



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Results for IV B.Tech I Semester Regular/Supplementary Examinations Nov-2017

College: JNTU KAKINADA UNIVERSITY COLLEGE OF ENGINEERING, VIZIANAGARAM:VV

Htno	Subcode	Subname	Internal	External	Credits
13VV1A0127	RT41011	Environmental Engineering - II	25	54	3
13VV1A0127	RT41012	Prestressed Concrete	20	66	3
13VV1A0127	RT41013	Construction Technology and Management	24	51	3
13VV1A0127	RT41014	Water Resource Engineering - II	23	50	3
13VV1A0127	RT41015	Remote Sensing and GIS Applications	28	65	3
13VV1A0127	RT41016	Ground Improvement Techniques	22	49	3
13VV1A0127	RT4101L	Environmental Engineering Lab	24	46	2
13VV1A0127	RT4101M	GIS & CAD Lab	24	49	2
13VV1A0242	RT41023	Power System Operation & Control	19	12	0
13VV1A0256	RT41023	Power System Operation & Control	6	13	0
13VV1A0314	RT41031	Automobile Engineering	18	35	3
13VV1A0314	RT41032	CAD/CAM	22	44	3
13VV1A0314	RT41033	Finite Element Methods	19	24	3
13VV1A0314	RT41034	Unconventional Machining Processes	22	39	3
13VV1A0314	RT41035	Micro Electro Mechanical Systems	23	45	3
13VV1A0314	RT41039	Automation in Manufacturing	15	43	3
13VV1A0314	RT4103L	Simulation Lab	20	43	2
13VV1A0333	RT41031	Automobile Engineering	21	39	3
13VV1A0333	RT41032	CAD/CAM	23	45	3
13VV1A0333	RT41033	Finite Element Methods	23	49	3
13VV1A0333	RT41034	Unconventional Machining Processes	22	48	3
13VV1A0333	RT41035	Micro Electro Mechanical Systems	27	49	3
13VV1A0333	RT41039	Automation in Manufacturing	18	47	3
13VV1A0333	RT4103L	Simulation Lab	23	49	2
13VV1A0340	RT41031	Automobile Engineering	18	38	3
13VV1A0340	RT41032	CAD/CAM	16	44	3
13VV1A0340	RT41033	Finite Element Methods	21	33	3
13VV1A0340	RT41034	Unconventional Machining Processes	23	37	3
13VV1A0340	RT41035	Micro Electro Mechanical Systems	21	47	3
13VV1A0340	RT41039	Automation in Manufacturing	23	38	3
13VV1A0340	RT4103L	Simulation Lab	20	44	2
13VV1A1257	RT4105B	Hadoop and Big Data	23	-1	0
14VV1A0101	RT41011	Environmental Engineering - II	27	49	3
14VV1A0101	RT41012	Prestressed Concrete	24	36	3
14VV1A0101	RT41013	Construction Technology and Management	23	43	3
14VV1A0101	RT41014	Water Resource Engineering - II	18	39	3
14VV1A0101	RT41015	Remote Sensing and GIS Applications	26	42	3
14VV1A0101	RT41016	Ground Improvement Techniques	26	32	3
14VV1A0101	RT4101L	Environmental Engineering Lab	23	47	2
14VV1A0101	RT4101M	GIS & CAD Lab	22	47	2
14VV1A0102	RT41011	Environmental Engineering - II	23	31	3
14VV1A0102	RT41012	Prestressed Concrete	23	70	3
14VV1A0102	RT41013	Construction Technology and Management	28	51	3
14VV1A0102	RT41014	Water Resource Engineering - II	23	41	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0102	RT41015	Remote Sensing and GIS Applications	30	64	3
14VV1A0102	RT41016	Ground Improvement Techniques	20	57	3
14VV1A0102	RT4101L	Environmental Engineering Lab	24	47	2
14VV1A0102	RT4101M	GIS & CAD Lab	24	49	2
14VV1A0103	RT41011	Environmental Engineering - II	27	24	3
14VV1A0103	RT41012	Prestressed Concrete	22	46	3
14VV1A0103	RT41013	Construction Technology and Management	26	41	3
14VV1A0103	RT41014	Water Resource Engineering - II	24	45	3
14VV1A0103	RT41015	Remote Sensing and GIS Applications	28	57	3
14VV1A0103	RT41016	Ground Improvement Techniques	23	50	3
