile Application Development Lab	24	48	2
15VV1A0524	RT4105N	Software Testing Lab	23	49	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0524	RT4105O	Hadoop & Big Data Lab	23	46	2
15VV1A0525	RT41051	Cryptography and Network Security	25	48	3
15VV1A0525	RT41052	UML & Design Patterns	29	54	3
15VV1A0525	RT41053	Mobile Computing	26	52	3
15VV1A0525	RT41057	Artificial Intelligence	27	49	2
15VV1A0525	RT4105B	Hadoop and Big Data	28	62	3
15VV1A0525	RT4105L	UML & Design Patterns Lab	24	49	2
15VV1A0525	RT4105M	Mobile Application Development Lab	24	50	2
15VV1A0525	RT4105N	Software Testing Lab	23	49	2
15VV1A0525	RT4105O	Hadoop & Big Data Lab	24	45	2
15VV1A0526	RT41051	Cryptography and Network Security	16	50	3
15VV1A0526	RT41052	UML & Design Patterns	23	35	3
15VV1A0526	RT41053	Mobile Computing	23	49	3
15VV1A0526	RT41057	Artificial Intelligence	28	41	2
15VV1A0526	RT4105B	Hadoop and Big Data	26	27	3
15VV1A0526	RT4105L	UML & Design Patterns Lab	21	45	2
15VV1A0526	RT4105M	Mobile Application Development Lab	21	45	2
15VV1A0526	RT4105N	Software Testing Lab	23	48	2
15VV1A0526	RT4105O	Hadoop & Big Data Lab	22	37	2
15VV1A0527	RT41051	Cryptography and Network Security	18	43	3
15VV1A0527	RT41052	UML & Design Patterns	23	27	3
15VV1A0527	RT41053	Mobile Computing	19	40	3
15VV1A0527	RT41057	Artificial Intelligence	26	39	2
15VV1A0527	RT4105B	Hadoop and Big Data	25	42	3
15VV1A0527	RT4105L	UML & Design Patterns Lab	23	46	2
15VV1A0527	RT4105M	Mobile Application Development Lab	23	44	2
15VV1A0527	RT4105N	Software Testing Lab	23	45	2
15VV1A0527	RT4105O	Hadoop & Big Data Lab	21	44	2
15VV1A0528	RT41051	Cryptography and Network Security	22	52	3
15VV1A0528	RT41052	UML & Design Patterns	24	41	3
15VV1A0528	RT41053	Mobile Computing	25	45	3
15VV1A0528	RT41057	Artificial Intelligence	27	52	2
15VV1A0528	RT4105B	Hadoop and Big Data	27	38	3
15VV1A0528	RT4105L	UML & Design Patterns Lab	25	49	2
15VV1A0528	RT4105M	Mobile Application Development Lab	22	49	2
15VV1A0528	RT4105N	Software Testing Lab	25	49	2
15VV1A0528	RT4105O	Hadoop & Big Data Lab	24	49	2
15VV1A0529	RT41051	Cryptography and Network Security	22	51	3
15VV1A0529	RT41052	UML & Design Patterns	30	42	3
15VV1A0529	RT41053	Mobile Computing	26	46	3
15VV1A0529	RT41057	Artificial Intelligence	28	46	2
15VV1A0529	RT4105B	Hadoop and Big Data	26	47	3
15VV1A0529	RT4105L	UML & Design Patterns Lab	25	48	2
15VV1A0529	RT4105M	Mobile Application Development Lab	24	49	2
15VV1A0529	RT4105N	Software Testing Lab	25	49	2
15VV1A0529	RT4105O	Hadoop & Big Data Lab	23	48	2
15VV1A0530	RT41051	Cryptography and Network Security	18	49	3
15VV1A0530	RT41052	UML & Design Patterns	29	44	3
15VV1A0530	RT41053	Mobile Computing	21	38	3
15VV1A0530	RT41057	Artificial Intelligence	28	34	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0530	RT4105B	Hadoop and Big Data	26	32	3
15VV1A0530	RT4105L	UML & Design Patterns Lab	24	48	2
15VV1A0530	RT4105M	Mobile Application Development Lab	24	45	2
15VV1A0530	RT4105N	Software Testing Lab	24	49	2
15VV1A0530	RT4105O	Hadoop & Big Data Lab	24	38	2
15VV1A0531	RT41051	Cryptography and Network Security	23	60	3
15VV1A0531	RT41052	UML & Design Patterns	24	52	3
15VV1A0531	RT41053	Mobile Computing	27	50	3
15VV1A0531	RT41057	Artificial Intelligence	30	59	2
15VV1A0531	RT4105B	Hadoop and Big Data	29	55	3
15VV1A0531	RT4105L	UML & Design Patterns Lab	25	50	2
15VV1A0531	RT4105M	Mobile Application Development Lab	25	50	2
15VV1A0531	RT4105N	Software Testing Lab	25	50	2
15VV1A0531	RT4105O	Hadoop & Big Data Lab	25	46	2
15VV1A0532	RT41051	Cryptography and Network Security	20	47	3
15VV1A0532	RT41052	UML & Design Patterns	28	45	3
15VV1A0532	RT41053	Mobile Computing	22	43	3
15VV1A0532	RT41057	Artificial Intelligence	24	44	2
15VV1A0532	RT4105B	Hadoop and Big Data	25	29	3
15VV1A0532	RT4105L	UML & Design Patterns Lab	23	46	2
15VV1A0532	RT4105M	Mobile Application Development Lab	17	41	2
15VV1A0532	RT4105N	Software Testing Lab	23	45	2
15VV1A0532	RT4105O	Hadoop & Big Data Lab	19	37	2
15VV1A0533	RT41051	Cryptography and Network Security	20	50	3
15VV1A0533	RT41052	UML & Design Patterns	29	48	3
15VV1A0533	RT41053	Mobile Computing	25	44	3
15VV1A0533	RT41057	Artificial Intelligence	25	42	2
15VV1A0533	RT4105B	Hadoop and Big Data	27	40	3
15VV1A0533	RT4105L	UML & Design Patterns Lab	23	46	2
15VV1A0533	RT4105M	Mobile Application Development Lab	24	44	2
15VV1A0533	RT4105N	Software Testing Lab	22	45	2
15VV1A0533	RT4105O	Hadoop & Big Data Lab	21	43	2
15VV1A0534	RT41051	Cryptography and Network Security	22	48	3
15VV1A0534	RT41052	UML & Design Patterns	28	48	3
15VV1A0534	RT41053	Mobile Computing	25	40	3
15VV1A0534	RT41057	Artificial Intelligence	29	32	2
15VV1A0534	RT4105B	Hadoop and Big Data	27	41	3
15VV1A0534	RT4105L	UML & Design Patterns Lab	23	47	2
15VV1A0534	RT4105M	Mobile Application Development Lab	23	43	2
15VV1A0534	RT4105N	Software Testing Lab	22	48	2
15VV1A0534	RT4105O	Hadoop & Big Data Lab	23	45	2
15VV1A0535	RT41051	Cryptography and Network Security	19	47	3
15VV1A0535	RT41052	UML & Design Patterns	30	40	3
15VV1A0535	RT41053	Mobile Computing	24	36	3
15VV1A0535	RT41057	Artificial Intelligence	28	54	2
15VV1A0535	RT4105B	Hadoop and Big Data	25	44	3
15VV1A0535	RT4105L	UML & Design Patterns Lab	24	48	2
15VV1A0535	RT4105M	Mobile Application Development Lab	24	46	2
15VV1A0535	RT4105N	Software Testing Lab	23	48	2
15VV1A0535	RT4105O	Hadoop & Big Data Lab	24	45	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0536	RT41051	Cryptography and Network Security	20	50	3
15VV1A0536	RT41052	UML & Design Patterns	25	48	3
15VV1A0536	RT41053	Mobile Computing	23	41	3
15VV1A0536	RT41057	Artificial Intelligence	27	33	2
15VV1A0536	RT4105B	Hadoop and Big Data	26	53	3
15VV1A0536	RT4105L	UML & Design Patterns Lab	25	48	2
15VV1A0536	RT4105M	Mobile Application Development Lab	23	48	2
15VV1A0536	RT4105N	Software Testing Lab	24	49	2
15VV1A0536	RT4105O	Hadoop & Big Data Lab	23	44	2
15VV1A0537	RT41051	Cryptography and Network Security	22	42	3
15VV1A0537	RT41052	UML & Design Patterns	29	48	3
15VV1A0537	RT41053	Mobile Computing	25	43	3
15VV1A0537	RT41057	Artificial Intelligence	28	42	2
15VV1A0537	RT4105B	Hadoop and Big Data	27	31	3
15VV1A0537	RT4105L	UML & Design Patterns Lab	25	50	2
15VV1A0537	RT4105M	Mobile Application Development Lab	24	48	2
15VV1A0537	RT4105N	Software Testing Lab	24	48	2
15VV1A0537	RT4105O	Hadoop & Big Data Lab	24	45	2
15VV1A0539	RT41051	Cryptography and Network Security	20	50	3
15VV1A0539	RT41052	UML & Design Patterns	28	47	3
15VV1A0539	RT41053	Mobile Computing	24	51	3
15VV1A0539	RT41057	Artificial Intelligence	25	43	2
15VV1A0539	RT4105B	Hadoop and Big Data	28	51	3
15VV1A0539	RT4105L	UML & Design Patterns Lab	23	46	2
15VV1A0539	RT4105M	Mobile Application Development Lab	24	48	2
15VV1A0539	RT4105N	Software Testing Lab	24	50	2
15VV1A0539	RT4105O	Hadoop & Big Data Lab	25	44	2
15VV1A0540	RT41051	Cryptography and Network Security	18	39	3
15VV1A0540	RT41052	UML & Design Patterns	28	47	3
15VV1A0540	RT41053	Mobile Computing	23	36	3
15VV1A0540	RT41057	Artificial Intelligence	25	30	2
15VV1A0540	RT4105B	Hadoop and Big Data	27	32	3
15VV1A0540	RT4105L	UML & Design Patterns Lab	21	46	2
15VV1A0540	RT4105M	Mobile Application Development Lab	18	45	2
15VV1A0540	RT4105N	Software Testing Lab	22	45	2
15VV1A0540	RT4105O	Hadoop & Big Data Lab	23	40	2
15VV1A0541	RT41051	Cryptography and Network Security	22	31	3
15VV1A0541	RT41052	UML & Design Patterns	28	38	3
15VV1A0541	RT41053	Mobile Computing	23	27	3
15VV1A0541	RT41057	Artificial Intelligence	26	37	2
15VV1A0541	RT4105B	Hadoop and Big Data	25	31	3
15VV1A0541	RT4105L	UML & Design Patterns Lab	21	44	2
15VV1A0541	RT4105M	Mobile Application Development Lab	17	43	2
15VV1A0541	RT4105N	Software Testing Lab	21	46	2
15VV1A0541	RT4105O	Hadoop & Big Data Lab	20	35	2
15VV1A0542	RT41051	Cryptography and Network Security	21	35	3
15VV1A0542	RT41052	UML & Design Patterns	26	44	3
15VV1A0542	RT41053	Mobile Computing	23	37	3
15VV1A0542	RT41057	Artificial Intelligence	25	38	2
15VV1A0542	RT4105B	Hadoop and Big Data	23	29	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0542	RT4105L	UML & Design Patterns Lab	21	46	2
15VV1A0542	RT4105M	Mobile Application Development Lab	22	46	2
15VV1A0542	RT4105N	Software Testing Lab	21	45	2
15VV1A0542	RT4105O	Hadoop & Big Data Lab	23	43	2
15VV1A0543	RT41051	Cryptography and Network Security	27	56	3
15VV1A0543	RT41052	UML & Design Patterns	30	50	3
15VV1A0543	RT41053	Mobile Computing	26	51	3
15VV1A0543	RT41057	Artificial Intelligence	27	58	2
15VV1A0543	RT4105B	Hadoop and Big Data	28	65	3
15VV1A0543	RT4105L	UML & Design Patterns Lab	25	48	2
15VV1A0543	RT4105M	Mobile Application Development Lab	23	48	2
15VV1A0543	RT4105N	Software Testing Lab	23	49	2
15VV1A0543	RT4105O	Hadoop & Big Data Lab	23	46	2
15VV1A0544	RT41051	Cryptography and Network Security	12	45	3
15VV1A0544	RT41052	UML & Design Patterns	15	34	3
15VV1A0544	RT41053	Mobile Computing	23	41	3
15VV1A0544	RT41057	Artificial Intelligence	23	41	2
15VV1A0544	RT4105B	Hadoop and Big Data	23	38	3
15VV1A0544	RT4105L	UML & Design Patterns Lab	21	44	2
15VV1A0544	RT4105M	Mobile Application Development Lab	16	45	2
15VV1A0544	RT4105N	Software Testing Lab	18	42	2
15VV1A0544	RT4105O	Hadoop & Big Data Lab	15	38	2
15VV1A0545	RT41051	Cryptography and Network Security	24	50	3
15VV1A0545	RT41052	UML & Design Patterns	24	36	3
15VV1A0545	RT41053	Mobile Computing	23	42	3
15VV1A0545	RT41057	Artificial Intelligence	26	43	2
15VV1A0545	RT4105B	Hadoop and Big Data	28	34	3
15VV1A0545	RT4105L	UML & Design Patterns Lab	25	46	2
15VV1A0545	RT4105M	Mobile Application Development Lab	22	46	2
15VV1A0545	RT4105N	Software Testing Lab	22	48	2
15VV1A0545	RT4105O	Hadoop & Big Data Lab	23	44	2
15VV1A0546	RT41051	Cryptography and Network Security	20	47	3
15VV1A0546	RT41052	UML & Design Patterns	25	31	3
15VV1A0546	RT41053	Mobile Computing	22	44	3
15VV1A0546	RT41057	Artificial Intelligence	26	40	2
15VV1A0546	RT4105B	Hadoop and Big Data	28	32	3
15VV1A0546	RT4105L	UML & Design Patterns Lab	24	46	2
15VV1A0546	RT4105M	Mobile Application Development Lab	18	47	2
15VV1A0546	RT4105N	Software Testing Lab	22	45	2
15VV1A0546	RT4105O	Hadoop & Big Data Lab	21	42	2
15VV1A0547	RT41051	Cryptography and Network Security	26	51	3
15VV1A0547	RT41052	UML & Design Patterns	29	47	3
15VV1A0547	RT41053	Mobile Computing	24	48	3
15VV1A0547	RT41057	Artificial Intelligence	28	44	2
15VV1A0547	RT4105B	Hadoop and Big Data	27	45	3
15VV1A0547	RT4105L	UML & Design Patterns Lab	24	46	2
15VV1A0547	RT4105M	Mobile Application Development Lab	21	45	2
15VV1A0547	RT4105N	Software Testing Lab	21	45	2
15VV1A0547	RT4105O	Hadoop & Big Data Lab	20	40	2
15VV1A0548	RT41051	Cryptography and Network Security	24	54	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A0548	RT41052	UML & Design Patterns	27	45	3
15VV1A0548	RT41053	Mobile Computing	25	50	3
15VV1A0548	RT41057	Artificial Intelligence	27	50	2
15VV1A0548	RT4105B	Hadoop and Big Data	27	51	3
15VV1A0548	RT4105L	UML & Design Patterns Lab	25	48	2
15VV1A0548	RT4105M	Mobile Application Development Lab	24	47	2
15VV1A0548	RT4105N	Software Testing Lab	23	47	2
15VV1A0548	RT4105O	Hadoop & Big Data Lab	24	44	2
15VV1A0550	RT41051	Cryptography and Network Security	24	47	3
15VV1A0550	RT41052	UML & Design Patterns	27	41	3
15VV1A0550	RT41053	Mobile Computing	24	49	3
15VV1A0550	RT41057	Artificial Intelligence	26	37	2
15VV1A0550	RT4105B	Hadoop and Big Data	27	52	3
15VV1A0550	RT4105L	UML & Design Patterns Lab	23	48	2
15VV1A0550	RT4105M	Mobile Application Development Lab	20	46	2
15VV1A0550	RT4105N	Software Testing Lab	23	49	2
15VV1A0550	RT4105O	Hadoop & Big Data Lab	23	44	2
15VV1A0552	RT41051	Cryptography and Network Security	25	30	3
15VV1A0552	RT41052	UML & Design Patterns	27	37	3
15VV1A0552	RT41053	Mobile Computing	23	44	3
15VV1A0552	RT41057	Artificial Intelligence	27	37	2
15VV1A0552	RT4105B	Hadoop and Big Data	28	28	3
15VV1A0552	RT4105L	UML & Design Patterns Lab	25	48	2
15VV1A0552	RT4105M	Mobile Application Development Lab	22	49	2
15VV1A0552	RT4105N	Software Testing Lab	22	49	2
15VV1A0552	RT4105O	Hadoop & Big Data Lab	22	45	2
15VV1A0553	RT41051	Cryptography and Network Security	19	17	0
15VV1A0553	RT41052	UML & Design Patterns	24	33	3
15VV1A0553	RT41053	Mobile Computing	17	16	0
15VV1A0553	RT41057	Artificial Intelligence	25	26	2
15VV1A0553	RT4105B	Hadoop and Big Data	26	24	3
15VV1A0553	RT4105L	UML & Design Patterns Lab	21	46	2
15VV1A0553	RT4105M	Mobile Application Development Lab	23	46	2
15VV1A0553	RT4105N	Software Testing Lab	21	44	2
15VV1A0553	RT4105O	Hadoop & Big Data Lab	21	38	2
15VV1A1202	RT41051	Cryptography and Network Security	25	41	3
15VV1A1202	RT41052	UML & Design Patterns	23	36	3
15VV1A1202	RT41053	Mobile Computing	21	41	3
15VV1A1202	RT41056	Information Retrieval Systems	21	30	3
15VV1A1202	RT4105B	Hadoop and Big Data	26	49	3
15VV1A1202	RT4112L	UML & Design Patterns Lab	22	42	2
15VV1A1202	RT4112M	Mobile Application Development Lab	21	44	2
15VV1A1202	RT4112N	Software Engineering Lab	21	42	2
15VV1A1202	RT4112O	Hadoop & Big Data Lab	20	40	2
15VV1A1203	RT41051	Cryptography and Network Security	16	44	3
15VV1A1203	RT41052	UML & Design Patterns	24	36	3
15VV1A1203	RT41053	Mobile Computing	20	48	3
15VV1A1203	RT41056	Information Retrieval Systems	20	39	3
15VV1A1203	RT4105B	Hadoop and Big Data	24	40	3
15VV1A1203	RT4112L	UML & Design Patterns Lab	23	44	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A1203	RT4112M	Mobile Application Development Lab	21	42	2
15VV1A1203	RT4112N	Software Engineering Lab	20	39	2
15VV1A1203	RT4112O	Hadoop & Big Data Lab	20	39	2
15VV1A1205	RT41051	Cryptography and Network Security	24	52	3
15VV1A1205	RT41052	UML & Design Patterns	25	36	3
15VV1A1205	RT41053	Mobile Computing	24	48	3
15VV1A1205	RT41056	Information Retrieval Systems	21	37	3
15VV1A1205	RT4105B	Hadoop and Big Data	26	45	3
15VV1A1205	RT4112L	UML & Design Patterns Lab	23	42	2
15VV1A1205	RT4112M	Mobile Application Development Lab	22	43	2
15VV1A1205	RT4112N	Software Engineering Lab	21	43	2
15VV1A1205	RT4112O	Hadoop & Big Data Lab	20	41	2
15VV1A1206	RT41051	Cryptography and Network Security	12	35	3
15VV1A1206	RT41052	UML & Design Patterns	25	30	3
15VV1A1206	RT41053	Mobile Computing	20	39	3
15VV1A1206	RT41056	Information Retrieval Systems	18	29	3
15VV1A1206	RT4105B	Hadoop and Big Data	24	42	3
15VV1A1206	RT4112L	UML & Design Patterns Lab	21	41	2
15VV1A1206	RT4112M	Mobile Application Development Lab	22	45	2
15VV1A1206	RT4112N	Software Engineering Lab	19	38	2
15VV1A1206	RT4112O	Hadoop & Big Data Lab	20	41	2
15VV1A1207	RT41051	Cryptography and Network Security	25	29	3
15VV1A1207	RT41052	UML & Design Patterns	24	32	3
15VV1A1207	RT41053	Mobile Computing	24	44	3
15VV1A1207	RT41056	Information Retrieval Systems	20	32	3
15VV1A1207	RT4105B	Hadoop and Big Data	24	40	3
15VV1A1207	RT4112L	UML & Design Patterns Lab	22	45	2
15VV1A1207	RT4112M	Mobile Application Development Lab	20	44	2
15VV1A1207	RT4112N	Software Engineering Lab	24	48	2
15VV1A1207	RT4112O	Hadoop & Big Data Lab	22	43	2
15VV1A1208	RT41051	Cryptography and Network Security	22	50	3
15VV1A1208	RT41052	UML & Design Patterns	24	47	3
15VV1A1208	RT41053	Mobile Computing	22	46	3
15VV1A1208	RT41056	Information Retrieval Systems	20	38	3
15VV1A1208	RT4105B	Hadoop and Big Data	25	38	3
15VV1A1208	RT4112L	UML & Design Patterns Lab	23	43	2
15VV1A1208	RT4112M	Mobile Application Development Lab	21	45	2
15VV1A1208	RT4112N	Software Engineering Lab	20	42	2
15VV1A1208	RT4112O	Hadoop & Big Data Lab	23	40	2
15VV1A1209	RT41051	Cryptography and Network Security	26	54	3
15VV1A1209	RT41052	UML & Design Patterns	26	44	3
15VV1A1209	RT41053	Mobile Computing	25	51	3
15VV1A1209	RT41056	Information Retrieval Systems	25	47	3
15VV1A1209	RT4105B	Hadoop and Big Data	26	49	3
15VV1A1209	RT4112L	UML & Design Patterns Lab	24	46	2
15VV1A1209	RT4112M	Mobile Application Development Lab	22	46	2
15VV1A1209	RT4112N	Software Engineering Lab	24	46	2
15VV1A1209	RT4112O	Hadoop & Big Data Lab	24	48	2
15VV1A1210	RT41051	Cryptography and Network Security	23	48	3
15VV1A1210	RT41052	UML & Design Patterns	26	31	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A1210	RT41053	Mobile Computing	23	42	3
15VV1A1210	RT41056	Information Retrieval Systems	20	42	3
15VV1A1210	RT4105B	Hadoop and Big Data	25	40	3
15VV1A1210	RT4112L	UML & Design Patterns Lab	23	41	2
15VV1A1210	RT4112M	Mobile Application Development Lab	21	44	2
15VV1A1210	RT4112N	Software Engineering Lab	20	39	2
15VV1A1210	RT4112O	Hadoop & Big Data Lab	21	40	2
15VV1A1211	RT41051	Cryptography and Network Security	28	41	3
15VV1A1211	RT41052	UML & Design Patterns	24	37	3
15VV1A1211	RT41053	Mobile Computing	27	45	3
15VV1A1211	RT41056	Information Retrieval Systems	26	35	3
15VV1A1211	RT4105B	Hadoop and Big Data	29	42	3
15VV1A1211	RT4112L	UML & Design Patterns Lab	24	48	2
15VV1A1211	RT4112M	Mobile Application Development Lab	24	49	2
15VV1A1211	RT4112N	Software Engineering Lab	24	49	2