14VV1A0103	RT4101L	Environmental Engineering Lab	24	46	2
14VV1A0103	RT4101M	GIS & CAD Lab	22	44	2
14VV1A0104	RT41011	Environmental Engineering - II	27	59	3
14VV1A0104	RT41012	Prestressed Concrete	27	56	3
14VV1A0104	RT41013	Construction Technology and Management	30	48	3
14VV1A0104	RT41014	Water Resource Engineering - II	27	50	3
14VV1A0104	RT41015	Remote Sensing and GIS Applications	29	66	3
14VV1A0104	RT41016	Ground Improvement Techniques	26	60	3
14VV1A0104	RT4101L	Environmental Engineering Lab	24	49	2
14VV1A0104	RT4101M	GIS & CAD Lab	23	47	2
14VV1A0105	RT41011	Environmental Engineering - II	24	50	3
14VV1A0105	RT41012	Prestressed Concrete	26	48	3
14VV1A0105	RT41013	Construction Technology and Management	25	46	3
14VV1A0105	RT41014	Water Resource Engineering - II	22	42	3
14VV1A0105	RT41015	Remote Sensing and GIS Applications	29	62	3
14VV1A0105	RT41016	Ground Improvement Techniques	25	47	3
14VV1A0105	RT4101L	Environmental Engineering Lab	24	46	2
14VV1A0105	RT4101M	GIS & CAD Lab	22	46	2
14VV1A0106	RT41011	Environmental Engineering - II	27	57	3
14VV1A0106	RT41012	Prestressed Concrete	25	56	3
14VV1A0106	RT41013	Construction Technology and Management	24	47	3
14VV1A0106	RT41014	Water Resource Engineering - II	24	52	3
14VV1A0106	RT41015	Remote Sensing and GIS Applications	29	59	3
14VV1A0106	RT41016	Ground Improvement Techniques	24	64	3
14VV1A0106	RT4101L	Environmental Engineering Lab	24	45	2
14VV1A0106	RT4101M	GIS & CAD Lab	22	47	2
14VV1A0107	RT41011	Environmental Engineering - II	25	48	3
14VV1A0107	RT41012	Prestressed Concrete	22	60	3
14VV1A0107	RT41013	Construction Technology and Management	25	46	3
14VV1A0107	RT41014	Water Resource Engineering - II	20	48	3
14VV1A0107	RT41015	Remote Sensing and GIS Applications	24	52	3
14VV1A0107	RT41016	Ground Improvement Techniques	26	47	3
14VV1A0107	RT4101L	Environmental Engineering Lab	22	45	2
14VV1A0107	RT4101M	GIS & CAD Lab	22	46	2
14VV1A0108	RT41011	Environmental Engineering - II	29	53	3
14VV1A0108	RT41012	Prestressed Concrete	22	54	3
14VV1A0108	RT41013	Construction Technology and Management	25	43	3
14VV1A0108	RT41014	Water Resource Engineering - II	25	46	3
14VV1A0108	RT41015	Remote Sensing and GIS Applications	28	50	3
14VV1A0108	RT41016	Ground Improvement Techniques	25	49	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0108	RT4101L	Environmental Engineering Lab	23	46	2
14VV1A0108	RT4101M	GIS & CAD Lab	24	48	2
14VV1A0110	RT41011	Environmental Engineering - II	25	54	3
14VV1A0110	RT41012	Prestressed Concrete	24	42	3
14VV1A0110	RT41013	Construction Technology and Management	27	44	3
14VV1A0110	RT41014	Water Resource Engineering - II	23	52	3
14VV1A0110	RT41015	Remote Sensing and GIS Applications	29	64	3
14VV1A0110	RT41016	Ground Improvement Techniques	26	38	3
14VV1A0110	RT4101L	Environmental Engineering Lab	24	48	2
14VV1A0110	RT4101M	GIS & CAD Lab	22	46	2
14VV1A0111	RT41011	Environmental Engineering - II	24	43	3
14VV1A0111	RT41012	Prestressed Concrete	21	40	3
14VV1A0111	RT41013	Construction Technology and Management	23	33	3
14VV1A0111	RT41014	Water Resource Engineering - II	20	40	3
14VV1A0111	RT41015	Remote Sensing and GIS Applications	27	52	3
14VV1A0111	RT41016	Ground Improvement Techniques	25	31	3
14VV1A0111	RT4101L	Environmental Engineering Lab	22	43	2