15VV1A1211	RT4112O	Hadoop & Big Data Lab	24	48	2
15VV1A1212	RT41051	Cryptography and Network Security	20	40	3
15VV1A1212	RT41052	UML & Design Patterns	26	39	3
15VV1A1212	RT41053	Mobile Computing	23	46	3
15VV1A1212	RT41056	Information Retrieval Systems	24	42	3
15VV1A1212	RT4105B	Hadoop and Big Data	28	39	3
15VV1A1212	RT4112L	UML & Design Patterns Lab	24	46	2
15VV1A1212	RT4112M	Mobile Application Development Lab	22	47	2
15VV1A1212	RT4112N	Software Engineering Lab	22	43	2
15VV1A1212	RT4112O	Hadoop & Big Data Lab	22	43	2
15VV1A1213	RT41051	Cryptography and Network Security	20	38	3
15VV1A1213	RT41052	UML & Design Patterns	25	37	3
15VV1A1213	RT41053	Mobile Computing	24	34	3
15VV1A1213	RT41056	Information Retrieval Systems	19	30	3
15VV1A1213	RT4105B	Hadoop and Big Data	27	35	3
15VV1A1213	RT4112L	UML & Design Patterns Lab	23	42	2
15VV1A1213	RT4112M	Mobile Application Development Lab	20	44	2
15VV1A1213	RT4112N	Software Engineering Lab	22	41	2
15VV1A1213	RT4112O	Hadoop & Big Data Lab	20	40	2
15VV1A1214	RT41051	Cryptography and Network Security	24	40	3
15VV1A1214	RT41052	UML & Design Patterns	25	36	3
15VV1A1214	RT41053	Mobile Computing	27	45	3
15VV1A1214	RT41056	Information Retrieval Systems	21	38	3
15VV1A1214	RT4105B	Hadoop and Big Data	28	45	3
15VV1A1214	RT4112L	UML & Design Patterns Lab	23	40	2
15VV1A1214	RT4112M	Mobile Application Development Lab	22	46	2
15VV1A1214	RT4112N	Software Engineering Lab	19	39	2
15VV1A1214	RT4112O	Hadoop & Big Data Lab	21	40	2
15VV1A1215	RT41051	Cryptography and Network Security	25	40	3
15VV1A1215	RT41052	UML & Design Patterns	27	38	3
15VV1A1215	RT41053	Mobile Computing	25	53	3
15VV1A1215	RT41056	Information Retrieval Systems	21	43	3
15VV1A1215	RT4105B	Hadoop and Big Data	25	39	3
15VV1A1215	RT4112L	UML & Design Patterns Lab	24	41	2
15VV1A1215	RT4112M	Mobile Application Development Lab	23	46	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A1215	RT4112N	Software Engineering Lab	22	43	2
15VV1A1215	RT4112O	Hadoop & Big Data Lab	22	40	2
15VV1A1216	RT41051	Cryptography and Network Security	16	36	3
15VV1A1216	RT41052	UML & Design Patterns	26	30	3
15VV1A1216	RT41053	Mobile Computing	22	43	3
15VV1A1216	RT41056	Information Retrieval Systems	22	25	3
15VV1A1216	RT4105B	Hadoop and Big Data	28	18	0
15VV1A1216	RT4112L	UML & Design Patterns Lab	22	39	2
15VV1A1216	RT4112M	Mobile Application Development Lab	21	39	2
15VV1A1216	RT4112N	Software Engineering Lab	18	35	2
15VV1A1216	RT4112O	Hadoop & Big Data Lab	19	35	2
15VV1A1217	RT41051	Cryptography and Network Security	25	35	3
15VV1A1217	RT41052	UML & Design Patterns	24	30	3
15VV1A1217	RT41053	Mobile Computing	20	38	3
15VV1A1217	RT41056	Information Retrieval Systems	19	26	3
15VV1A1217	RT4105B	Hadoop and Big Data	24	38	3
15VV1A1217	RT4112L	UML & Design Patterns Lab	22	40	2
15VV1A1217	RT4112M	Mobile Application Development Lab	21	43	2
15VV1A1217	RT4112N	Software Engineering Lab	21	41	2
15VV1A1217	RT4112O	Hadoop & Big Data Lab	22	37	2
15VV1A1219	RT41051	Cryptography and Network Security	26	43	3
15VV1A1219	RT41052	UML & Design Patterns	25	38	3
15VV1A1219	RT41053	Mobile Computing	24	50	3
15VV1A1219	RT41056	Information Retrieval Systems	21	44	3
15VV1A1219	RT4105B	Hadoop and Big Data	28	46	3
15VV1A1219	RT4112L	UML & Design Patterns Lab	23	44	2
15VV1A1219	RT4112M	Mobile Application Development Lab	21	45	2
15VV1A1219	RT4112N	Software Engineering Lab	22	45	2
15VV1A1219	RT4112O	Hadoop & Big Data Lab	22	45	2
15VV1A1220	RT41051	Cryptography and Network Security	27	50	3
15VV1A1220	RT41052	UML & Design Patterns	25	42	3
15VV1A1220	RT41053	Mobile Computing	27	46	3
15VV1A1220	RT41056	Information Retrieval Systems	21	40	3
15VV1A1220	RT4105B	Hadoop and Big Data	28	45	3
15VV1A1220	RT4112L	UML & Design Patterns Lab	23	41	2
15VV1A1220	RT4112M	Mobile Application Development Lab	22	45	2
15VV1A1220	RT4112N	Software Engineering Lab	21	42	2
15VV1A1220	RT4112O	Hadoop & Big Data Lab	22	35	2
15VV1A1221	RT41051	Cryptography and Network Security	29	53	3
15VV1A1221	RT41052	UML & Design Patterns	26	53	3
15VV1A1221	RT41053	Mobile Computing	29	57	3
15VV1A1221	RT41056	Information Retrieval Systems	24	56	3
15VV1A1221	RT4105B	Hadoop and Big Data	27	54	3
15VV1A1221	RT4112L	UML & Design Patterns Lab	23	45	2
15VV1A1221	RT4112M	Mobile Application Development Lab	24	49	2
15VV1A1221	RT4112N	Software Engineering Lab	22	44	2
15VV1A1221	RT4112O	Hadoop & Big Data Lab	24	35	2
15VV1A1222	RT41051	Cryptography and Network Security	24	34	3
15VV1A1222	RT41052	UML & Design Patterns	25	36	3
15VV1A1222	RT41053	Mobile Computing	24	45	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A1222	RT41056	Information Retrieval Systems	26	37	3
15VV1A1222	RT4105B	Hadoop and Big Data	24	35	3
15VV1A1222	RT4112L	UML & Design Patterns Lab	23	46	2
15VV1A1222	RT4112M	Mobile Application Development Lab	21	48	2
15VV1A1222	RT4112N	Software Engineering Lab	20	40	2
15VV1A1222	RT4112O	Hadoop & Big Data Lab	22	42	2
15VV1A1223	RT41051	Cryptography and Network Security	28	44	3
15VV1A1223	RT41052	UML & Design Patterns	27	48	3
15VV1A1223	RT41053	Mobile Computing	25	46	3
15VV1A1223	RT41056	Information Retrieval Systems	22	44	3
15VV1A1223	RT4105B	Hadoop and Big Data	25	46	3
15VV1A1223	RT4112L	UML & Design Patterns Lab	23	45	2
15VV1A1223	RT4112M	Mobile Application Development Lab	24	48	2
15VV1A1223	RT4112N	Software Engineering Lab	24	48	2
15VV1A1223	RT4112O	Hadoop & Big Data Lab	23	44	2
15VV1A1224	RT41051	Cryptography and Network Security	29	54	3
15VV1A1224	RT41052	UML & Design Patterns	23	47	3
15VV1A1224	RT41053	Mobile Computing	24	60	3
15VV1A1224	RT41056	Information Retrieval Systems	20	44	3
15VV1A1224	RT4105B	Hadoop and Big Data	24	44	3
15VV1A1224	RT4112L	UML & Design Patterns Lab	23	48	2
15VV1A1224	RT4112M	Mobile Application Development Lab	23	47	2
15VV1A1224	RT4112N	Software Engineering Lab	23	46	2
15VV1A1224	RT4112O	Hadoop & Big Data Lab	24	45	2
15VV1A1225	RT41051	Cryptography and Network Security	26	43	3
15VV1A1225	RT41052	UML & Design Patterns	26	33	3
15VV1A1225	RT41053	Mobile Computing	24	50	3
15VV1A1225	RT41056	Information Retrieval Systems	20	27	3
15VV1A1225	RT4105B	Hadoop and Big Data	26	35	3
15VV1A1225	RT4112L	UML & Design Patterns Lab	23	44	2
15VV1A1225	RT4112M	Mobile Application Development Lab	22	43	2
15VV1A1225	RT4112N	Software Engineering Lab	20	42	2
15VV1A1225	RT4112O	Hadoop & Big Data Lab	24	44	2
15VV1A1226	RT41051	Cryptography and Network Security	28	44	3
15VV1A1226	RT41052	UML & Design Patterns	25	46	3
15VV1A1226	RT41053	Mobile Computing	30	50	3
15VV1A1226	RT41056	Information Retrieval Systems	27	46	3
15VV1A1226	RT4105B	Hadoop and Big Data	25	48	3
15VV1A1226	RT4112L	UML & Design Patterns Lab	23	47	2
15VV1A1226	RT4112M	Mobile Application Development Lab	23	47	2
15VV1A1226	RT4112N	Software Engineering Lab	25	50	2
15VV1A1226	RT4112O	Hadoop & Big Data Lab	24	49	2
15VV1A1227	RT41051	Cryptography and Network Security	25	43	3
15VV1A1227	RT41052	UML & Design Patterns	25	41	3
15VV1A1227	RT41053	Mobile Computing	24	47	3
15VV1A1227	RT41056	Information Retrieval Systems	20	41	3
15VV1A1227	RT4105B	Hadoop and Big Data	24	40	3
15VV1A1227	RT4112L	UML & Design Patterns Lab	22	44	2
15VV1A1227	RT4112M	Mobile Application Development Lab	23	47	2
15VV1A1227	RT4112N	Software Engineering Lab	22	44	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A1227	RT4112O	Hadoop & Big Data Lab	22	45	2
15VV1A1228	RT41051	Cryptography and Network Security	26	40	3
15VV1A1228	RT41052	UML & Design Patterns	24	41	3
15VV1A1228	RT41053	Mobile Computing	25	45	3
15VV1A1228	RT41056	Information Retrieval Systems	20	38	3
15VV1A1228	RT4105B	Hadoop and Big Data	26	43	3
15VV1A1228	RT4112L	UML & Design Patterns Lab	21	43	2
15VV1A1228	RT4112M	Mobile Application Development Lab	22	46	2
15VV1A1228	RT4112N	Software Engineering Lab	21	40	2
15VV1A1228	RT4112O	Hadoop & Big Data Lab	21	45	2
15VV1A1230	RT41051	Cryptography and Network Security	28	25	3
15VV1A1230	RT41052	UML & Design Patterns	23	29	3
15VV1A1230	RT41053	Mobile Computing	25	51	3
15VV1A1230	RT41056	Information Retrieval Systems	21	35	3
15VV1A1230	RT4105B	Hadoop and Big Data	26	48	3
15VV1A1230	RT4112L	UML & Design Patterns Lab	23	49	2
15VV1A1230	RT4112M	Mobile Application Development Lab	22	47	2
15VV1A1230	RT4112N	Software Engineering Lab	25	49	2
15VV1A1230	RT4112O	Hadoop & Big Data Lab	25	48	2
15VV1A1231	RT41051	Cryptography and Network Security	12	41	3
15VV1A1231	RT41052	UML & Design Patterns	25	35	3
15VV1A1231	RT41053	Mobile Computing	23	36	3
15VV1A1231	RT41056	Information Retrieval Systems	21	34	3
15VV1A1231	RT4105B	Hadoop and Big Data	17	44	3
15VV1A1231	RT4112L	UML & Design Patterns Lab	19	40	2
15VV1A1231	RT4112M	Mobile Application Development Lab	21	45	2
15VV1A1231	RT4112N	Software Engineering Lab	21	40	2
15VV1A1231	RT4112O	Hadoop & Big Data Lab	23	36	2
15VV1A1232	RT41051	Cryptography and Network Security	27	50	3
15VV1A1232	RT41052	UML & Design Patterns	27	49	3
15VV1A1232	RT41053	Mobile Computing	24	42	3
15VV1A1232	RT41056	Information Retrieval Systems	22	42	3
15VV1A1232	RT4105B	Hadoop and Big Data	25	47	3
15VV1A1232	RT4112L	UML & Design Patterns Lab	23	46	2
15VV1A1232	RT4112M	Mobile Application Development Lab	22	44	2
15VV1A1232	RT4112N	Software Engineering Lab	23	45	2
15VV1A1232	RT4112O	Hadoop & Big Data Lab	24	35	2
15VV1A1233	RT41051	Cryptography and Network Security	27	43	3
15VV1A1233	RT41052	UML & Design Patterns	23	46	3
15VV1A1233	RT41053	Mobile Computing	22	41	3
15VV1A1233	RT41056	Information Retrieval Systems	23	48	3
15VV1A1233	RT4105B	Hadoop and Big Data	24	40	3
15VV1A1233	RT4112L	UML & Design Patterns Lab	21	44	2
15VV1A1233	RT4112M	Mobile Application Development Lab	21	44	2
15VV1A1233	RT4112N	Software Engineering Lab	20	44	2
15VV1A1233	RT4112O	Hadoop & Big Data Lab	22	40	2
15VV1A1234	RT41051	Cryptography and Network Security	12	25	0
15VV1A1234	RT41052	UML & Design Patterns	24	28	3
15VV1A1234	RT41053	Mobile Computing	22	29	3
15VV1A1234	RT41056	Information Retrieval Systems	13	27	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A1234	RT4105B	Hadoop and Big Data	17	36	3
15VV1A1234	RT4112L	UML & Design Patterns Lab	19	37	2
15VV1A1234	RT4112M	Mobile Application Development Lab	20	39	2
15VV1A1234	RT4112N	Software Engineering Lab	22	41	2
15VV1A1234	RT4112O	Hadoop & Big Data Lab	19	35	2
15VV1A1235	RT41051	Cryptography and Network Security	25	43	3
15VV1A1235	RT41052	UML & Design Patterns	23	38	3
15VV1A1235	RT41053	Mobile Computing	24	47	3
15VV1A1235	RT41056	Information Retrieval Systems	18	39	3
15VV1A1235	RT4105B	Hadoop and Big Data	24	47	3
15VV1A1235	RT4112L	UML & Design Patterns Lab	20	41	2
15VV1A1235	RT4112M	Mobile Application Development Lab	22	44	2
15VV1A1235	RT4112N	Software Engineering Lab	23	44	2
15VV1A1235	RT4112O	Hadoop & Big Data Lab	23	35	2
15VV1A1237	RT41051	Cryptography and Network Security	28	43	3
15VV1A1237	RT41052	UML & Design Patterns	25	45	3
15VV1A1237	RT41053	Mobile Computing	25	50	3
15VV1A1237	RT41056	Information Retrieval Systems	25	43	3
15VV1A1237	RT4105B	Hadoop and Big Data	27	48	3
15VV1A1237	RT4112L	UML & Design Patterns Lab	24	48	2
15VV1A1237	RT4112M	Mobile Application Development Lab	23	47	2
15VV1A1237	RT4112N	Software Engineering Lab	24	48	2
15VV1A1237	RT4112O	Hadoop & Big Data Lab	24	39	2
15VV1A1238	RT41051	Cryptography and Network Security	28	54	3
15VV1A1238	RT41052	UML & Design Patterns	24	50	3
15VV1A1238	RT41053	Mobile Computing	22	55	3
15VV1A1238	RT41056	Information Retrieval Systems	22	46	3
15VV1A1238	RT4105B	Hadoop and Big Data	27	50	3
15VV1A1238	RT4112L	UML & Design Patterns Lab	23	38	2
15VV1A1238	RT4112M	Mobile Application Development Lab	20	39	2
15VV1A1238	RT4112N	Software Engineering Lab	18	36	2
15VV1A1238	RT4112O	Hadoop & Big Data Lab	22	38	2
15VV1A1239	RT41051	Cryptography and Network Security	25	55	3
15VV1A1239	RT41052	UML & Design Patterns	26	53	3
15VV1A1239	RT41053	Mobile Computing	24	50	3
15VV1A1239	RT41056	Information Retrieval Systems	25	46	3
15VV1A1239	RT4105B	Hadoop and Big Data	26	48	3
15VV1A1239	RT4112L	UML & Design Patterns Lab	23	45	2
15VV1A1239	RT4112M	Mobile Application Development Lab	22	46	2
15VV1A1239	RT4112N	Software Engineering Lab	22	45	2
15VV1A1239	RT4112O	Hadoop & Big Data Lab	22	45	2
15VV1A1240	RT41051	Cryptography and Network Security	24	27	3
15VV1A1240	RT41052	UML & Design Patterns	27	25	3
15VV1A1240	RT41053	Mobile Computing	26	34	3
15VV1A1240	RT41056	Information Retrieval Systems	24	12	0
15VV1A1240	RT4105B	Hadoop and Big Data	27	32	3
15VV1A1240	RT4112L	UML & Design Patterns Lab	23	43	2
15VV1A1240	RT4112M	Mobile Application Development Lab	20	45	2
15VV1A1240	RT4112N	Software Engineering Lab	21	41	2
15VV1A1240	RT4112O	Hadoop & Big Data Lab	23	43	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A1241	RT41051	Cryptography and Network Security	24	33	3
15VV1A1241	RT41052	UML & Design Patterns	26	31	3
15VV1A1241	RT41053	Mobile Computing	24	45	3
15VV1A1241	RT41056	Information Retrieval Systems	22	33	3
15VV1A1241	RT4105B	Hadoop and Big Data	26	37	3
15VV1A1241	RT4112L	UML & Design Patterns Lab	22	43	2
15VV1A1241	RT4112M	Mobile Application Development Lab	22	46	2
15VV1A1241	RT4112N	Software Engineering Lab	22	42	2
15VV1A1241	RT4112O	Hadoop & Big Data Lab	23	45	2
15VV1A1242	RT41051	Cryptography and Network Security	24	46	3
15VV1A1242	RT41052	UML & Design Patterns	27	35	3
15VV1A1242	RT41053	Mobile Computing	24	42	3
15VV1A1242	RT41056	Information Retrieval Systems	21	41	3
15VV1A1242	RT4105B	Hadoop and Big Data	26	45	3
15VV1A1242	RT4112L	UML & Design Patterns Lab	22	45	2
15VV1A1242	RT4112M	Mobile Application Development Lab	21	47	2
15VV1A1242	RT4112N	Software Engineering Lab	22	41	2
15VV1A1242	RT4112O	Hadoop & Big Data Lab	23	45	2
15VV1A1243	RT41051	Cryptography and Network Security	29	54	3
15VV1A1243	RT41052	UML & Design Patterns	24	46	3
15VV1A1243	RT41053	Mobile Computing	23	53	3
15VV1A1243	RT41056	Information Retrieval Systems	21	33	3
15VV1A1243	RT4105B	Hadoop and Big Data	27	45	3
15VV1A1243	RT4112L	UML & Design Patterns Lab	24	46	2
15VV1A1243	RT4112M	Mobile Application Development Lab	21	45	2
15VV1A1243	RT4112N	Software Engineering Lab	22	42	2
15VV1A1243	RT4112O	Hadoop & Big Data Lab	23	45	2
15VV1A1244	RT41051	Cryptography and Network Security	28	51	3
15VV1A1244	RT41052	UML & Design Patterns	27	41	3
15VV1A1244	RT41053	Mobile Computing	24	55	3
15VV1A1244	RT41056	Information Retrieval Systems	22	42	3
15VV1A1244	RT4105B	Hadoop and Big Data	28	48	3
15VV1A1244	RT4112L	UML & Design Patterns Lab	23	48	2
15VV1A1244	RT4112M	Mobile Application Development Lab	22	46	2
15VV1A1244	RT4112N	Software Engineering Lab	23	47	2
15VV1A1244	RT4112O	Hadoop & Big Data Lab	24	46	2
15VV1A1245	RT41051	Cryptography and Network Security	16	44	3
15VV1A1245	RT41052	UML & Design Patterns	25	38	3
15VV1A1245	RT41053	Mobile Computing	24	37	3
15VV1A1245	RT41056	Information Retrieval Systems	18	35	3
15VV1A1245	RT4105B	Hadoop and Big Data	25	44	3
15VV1A1245	RT4112L	UML & Design Patterns Lab	20	44	2
15VV1A1245	RT4112M	Mobile Application Development Lab	21	44	2
15VV1A1245	RT4112N	Software Engineering Lab	21	43	2
15VV1A1245	RT4112O	Hadoop & Big Data Lab	23	43	2
15VV1A1246	RT41051	Cryptography and Network Security	17	26	3
15VV1A1246	RT41052	UML & Design Patterns	23	33	3
15VV1A1246	RT41053	Mobile Computing	21	46	3
15VV1A1246	RT41056	Information Retrieval Systems	20	39	3
15VV1A1246	RT4105B	Hadoop and Big Data	26	37	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A1246	RT4112L	UML & Design Patterns Lab	19	45	2
15VV1A1246	RT4112M	Mobile Application Development Lab	20	44	2
15VV1A1246	RT4112N	Software Engineering Lab	21	42	2
15VV1A1246	RT4112O	Hadoop & Big Data Lab	23	37	2
15VV1A1247	RT41051	Cryptography and Network Security	25	39	3
15VV1A1247	RT41052	UML & Design Patterns	23	30	3
15VV1A1247	RT41053	Mobile Computing	22	39	3
15VV1A1247	RT41056	Information Retrieval Systems	19	33	3
15VV1A1247	RT4105B	Hadoop and Big Data	28	34	3
15VV1A1247	RT4112L	UML & Design Patterns Lab	21	42	2
15VV1A1247	RT4112M	Mobile Application Development Lab	20	44	2
15VV1A1247	RT4112N	Software Engineering Lab	23	40	2
15VV1A1247	RT4112O	Hadoop & Big Data Lab	20	43	2
15VV1A1248	RT41051	Cryptography and Network Security	27	54	3
15VV1A1248	RT41052	UML & Design Patterns	26	46	3
15VV1A1248	RT41053	Mobile Computing	24	48	3
15VV1A1248	RT41056	Information Retrieval Systems	26	44	3
15VV1A1248	RT4105B	Hadoop and Big Data	27	48	3
15VV1A1248	RT4112L	UML & Design Patterns Lab	24	49	2
15VV1A1248	RT4112M	Mobile Application Development Lab	22	48	2
15VV1A1248	RT4112N	Software Engineering Lab	23	49	2
15VV1A1248	RT4112O	Hadoop & Big Data Lab	24	43	2
15VV1A1249	RT41051	Cryptography and Network Security	20	40	3
15VV1A1249	RT41052	UML & Design Patterns	23	35	3
15VV1A1249	RT41053	Mobile Computing	22	48	3
15VV1A1249	RT41056	Information Retrieval Systems	19	34	3
15VV1A1249	RT4105B	Hadoop and Big Data	27	38	3
15VV1A1249	RT4112L	UML & Design Patterns Lab	20	45	2
15VV1A1249	RT4112M	Mobile Application Development Lab	20	45	2
15VV1A1249	RT4112N	Software Engineering Lab	22	42	2
15VV1A1249	RT4112O	Hadoop & Big Data Lab	21	36	2
15VV1A1250	RT41051	Cryptography and Network Security	27	51	3
15VV1A1250	RT41052	UML & Design Patterns	27	48	3
15VV1A1250	RT41053	Mobile Computing	24	55	3
15VV1A1250	RT41056	Information Retrieval Systems	24	38	3
15VV1A1250	RT4105B	Hadoop and Big Data	25	45	3
15VV1A1250	RT4112L	UML & Design Patterns Lab	23	46	2
15VV1A1250	RT4112M	Mobile Application Development Lab	22	47	2
15VV1A1250	RT4112N	Software Engineering Lab	23	46	2
15VV1A1250	RT4112O	Hadoop & Big Data Lab	22	43	2
15VV1A1251	RT41051	Cryptography and Network Security	27	46	3
15VV1A1251	RT41052	UML & Design Patterns	26	43	3
15VV1A1251	RT41053	Mobile Computing	22	46	3
15VV1A1251	RT41056	Information Retrieval Systems	24	49	3
15VV1A1251	RT4105B	Hadoop and Big Data	25	43	3
15VV1A1251	RT4112L	UML & Design Patterns Lab	24	46	2
15VV1A1251	RT4112M	Mobile Application Development Lab	21	47	2
15VV1A1251	RT4112N	Software Engineering Lab	23	43	2
15VV1A1251	RT4112O	Hadoop & Big Data Lab	22	43	2
15VV1A1252	RT41051	Cryptography and Network Security	26	50	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A1252	RT41052	UML & Design Patterns	26	54	3
15VV1A1252	RT41053	Mobile Computing	25	48	3
15VV1A1252	RT41056	Information Retrieval Systems	21	35	3
15VV1A1252	RT4105B	Hadoop and Big Data	28	42	3
15VV1A1252	RT4112L	UML & Design Patterns Lab	24	44	2
15VV1A1252	RT4112M	Mobile Application Development Lab	22	46	2
15VV1A1252	RT4112N	Software Engineering Lab	22	41	2
15VV1A1252	RT4112O	Hadoop & Big Data Lab	23	40	2
15VV1A1253	RT41051	Cryptography and Network Security	19	36	3
15VV1A1253	RT41052	UML & Design Patterns	26	37	3
15VV1A1253	RT41053	Mobile Computing	23	42	3
15VV1A1253	RT41056	Information Retrieval Systems	24	32	3
15VV1A1253	RT4105B	Hadoop and Big Data	24	32	3
15VV1A1253	RT4112L	UML & Design Patterns Lab	24	45	2
15VV1A1253	RT4112M	Mobile Application Development Lab	20	46	2
15VV1A1253	RT4112N	Software Engineering Lab	20	40	2
15VV1A1253	RT4112O	Hadoop & Big Data Lab	23	43	2
15VV1A1254	RT41051	Cryptography and Network Security	25	37	3
15VV1A1254	RT41052	UML & Design Patterns	24	34	3
15VV1A1254	RT41053	Mobile Computing	23	50	3
15VV1A1254	RT41056	Information Retrieval Systems	23	43	3
15VV1A1254	RT4105B	Hadoop and Big Data	28	51	3
15VV1A1254	RT4112L	UML & Design Patterns Lab	23	45	2
15VV1A1254	RT4112M	Mobile Application Development Lab	22	47	2
15VV1A1254	RT4112N	Software Engineering Lab	23	45	2
15VV1A1254	RT4112O	Hadoop & Big Data Lab	24	43	2
15VV1A1255	RT41051	Cryptography and Network Security	16	42	3
15VV1A1255	RT41052	UML & Design Patterns	24	34	3
15VV1A1255	RT41053	Mobile Computing	23	45	3
15VV1A1255	RT41056	Information Retrieval Systems	20	28	3
15VV1A1255	RT4105B	Hadoop and Big Data	26	38	3
15VV1A1255	RT4112L	UML & Design Patterns Lab	24	46	2
15VV1A1255	RT4112M	Mobile Application Development Lab	23	47	2
15VV1A1255	RT4112N	Software Engineering Lab	22	44	2
15VV1A1255	RT4112O	Hadoop & Big Data Lab	23	41	2
15VV1A1256	RT41051	Cryptography and Network Security	24	51	3
15VV1A1256	RT41052	UML & Design Patterns	25	50	3
15VV1A1256	RT41053	Mobile Computing	24	46	3
15VV1A1256	RT41056	Information Retrieval Systems	26	43	3
15VV1A1256	RT4105B	Hadoop and Big Data	25	49	3
15VV1A1256	RT4112L	UML & Design Patterns Lab	22	47	2
15VV1A1256	RT4112M	Mobile Application Development Lab	23	48	2
15VV1A1256	RT4112N	Software Engineering Lab	24	48	2
15VV1A1256	RT4112O	Hadoop & Big Data Lab	23	48	2
15VV1A1257	RT41051	Cryptography and Network Security	24	40	3
15VV1A1257	RT41052	UML & Design Patterns	28	32	3
15VV1A1257	RT41053	Mobile Computing	27	40	3
15VV1A1257	RT41056	Information Retrieval Systems	23	24	3
15VV1A1257	RT4105B	Hadoop and Big Data	26	40	3
15VV1A1257	RT4112L	UML & Design Patterns Lab	22	48	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A1257	RT4112M	Mobile Application Development Lab	22	46	2
15VV1A1257	RT4112N	Software Engineering Lab	23	46	2
15VV1A1257	RT4112O	Hadoop & Big Data Lab	22	45	2
15VV1A3101	MT4101	Metal Forming & Press Tools	26	55	3
15VV1A3101	MT4102	Electro Mettallurgy & Corrosion	24	48	3
15VV1A3101	MT4103	Computer Applications in Metallurgy & Mater	22	52	3
15VV1A3101	MT4104	Powder Metallurgy	26	51	3
15VV1A3101	MT4105	Non - Conventional Sources of Energy	23	52	3
15VV1A3101	MT4110	Fracture Mechanics	25	50	3
15VV1A3101	MT4111	Metal Forming & Press Tools Lab	21	41	2
15VV1A3101	MT4112	Electro Metallurgy and Corrosion Lab	19	37	2
15VV1A3102	MT4101	Metal Forming & Press Tools	24	41	3
15VV1A3102	MT4102	Electro Mettallurgy & Corrosion	14	48	3
15VV1A3102	MT4103	Computer Applications in Metallurgy & Mater	27	36	3
15VV1A3102	MT4104	Powder Metallurgy	20	45	3
15VV1A3102	MT4105	Non - Conventional Sources of Energy	25	55	3
15VV1A3102	MT4110	Fracture Mechanics	19	48	3
15VV1A3102	MT4111	Metal Forming & Press Tools Lab	19	39	2
15VV1A3102	MT4112	Electro Metallurgy and Corrosion Lab	18	25	2
15VV1A3103	MT4101	Metal Forming & Press Tools	14	47	3
15VV1A3103	MT4102	Electro Mettallurgy & Corrosion	12	42	3
15VV1A3103	MT4103	Computer Applications in Metallurgy & Mater	18	40	3
15VV1A3103	MT4104	Powder Metallurgy	13	33	3
15VV1A3103	MT4105	Non - Conventional Sources of Energy	16	46	3
15VV1A3103	MT4110	Fracture Mechanics	21	38	3
15VV1A3103	MT4111	Metal Forming & Press Tools Lab	20	38	2
15VV1A3103	MT4112	Electro Metallurgy and Corrosion Lab	18	28	2
15VV1A3104	MT4101	Metal Forming & Press Tools	23	59	3
15VV1A3104	MT4102	Electro Mettallurgy & Corrosion	23	52	3
15VV1A3104	MT4103	Computer Applications in Metallurgy & Mater	25	52	3
15VV1A3104	MT4104	Powder Metallurgy	26	51	3
15VV1A3104	MT4105	Non - Conventional Sources of Energy	26	66	3
15VV1A3104	MT4110	Fracture Mechanics	27	54	3
15VV1A3104	MT4111	Metal Forming & Press Tools Lab	19	41	2
15VV1A3104	MT4112	Electro Metallurgy and Corrosion Lab	18	32	2
15VV1A3105	MT4101	Metal Forming & Press Tools	23	43	3
15VV1A3105	MT4102	Electro Mettallurgy & Corrosion	20	42	3
15VV1A3105	MT4103	Computer Applications in Metallurgy & Mater	26	44	3
15VV1A3105	MT4104	Powder Metallurgy	25	26	3
15VV1A3105	MT4105	Non - Conventional Sources of Energy	25	45	3
15VV1A3105	MT4110	Fracture Mechanics	23	38	3
15VV1A3105	MT4111	Metal Forming & Press Tools Lab	19	38	2
15VV1A3105	MT4112	Electro Metallurgy and Corrosion Lab	18	23	2
15VV1A3106	MT4101	Metal Forming & Press Tools	26	61	3
15VV1A3106	MT4102	Electro Mettallurgy & Corrosion	27	50	3
15VV1A3106	MT4103	Computer Applications in Metallurgy & Mater	28	56	3
15VV1A3106	MT4104	Powder Metallurgy	28	62	3
15VV1A3106	MT4105	Non - Conventional Sources of Energy	23	44	3
15VV1A3106	MT4110	Fracture Mechanics	30	52	3
15VV1A3106	MT4111	Metal Forming & Press Tools Lab	23	41	2

Htno	Subcode	Subname	Internal	External	Credits
15VV1A3106	MT4112	Electro Metallurgy and Corrosion Lab	21	40	2
15VV1A3107	MT4101	Metal Forming & Press Tools	27	57	3
15VV1A3107	MT4102	Electro Mettallurgy & Corrosion	25	52	3
15VV1A3107	MT4103	Computer Applications in Metallurgy & Mater	27	50	3
15VV1A3107	MT4104	Powder Metallurgy	28	52	3
15VV1A3107	MT4105	Non - Conventional Sources of Energy	24	62	3
15VV1A3107	MT4110	Fracture Mechanics	26	52	3
15VV1A3107	MT4111	Metal Forming & Press Tools Lab	23	43	2
15VV1A3107	MT4112	Electro Metallurgy and Corrosion Lab	23	39	2
15VV1A3108	MT4101	Metal Forming & Press Tools	27	55	3
15VV1A3108	MT4102	Electro Mettallurgy & Corrosion	24	46	3
15VV1A3108	MT4103	Computer Applications in Metallurgy & Mater	26	56	3
15VV1A3108	MT4104	Powder Metallurgy	26	59	3
15VV1A3108	MT4105	Non - Conventional Sources of Energy	26	65	3
15VV1A3108	MT4110	Fracture Mechanics	27	52	3
15VV1A3108	MT4111	Metal Forming & Press Tools Lab	21	45	2
15VV1A3108	MT4112	Electro Metallurgy and Corrosion Lab	23	41	2
15VV1A3109	MT4101	Metal Forming & Press Tools	27	61	3
15VV1A3109	MT4102	Electro Mettallurgy & Corrosion	27	52	3
15VV1A3109	MT4103	Computer Applications in Metallurgy & Mater	28	60	3
15VV1A3109	MT4104	Powder Metallurgy	27	60	3
15VV1A3109	MT4105	Non - Conventional Sources of Energy	27	62	3
15VV1A3109	MT4110	Fracture Mechanics	27	60	3
15VV1A3109	MT4111	Metal Forming & Press Tools Lab	24	47	2
15VV1A3109	MT4112	Electro Metallurgy and Corrosion Lab	23	40	2
15VV1A3110	MT4101	Metal Forming & Press Tools	26	58	3
15VV1A3110	MT4102	Electro Mettallurgy & Corrosion	26	54	3
15VV1A3110	MT4103	Computer Applications in Metallurgy & Mater	27	52	3
15VV1A3110	MT4104	Powder Metallurgy	25	60	3
15VV1A3110	MT4105	Non - Conventional Sources of Energy	26	67	3
15VV1A3110	MT4110	Fracture Mechanics	24	56	3
15VV1A3110	MT4111	Metal Forming & Press Tools Lab	22	44	2
15VV1A3110	MT4112	Electro Metallurgy and Corrosion Lab	23	40	2
15VV1A3111	MT4101	Metal Forming & Press Tools	19	41	3
15VV1A3111	MT4102	Electro Mettallurgy & Corrosion	16	50	3
15VV1A3111	MT4103	Computer Applications in Metallurgy & Mater	22	52	3
15VV1A3111	MT4104	Powder Metallurgy	26	53	3
15VV1A3111	MT4105	Non - Conventional Sources of Energy	19	57	3
15VV1A3111	MT4110	Fracture Mechanics	23	54	3
15VV1A3111	MT4111	Metal Forming & Press Tools Lab	17	33	2
15VV1A3111	MT4112	Electro Metallurgy and Corrosion Lab	18	30	2
15VV1A3112	MT4101	Metal Forming & Press Tools	26	62	3
15VV1A3112	MT4102	Electro Mettallurgy & Corrosion	28	48	3
15VV1A3112	MT4103	Computer Applications in Metallurgy & Mater	26	57	3
15VV1A3112	MT4104	Powder Metallurgy	26	60	3
15VV1A3112	MT4105	Non - Conventional Sources of Energy	25	66	3
15VV1A3112	MT4110	Fracture Mechanics	26	50	3
15VV1A3112	MT4111	Metal Forming & Press Tools Lab	22	43	2
15VV1A3112	MT4112	Electro Metallurgy and Corrosion Lab	23	40	2
15VV1A3114	MT4101	Metal Forming & Press Tools	27	44	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A3114	MT4102	Electro Mettallurgy & Corrosion	21	48	3
15VV1A3114	MT4103	Computer Applications in Metallurgy & Mater	27	49	3
15VV1A3114	MT4104	Powder Metallurgy	25	43	3
15VV1A3114	MT4105	Non - Conventional Sources of Energy	24	51	3
15VV1A3114	MT4110	Fracture Mechanics	22	52	3
15VV1A3114	MT4111	Metal Forming & Press Tools Lab	23	46	2
15VV1A3114	MT4112	Electro Metallurgy and Corrosion Lab	22	44	2
15VV1A3115	MT4101	Metal Forming & Press Tools	21	51	3
15VV1A3115	MT4102	Electro Mettallurgy & Corrosion	24	48	3
15VV1A3115	MT4103	Computer Applications in Metallurgy & Mater	22	55	3
15VV1A3115	MT4104	Powder Metallurgy	27	53	3
15VV1A3115	MT4105	Non - Conventional Sources of Energy	18	55	3
15VV1A3115	MT4110	Fracture Mechanics	29	46	3
15VV1A3115	MT4111	Metal Forming & Press Tools Lab	21	46	2
15VV1A3115	MT4112	Electro Metallurgy and Corrosion Lab	20	40	2
15VV1A3116	MT4101	Metal Forming & Press Tools	20	55	3
15VV1A3116	MT4102	Electro Mettallurgy & Corrosion	21	38	3
15VV1A3116	MT4103	Computer Applications in Metallurgy & Mater	21	43	3
15VV1A3116	MT4104	Powder Metallurgy	25	39	3
15VV1A3116	MT4105	Non - Conventional Sources of Energy	18	44	3
15VV1A3116	MT4110	Fracture Mechanics	21	46	3
15VV1A3116	MT4111	Metal Forming & Press Tools Lab	21	43	2
15VV1A3116	MT4112	Electro Metallurgy and Corrosion Lab	21	34	2
15VV1A3117	MT4101	Metal Forming & Press Tools	25	52	3
15VV1A3117	MT4102	Electro Mettallurgy & Corrosion	20	48	3
15VV1A3117	MT4103	Computer Applications in Metallurgy & Mater	23	50	3
15VV1A3117	MT4104	Powder Metallurgy	25	58	3
15VV1A3117	MT4105	Non - Conventional Sources of Energy	22	61	3
15VV1A3117	MT4110	Fracture Mechanics	18	48	3
15VV1A3117	MT4111	Metal Forming & Press Tools Lab	22	43	2
15VV1A3117	MT4112	Electro Metallurgy and Corrosion Lab	23	31	2
15VV1A3118	MT4101	Metal Forming & Press Tools	25	58	3
15VV1A3118	MT4102	Electro Mettallurgy & Corrosion	22	48	3
15VV1A3118	MT4103	Computer Applications in Metallurgy & Mater	27	53	3
15VV1A3118	MT4104	Powder Metallurgy	26	48	3
15VV1A3118	MT4105	Non - Conventional Sources of Energy	24	62	3
15VV1A3118	MT4110	Fracture Mechanics	20	56	3
15VV1A3118	MT4111	Metal Forming & Press Tools Lab	23	46	2
15VV1A3118	MT4112	Electro Metallurgy and Corrosion Lab	23	36	2
15VV1A3119	MT4101	Metal Forming & Press Tools	18	45	3
15VV1A3119	MT4102	Electro Mettallurgy & Corrosion	21	48	3
15VV1A3119	MT4103	Computer Applications in Metallurgy & Mater	22	39	3
15VV1A3119	MT4104	Powder Metallurgy	18	33	3
15VV1A3119	MT4105	Non - Conventional Sources of Energy	21	53	3
15VV1A3119	MT4110	Fracture Mechanics	25	48	3
15VV1A3119	MT4111	Metal Forming & Press Tools Lab	19	39	2
15VV1A3119	MT4112	Electro Metallurgy and Corrosion Lab	18	30	2
15VV1A3120	MT4101	Metal Forming & Press Tools	23	57	3
15VV1A3120	MT4102	Electro Mettallurgy & Corrosion	23	50	3
15VV1A3120	MT4103	Computer Applications in Metallurgy & Mater	24	56	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A3120	MT4104	Powder Metallurgy	24	53	3
15VV1A3120	MT4105	Non - Conventional Sources of Energy	22	44	3
15VV1A3120	MT4110	Fracture Mechanics	23	50	3
15VV1A3120	MT4111	Metal Forming & Press Tools Lab	22	45	2
15VV1A3120	MT4112	Electro Metallurgy and Corrosion Lab	23	35	2
15VV1A3121	MT4101	Metal Forming & Press Tools	18	51	3
15VV1A3121	MT4102	Electro Mettallurgy & Corrosion	23	52	3
15VV1A3121	MT4103	Computer Applications in Metallurgy & Mater	21	39	3
15VV1A3121	MT4104	Powder Metallurgy	17	51	3
15VV1A3121	MT4105	Non - Conventional Sources of Energy	16	60	3
15VV1A3121	MT4110	Fracture Mechanics	19	50	3
15VV1A3121	MT4111	Metal Forming & Press Tools Lab	19	41	2
15VV1A3121	MT4112	Electro Metallurgy and Corrosion Lab	21	36	2
15VV1A3122	MT4101	Metal Forming & Press Tools	21	52	3
15VV1A3122	MT4102	Electro Mettallurgy & Corrosion	23	48	3
15VV1A3122	MT4103	Computer Applications in Metallurgy & Mater	26	58	3
15VV1A3122	MT4104	Powder Metallurgy	25	53	3
15VV1A3122	MT4105	Non - Conventional Sources of Energy	22	56	3
15VV1A3122	MT4110	Fracture Mechanics	25	52	3
15VV1A3122	MT4111	Metal Forming & Press Tools Lab	17	37	2
15VV1A3122	MT4112	Electro Metallurgy and Corrosion Lab	21	30	2
15VV1A3123	MT4101	Metal Forming & Press Tools	17	43	3
15VV1A3123	MT4102	Electro Mettallurgy & Corrosion	18	48	3
15VV1A3123	MT4103	Computer Applications in Metallurgy & Mater	21	42	3
15VV1A3123	MT4104	Powder Metallurgy	23	45	3
15VV1A3123	MT4105	Non - Conventional Sources of Energy	24	48	3
15VV1A3123	MT4110	Fracture Mechanics	20	40	3
15VV1A3123	MT4111	Metal Forming & Press Tools Lab	15	35	2
15VV1A3123	MT4112	Electro Metallurgy and Corrosion Lab	21	34	2
15VV1A3124	MT4101	Metal Forming & Press Tools	25	29	3
15VV1A3124	MT4102	Electro Mettallurgy & Corrosion	22	50	3
15VV1A3124	MT4103	Computer Applications in Metallurgy & Mater	26	47	3
15VV1A3124	MT4104	Powder Metallurgy	27	42	3
15VV1A3124	MT4105	Non - Conventional Sources of Energy	21	48	3
15VV1A3124	MT4110	Fracture Mechanics	26	50	3
15VV1A3124	MT4111	Metal Forming & Press Tools Lab	17	38	2
15VV1A3124	MT4112	Electro Metallurgy and Corrosion Lab	21	30	2
15VV1A3125	MT4101	Metal Forming & Press Tools	22	56	3
15VV1A3125	MT4102	Electro Mettallurgy & Corrosion	22	42	3
15VV1A3125	MT4103	Computer Applications in Metallurgy & Mater	23	39	3
15VV1A3125	MT4104	Powder Metallurgy	17	26	3
15VV1A3125	MT4105	Non - Conventional Sources of Energy	15	48	3
15VV1A3125	MT4110	Fracture Mechanics	23	42	3
15VV1A3125	MT4111	Metal Forming & Press Tools Lab	22	43	2
15VV1A3125	MT4112	Electro Metallurgy and Corrosion Lab	23	34	2
15VV1A3126	MT4101	Metal Forming & Press Tools	26	57	3
15VV1A3126	MT4102	Electro Mettallurgy & Corrosion	25	50	3
15VV1A3126	MT4103	Computer Applications in Metallurgy & Mater	22	58	3
15VV1A3126	MT4104	Powder Metallurgy	28	54	3
15VV1A3126	MT4105	Non - Conventional Sources of Energy	21	45	3

Htno	Subcode	Subname	Internal	External	Credits
15VV1A3126	MT4110	Fracture Mechanics	25	50	3
15VV1A3126	MT4111	Metal Forming & Press Tools Lab	20	44	2
15VV1A3126	MT4112	Electro Metallurgy and Corrosion Lab	21	34	2
15VV1A3127	MT4101	Metal Forming & Press Tools	14	26	3
15VV1A3127	MT4102	Electro Mettallurgy & Corrosion	17	38	3
15VV1A3127	MT4103	Computer Applications in Metallurgy & Mater	18	42	3
15VV1A3127	MT4104	Powder Metallurgy	21	26	3
15VV1A3127	MT4105	Non - Conventional Sources of Energy	19	38	3
15VV1A3127	MT4110	Fracture Mechanics	15	40	3
15VV1A3127	MT4111	Metal Forming & Press Tools Lab	15	33	2
15VV1A3127	MT4112	Electro Metallurgy and Corrosion Lab	18	22	2
15VV1A3128	MT4101	Metal Forming & Press Tools	21	35	3
15VV1A3128	MT4102	Electro Mettallurgy & Corrosion	19	34	3
15VV1A3128	MT4103	Computer Applications in Metallurgy & Mater	25	53	3
15VV1A3128	MT4104	Powder Metallurgy	22	42	3
15VV1A3128	MT4105	Non - Conventional Sources of Energy	20	42	3
15VV1A3128	MT4110	Fracture Mechanics	24	34	3
15VV1A3128	MT4111	Metal Forming & Press Tools Lab	17	37	2
15VV1A3128	MT4112	Electro Metallurgy and Corrosion Lab	19	31	2
15VV1A3129	MT4101	Metal Forming & Press Tools	20	31	3
15VV1A3129	MT4102	Electro Mettallurgy & Corrosion	18	40	3
15VV1A3129	MT4103	Computer Applications in Metallurgy & Mater	24	41	3
15VV1A3129	MT4104	Powder Metallurgy	20	39	3
15VV1A3129	MT4105	Non - Conventional Sources of Energy	21	56	3
15VV1A3129	MT4110	Fracture Mechanics	23	50	3
15VV1A3129	MT4111	Metal Forming & Press Tools Lab	19	36	2
15VV1A3129	MT4112	Electro Metallurgy and Corrosion Lab	21	32	2
15VV1A3130	MT4101	Metal Forming & Press Tools	26	49	3
15VV1A3130	MT4102	Electro Mettallurgy & Corrosion	19	48	3
15VV1A3130	MT4103	Computer Applications in Metallurgy & Mater	21	54	3
15VV1A3130	MT4104	Powder Metallurgy	22	54	3
15VV1A3130	MT4105	Non - Conventional Sources of Energy	20	58	3
15VV1A3130	MT4110	Fracture Mechanics	21	50	3
15VV1A3130	MT4111	Metal Forming & Press Tools Lab	20	43	2
15VV1A3130	MT4112	Electro Metallurgy and Corrosion Lab	21	36	2
15VV5A0561	RT41051	Cryptography and Network Security	10	24	0
16VV5A0131	RT41011	Environmental Engineering - II	28	63	3
16VV5A0131	RT41012	Prestressed Concrete	28	54	3
16VV5A0131	RT41013	Construction Technology and Management	27	58	3
16VV5A0131	RT41014	Water Resource Engineering - II	28	70	3
16VV5A0131	RT41015	Remote Sensing and GIS Applications	27	59	3
16VV5A0131	RT41016	Ground Improvement Techiniques	28	61	3
16VV5A0131	RT4101L	Environmental Engineering Lab	24	46	2
16VV5A0131	RT4101M	GIS & CAD Lab	23	46	2
16VV5A0133	RT41011	Environmental Engineering - II	23	55	3
16VV5A0133	RT41012	Prestressed Concrete	21	35	3
16VV5A0133	RT41013	Construction Technology and Management	21	38	3
16VV5A0133	RT41014	Water Resource Engineering - II	21	48	3
16VV5A0133	RT41015	Remote Sensing and GIS Applications	24	24	3
16VV5A0133	RT41016	Ground Improvement Techiniques	26	41	3

Htno	Subcode	Subname	Internal	External	Credits
16VV5A0133	RT4101L	Environmental Engineering Lab	20	37	2
16VV5A0133	RT4101M	GIS & CAD Lab	20	42	2
16VV5A0261	RT41021	Renewable Energy Sources and Systems	19	34	3
16VV5A0261	RT41022	HVAC & DC Transmission	21	33	3
16VV5A0261	RT41023	Power System Operation & Control	19	30	3
16VV5A0261	RT41025	Instrumentation	16	27	3
16VV5A0261	RT41029	Electrical Distribution Systems	20	41	3
16VV5A0261	RT4102L	Microprocessors & Microcontrollers Lab	19	39	2
16VV5A0261	RT4102M	Electrical Simulation Lab	22	27	2
16VV5A0261	RT4102N	Power Systems Lab	20	23	2
16VV5A0262	RT41021	Renewable Energy Sources and Systems	27	44	3
16VV5A0262	RT41022	HVAC & DC Transmission	27	48	3
16VV5A0262	RT41023	Power System Operation & Control	26	37	3
16VV5A0262	RT41025	Instrumentation	23	57	3
16VV5A0262	RT41029	Electrical Distribution Systems	27	49	3
16VV5A0262	RT4102L	Microprocessors & Microcontrollers Lab	24	46	2
16VV5A0262	RT4102M	Electrical Simulation Lab	23	45	2
16VV5A0262	RT4102N	Power Systems Lab	23	43	2
16VV5A0263	RT41021	Renewable Energy Sources and Systems	27	40	3
16VV5A0263	RT41022	HVAC & DC Transmission	25	39	3
16VV5A0263	RT41023	Power System Operation & Control	25	30	3
16VV5A0263	RT41025	Instrumentation	19	30	3
16VV5A0263	RT41029	Electrical Distribution Systems	25	52	3
16VV5A0263	RT4102L	Microprocessors & Microcontrollers Lab	23	45	2
16VV5A0263	RT4102M	Electrical Simulation Lab	23	48	2
16VV5A0263	RT4102N	Power Systems Lab	23	42	2
16VV5A0264	RT41021	Renewable Energy Sources and Systems	29	36	3
16VV5A0264	RT41022	HVAC & DC Transmission	27	46	3
16VV5A0264	RT41023	Power System Operation & Control	26	27	3
16VV5A0264	RT41025	Instrumentation	20	44	3
16VV5A0264	RT41029	Electrical Distribution Systems	23	44	3
16VV5A0264	RT4102L	Microprocessors & Microcontrollers Lab	23	46	2
16VV5A0264	RT4102M	Electrical Simulation Lab	25	49	2
16VV5A0264	RT4102N	Power Systems Lab	22	38	2
16VV5A0265	RT41021	Renewable Energy Sources and Systems	19	45	3
16VV5A0265	RT41022	HVAC & DC Transmission	23	42	3
16VV5A0265	RT41023	Power System Operation & Control	19	36	3
16VV5A0265	RT41025	Instrumentation	14	26	3
16VV5A0265	RT41029	Electrical Distribution Systems	17	24	3
16VV5A0265	RT4102L	Microprocessors & Microcontrollers Lab	18	43	2
16VV5A0265	RT4102M	Electrical Simulation Lab	18	35	2
16VV5A0265	RT4102N	Power Systems Lab	21	33	2
16VV5A0266	RT41021	Renewable Energy Sources and Systems	28	36	3
16VV5A0266	RT41022	HVAC & DC Transmission	25	42	3
16VV5A0266	RT41023	Power System Operation & Control	28	52	3
16VV5A0266	RT41025	Instrumentation	25	46	3
16VV5A0266	RT41029	Electrical Distribution Systems	26	54	3
16VV5A0266	RT4102L	Microprocessors & Microcontrollers Lab	25	47	2
16VV5A0266	RT4102M	Electrical Simulation Lab	24	49	2
16VV5A0266	RT4102N	Power Systems Lab	23	43	2

Htno	Subcode	Subname	Internal	External	Credits
16VV5A0361	RT41031	Automobile Engineering	28	45	3
16VV5A0361	RT41032	CAD/CAM	29	58	3
16VV5A0361	RT41033	Finite Element Methods	27	46	3
16VV5A0361	RT41034	Unconventional Machining Processes	25	48	3
16VV5A0361	RT41035	Micro Electro Mechanical Systems	27	49	3
16VV5A0361	RT41039	Automation in Manufacturing	27	51	3
16VV5A0361	RT4103L	Simulation Lab	24	49	2
16VV5A0361	RT4103M	Design/Fabrication Project	49	0	1
16VV5A0362	RT41031	Automobile Engineering	24	44	3
16VV5A0362	RT41032	CAD/CAM	30	44	3
16VV5A0362	RT41033	Finite Element Methods	23	36	3
16VV5A0362	RT41034	Unconventional Machining Processes	24	47	3
16VV5A0362	RT41035	Micro Electro Mechanical Systems	27	41	3
16VV5A0362	RT41039	Automation in Manufacturing	26	50	3
16VV5A0362	RT4103L	Simulation Lab	23	48	2
16VV5A0362	RT4103M	Design/Fabrication Project	48	0	1
16VV5A0363	RT41031	Automobile Engineering	26	53	3
16VV5A0363	RT41032	CAD/CAM	26	46	3
16VV5A0363	RT41033	Finite Element Methods	22	28	3
16VV5A0363	RT41034	Unconventional Machining Processes	23	46	3
16VV5A0363	RT41035	Micro Electro Mechanical Systems	26	50	3
16VV5A0363	RT41039	Automation in Manufacturing	26	41	3
16VV5A0363	RT4103L	Simulation Lab	23	49	2
16VV5A0363	RT4103M	Design/Fabrication Project	49	0	1
16VV5A0364	RT41031	Automobile Engineering	25	55	3
16VV5A0364	RT41032	CAD/CAM	27	48	3
16VV5A0364	RT41033	Finite Element Methods	22	39	3
16VV5A0364	RT41034	Unconventional Machining Processes	25	52	3
16VV5A0364	RT41035	Micro Electro Mechanical Systems	26	47	3
16VV5A0364	RT41039	Automation in Manufacturing	24	44	3
16VV5A0364	RT4103L	Simulation Lab	24	49	2
16VV5A0364	RT4103M	Design/Fabrication Project	48	0	1
16VV5A0365	RT41031	Automobile Engineering	24	48	3
16VV5A0365	RT41032	CAD/CAM	27	49	3
16VV5A0365	RT41033	Finite Element Methods	23	32	3
16VV5A0365	RT41034	Unconventional Machining Processes	23	50	3
16VV5A0365	RT41035	Micro Electro Mechanical Systems	26	51	3
16VV5A0365	RT41039	Automation in Manufacturing	25	41	3
16VV5A0365	RT4103L	Simulation Lab	23	48	2
16VV5A0365	RT4103M	Design/Fabrication Project	46	0	1
16VV5A0366	RT41031	Automobile Engineering	28	50	3
16VV5A0366	RT41032	CAD/CAM	29	53	3
16VV5A0366	RT41033	Finite Element Methods	22	37	3
16VV5A0366	RT41034	Unconventional Machining Processes	27	51	3
16VV5A0366	RT41035	Micro Electro Mechanical Systems	27	53	3
16VV5A0366	RT41039	Automation in Manufacturing	27	50	3
16VV5A0366	RT4103L	Simulation Lab	24	49	2
16VV5A0366	RT4103M	Design/Fabrication Project	49	0	1
16VV5A0461	RT41041	VLSI Design	27	45	3
16VV5A0461	RT41042	Computer Networks	24	40	3

Htno	Subcode	Subname	Internal	External	Credits
16VV5A0461	RT41043	Digital Image Processing	19	45	3
16VV5A0461	RT41044	Computer Architecture & Organization	25	33	3
16VV5A0461	RT41048	Radar Systems	19	48	3
16VV5A0461	RT4104A	Optical Communication	22	31	3
16VV5A0461	RT4104L	VLSI Design Lab	25	48	2
16VV5A0461	RT4104M	Microwave Engineering Lab	24	48	2
16VV5A0462	RT41041	VLSI Design	23	29	3
16VV5A0462	RT41042	Computer Networks	23	28	3
16VV5A0462	RT41043	Digital Image Processing	15	30	3
16VV5A0462	RT41044	Computer Architecture & Organization	19	26	3
16VV5A0462	RT41048	Radar Systems	18	30	3
16VV5A0462	RT4104A	Optical Communication	22	28	3
16VV5A0462	RT4104L	VLSI Design Lab	24	46	2
16VV5A0462	RT4104M	Microwave Engineering Lab	24	46	2
16VV5A0463	RT41041	VLSI Design	26	38	3
16VV5A0463	RT41042	Computer Networks	18	40	3
16VV5A0463	RT41043	Digital Image Processing	20	24	3
16VV5A0463	RT41044	Computer Architecture & Organization	25	27	3
16VV5A0463	RT41048	Radar Systems	20	27	3
16VV5A0463	RT4104A	Optical Communication	24	30	3
16VV5A0463	RT4104L	VLSI Design Lab	23	46	2
16VV5A0463	RT4104M	Microwave Engineering Lab	24	46	2
16VV5A0464	RT41041	VLSI Design	28	40	3
16VV5A0464	RT41042	Computer Networks	26	48	3
16VV5A0464	RT41043	Digital Image Processing	23	42	3
16VV5A0464	RT41044	Computer Architecture & Organization	29	38	3
16VV5A0464	RT41048	Radar Systems	23	34	3
16VV5A0464	RT4104A	Optical Communication	29	34	3
16VV5A0464	RT4104L	VLSI Design Lab	24	45	2
16VV5A0464	RT4104M	Microwave Engineering Lab	23	46	2
16VV5A0465	RT41041	VLSI Design	27	54	3
16VV5A0465	RT41042	Computer Networks	25	50	3
16VV5A0465	RT41043	Digital Image Processing	23	42	3
16VV5A0465	RT41044	Computer Architecture & Organization	28	30	3
16VV5A0465	RT41048	Radar Systems	24	49	3
16VV5A0465	RT4104A	Optical Communication	26	41	3
16VV5A0465	RT4104L	VLSI Design Lab	24	44	2
16VV5A0465	RT4104M	Microwave Engineering Lab	24	46	2
16VV5A0466	RT41041	VLSI Design	25	24	3
16VV5A0466	RT41042	Computer Networks	23	42	3
16VV5A0466	RT41043	Digital Image Processing	14	27	3
16VV5A0466	RT41044	Computer Architecture & Organization	20	25	3
16VV5A0466	RT41048	Radar Systems	19	33	3
16VV5A0466	RT4104A	Optical Communication	27	30	3
16VV5A0466	RT4104L	VLSI Design Lab	22	44	2
16VV5A0466	RT4104M	Microwave Engineering Lab	22	42	2
16VV5A0561	RT41051	Cryptography and Network Security	19	48	3
16VV5A0561	RT41052	UML & Design Patterns	23	44	3
16VV5A0561	RT41053	Mobile Computing	22	24	3
16VV5A0561	RT41057	Artificial Intelligence	23	49	2

Htno	Subcode	Subname	Internal	External	Credits
16VV5A0561	RT4105B	Hadoop and Big Data	24	33	3
16VV5A0561	RT4105L	UML & Design Patterns Lab	21	45	2
16VV5A0561	RT4105M	Mobile Application Development Lab	23	45	2
16VV5A0561	RT4105N	Software Testing Lab	22	47	2
16VV5A0561	RT4105O	Hadoop & Big Data Lab	23	41	2
16VV5A0562	RT41051	Cryptography and Network Security	20	45	3
16VV5A0562	RT41052	UML & Design Patterns	19	35	3
16VV5A0562	RT41053	Mobile Computing	22	32	3
16VV5A0562	RT41057	Artificial Intelligence	26	35	2
16VV5A0562	RT4105B	Hadoop and Big Data	24	33	3
16VV5A0562	RT4105L	UML & Design Patterns Lab	21	48	2
16VV5A0562	RT4105M	Mobile Application Development Lab	21	45	2
16VV5A0562	RT4105N	Software Testing Lab	23	45	2
16VV5A0562	RT4105O	Hadoop & Big Data Lab	23	44	2
16VV5A0563	RT41051	Cryptography and Network Security	12	31	3
16VV5A0563	RT41052	UML & Design Patterns	21	35	3
16VV5A0563	RT41053	Mobile Computing	21	41	3
16VV5A0563	RT41057	Artificial Intelligence	26	43	2
16VV5A0563	RT4105B	Hadoop and Big Data	27	41	3
16VV5A0563	RT4105L	UML & Design Patterns Lab	21	48	2
16VV5A0563	RT4105M	Mobile Application Development Lab	24	46	2
16VV5A0563	RT4105N	Software Testing Lab	22	44	2
16VV5A0563	RT4105O	Hadoop & Big Data Lab	23	40	2
16VV5A0564	RT41051	Cryptography and Network Security	14	47	3
16VV5A0564	RT41052	UML & Design Patterns	22	48	3
16VV5A0564	RT41053	Mobile Computing	19	46	3
16VV5A0564	RT41057	Artificial Intelligence	27	50	2
16VV5A0564	RT4105B	Hadoop and Big Data	27	26	3
16VV5A0564	RT4105L	UML & Design Patterns Lab	21	47	2
16VV5A0564	RT4105M	Mobile Application Development Lab	21	44	2
16VV5A0564	RT4105N	Software Testing Lab	23	45	2
16VV5A0564	RT4105O	Hadoop & Big Data Lab	23	36	2
16VV5A0565	RT41051	Cryptography and Network Security	23	36	3
16VV5A0565	RT41052	UML & Design Patterns	29	31	3
16VV5A0565	RT41053	Mobile Computing	26	35	3
16VV5A0565	RT41057	Artificial Intelligence	28	34	2
16VV5A0565	RT4105B	Hadoop and Big Data	25	35	3
16VV5A0565	RT4105L	UML & Design Patterns Lab	23	48	2
16VV5A0565	RT4105M	Mobile Application Development Lab	25	47	2
16VV5A0565	RT4105N	Software Testing Lab	22	49	2
16VV5A0565	RT4105O	Hadoop & Big Data Lab	22	46	2
16VV5A0566	RT41051	Cryptography and Network Security	17	56	3
16VV5A0566	RT41052	UML & Design Patterns	25	45	3
16VV5A0566	RT41053	Mobile Computing	23	43	3
16VV5A0566	RT41057	Artificial Intelligence	28	39	2
16VV5A0566	RT4105B	Hadoop and Big Data	25	44	3
16VV5A0566	RT4105L	UML & Design Patterns Lab	25	48	2
16VV5A0566	RT4105M	Mobile Application Development Lab	22	46	2
16VV5A0566	RT4105N	Software Testing Lab	24	49	2
16VV5A0566	RT4105O	Hadoop & Big Data Lab	24	46	2

Htno	Subcode	Subname	Internal	External	Credits
16VV5A1261	RT41051	Cryptography and Network Security	25	32	3
16VV5A1261	RT41052	UML & Design Patterns	25	46	3
16VV5A1261	RT41053	Mobile Computing	26	46	3
16VV5A1261	RT41056	Information Retrieval Systems	22	45	3
16VV5A1261	RT4105B	Hadoop and Big Data	24	40	3
16VV5A1261	RT4112L	UML & Design Patterns Lab	23	47	2
16VV5A1261	RT4112M	Mobile Application Development Lab	22	45	2
16VV5A1261	RT4112N	Software Engineering Lab	22	45	2
16VV5A1261	RT4112O	Hadoop & Big Data Lab	23	40	2
16VV5A1262	RT41051	Cryptography and Network Security	24	35	3
16VV5A1262	RT41052	UML & Design Patterns	25	33	3
16VV5A1262	RT41053	Mobile Computing	22	46	3
16VV5A1262	RT41056	Information Retrieval Systems	21	37	3
16VV5A1262	RT4105B	Hadoop and Big Data	27	42	3
16VV5A1262	RT4112L	UML & Design Patterns Lab	22	46	2
16VV5A1262	RT4112M	Mobile Application Development Lab	22	45	2
16VV5A1262	RT4112N	Software Engineering Lab	24	48	2
16VV5A1262	RT4112O	Hadoop & Big Data Lab	22	39	2
16VV5A1263	RT41051	Cryptography and Network Security	28	47	3
16VV5A1263	RT41052	UML & Design Patterns	28	44	3
16VV5A1263	RT41053	Mobile Computing	25	60	3
16VV5A1263	RT41056	Information Retrieval Systems	24	52	3
16VV5A1263	RT4105B	Hadoop and Big Data	27	49	3
16VV5A1263	RT4112L	UML & Design Patterns Lab	23	49	2
16VV5A1263	RT4112M	Mobile Application Development Lab	22	47	2
16VV5A1263	RT4112N	Software Engineering Lab	23	49	2
16VV5A1263	RT4112O	Hadoop & Big Data Lab	23	47	2
16VV5A1264	RT41051	Cryptography and Network Security	16	31	3
16VV5A1264	RT41052	UML & Design Patterns	26	31	3
16VV5A1264	RT41053	Mobile Computing	20	36	3
16VV5A1264	RT41056	Information Retrieval Systems	17	28	3
16VV5A1264	RT4105B	Hadoop and Big Data	25	26	3
16VV5A1264	RT4112L	UML & Design Patterns Lab	23	44	2
16VV5A1264	RT4112M	Mobile Application Development Lab	21	45	2
16VV5A1264	RT4112N	Software Engineering Lab	19	39	2
16VV5A1264	RT4112O	Hadoop & Big Data Lab	23	35	2
16VV5A1265	RT41051	Cryptography and Network Security	20	38	3
16VV5A1265	RT41052	UML & Design Patterns	26	36	3
16VV5A1265	RT41053	Mobile Computing	24	50	3
16VV5A1265	RT41056	Information Retrieval Systems	22	42	3
16VV5A1265	RT4105B	Hadoop and Big Data	25	36	3
16VV5A1265	RT4112L	UML & Design Patterns Lab	22	45	2
16VV5A1265	RT4112M	Mobile Application Development Lab	23	47	2
16VV5A1265	RT4112N	Software Engineering Lab	23	46	2
16VV5A1265	RT4112O	Hadoop & Big Data Lab	23	43	2
16VV5A1266	RT41051	Cryptography and Network Security	26	52	3
16VV5A1266	RT41052	UML & Design Patterns	26	44	3
16VV5A1266	RT41053	Mobile Computing	26	56	3
16VV5A1266	RT41056	Information Retrieval Systems	22	47	3
16VV5A1266	RT4105B	Hadoop and Big Data	25	52	3

Htno	Subcode	Subname	Internal	External	Credits
16VV5A1266	RT4112L	UML & Design Patterns Lab	23	48	2
16VV5A1266	RT4112M	Mobile Application Development Lab	24	46	2
16VV5A1266	RT4112N	Software Engineering Lab	23	45	2
16VV5A1266	RT4112O	Hadoop & Big Data Lab	23	40	2
16VV5A3131	MT4101	Metal Forming & Press Tools	23	54	3
16VV5A3131	MT4102	Electro Mettallurgy & Corrosion	24	42	3
16VV5A3131	MT4103	Computer Applications in Metallurgy & Mater	24	48	3
16VV5A3131	MT4104	Powder Metallurgy	25	46	3
16VV5A3131	MT4105	Non - Conventional Sources of Energy	23	55	3
16VV5A3131	MT4110	Fracture Mechanics	25	50	3
16VV5A3131	MT4111	Metal Forming & Press Tools Lab	21	40	2
16VV5A3131	MT4112	Electro Metallurgy and Corrosion Lab	22	34	2
16VV5A3132	MT4101	Metal Forming & Press Tools	24	42	3
16VV5A3132	MT4102	Electro Metallurgy & Corrosion	23	50	3
16VV5A3132	MT4103	Computer Applications in Metallurgy & Mater	26	45	3
16VV5A3132	MT4104	Powder Metallurgy	29	55	3
16VV5A3132	MT4105	Non - Conventional Sources of Energy	21	64	3
16VV5A3132	MT4110	Fracture Mechanics	25	50	3
16VV5A3132	MT4111	Metal Forming & Press Tools Lab	21	40	2
16VV5A3132	MT4112	Electro Metallurgy and Corrosion Lab	23	39	2
16VV5A3133	MT4101	Metal Forming & Press Tools	23	59	3
16VV5A3133	MT4102	Electro Mettallurgy & Corrosion	24	46	3
16VV5A3133	MT4103	Computer Applications in Metallurgy & Mater	24	46	3
16VV5A3133	MT4104	Powder Metallurgy	27	49	3
16VV5A3133	MT4105	Non - Conventional Sources of Energy	23	55	3
16VV5A3133	MT4110	Fracture Mechanics	26	46	3
16VV5A3133	MT4111	Metal Forming & Press Tools Lab	20	46	2
16VV5A3133	MT4112	Electro Metallurgy and Corrosion Lab	20	37	2

** Note:**

* -1 in the filed of externals indicates student absent for the respective subject.

* -2 in the filed of externals indicates student Withheld for the respective subject.

* -3 in the filed of externals indicates student Malpractice for the respective subject.

Date:01-02-2019   Controller of Examinations