14VV1A0111	RT4101M	GIS & CAD Lab	22	46	2
14VV1A0112	RT41011	Environmental Engineering - II	21	34	3
14VV1A0112	RT41012	Prestressed Concrete	21	42	3
14VV1A0112	RT41013	Construction Technology and Management	23	49	3
14VV1A0112	RT41014	Water Resource Engineering - II	19	53	3
14VV1A0112	RT41015	Remote Sensing and GIS Applications	30	52	3
14VV1A0112	RT41016	Ground Improvement Techniques	23	35	3
14VV1A0112	RT4101L	Environmental Engineering Lab	22	46	2
14VV1A0112	RT4101M	GIS & CAD Lab	21	46	2
14VV1A0113	RT41011	Environmental Engineering - II	23	32	3
14VV1A0113	RT41012	Prestressed Concrete	24	52	3
14VV1A0113	RT41013	Construction Technology and Management	25	39	3
14VV1A0113	RT41014	Water Resource Engineering - II	24	39	3
14VV1A0113	RT41015	Remote Sensing and GIS Applications	28	47	3
14VV1A0113	RT41016	Ground Improvement Techniques	26	45	3
14VV1A0113	RT4101L	Environmental Engineering Lab	23	47	2
14VV1A0113	RT4101M	GIS & CAD Lab	24	48	2
14VV1A0114	RT41011	Environmental Engineering - II	23	26	3
14VV1A0114	RT41012	Prestressed Concrete	23	24	3
14VV1A0114	RT41013	Construction Technology and Management	20	45	3
14VV1A0114	RT41014	Water Resource Engineering - II	19	42	3
14VV1A0114	RT41015	Remote Sensing and GIS Applications	29	36	3
14VV1A0114	RT41016	Ground Improvement Techniques	24	29	3
14VV1A0114	RT4101L	Environmental Engineering Lab	22	44	2
14VV1A0114	RT4101M	GIS & CAD Lab	21	45	2
14VV1A0115	RT41011	Environmental Engineering - II	25	51	3
14VV1A0115	RT41012	Prestressed Concrete	25	62	3
14VV1A0115	RT41013	Construction Technology and Management	27	40	3
14VV1A0115	RT41014	Water Resource Engineering - II	27	46	3
14VV1A0115	RT41015	Remote Sensing and GIS Applications	27	51	3
14VV1A0115	RT41016	Ground Improvement Techniques	27	51	3
14VV1A0115	RT4101L	Environmental Engineering Lab	23	48	2
14VV1A0115	RT4101M	GIS & CAD Lab	23	49	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0116	RT41011	Environmental Engineering - II	25	10	0
14VV1A0116	RT41012	Prestressed Concrete	21	41	3
14VV1A0116	RT41013	Construction Technology and Management	21	43	3
14VV1A0116	RT41014	Water Resource Engineering - II	20	44	3
14VV1A0116	RT41015	Remote Sensing and GIS Applications	26	45	3
14VV1A0116	RT41016	Ground Improvement Techniques	25	27	3
14VV1A0116	RT4101L	Environmental Engineering Lab	21	43	2
14VV1A0116	RT4101M	GIS & CAD Lab	22	46	2
14VV1A0117	RT41011	Environmental Engineering - II	27	68	3
14VV1A0117	RT41012	Prestressed Concrete	26	62	3
14VV1A0117	RT41013	Construction Technology and Management	28	52	3
14VV1A0117	RT41014	Water Resource Engineering - II	27	53	3
14VV1A0117	RT41015	Remote Sensing and GIS Applications	28	62	3
14VV1A0117	RT41016	Ground Improvement Techniques	26	62	3
14VV1A0117	RT4101L	Environmental Engineering Lab	25	49	2
14VV1A0117	RT4101M	GIS & CAD Lab	24	50	2
14VV1A0118	RT41011	Environmental Engineering - II	27	59	3
14VV1A0118	RT41012	Prestressed Concrete	22	51	3
14VV1A0118	RT41013	Construction Technology and Management	26	39	3
14VV1A0118	RT41014	Water Resource Engineering - II	21	48	3
14VV1A0118	RT41015	Remote Sensing and GIS Applications	26	50	3
14VV1A0118	RT41016	Ground Improvement Techniques	23	52	3
14VV1A0118	RT4101L	Environmental Engineering Lab	22	46	2
14VV1A0118	RT4101M	GIS & CAD Lab	23	49	2
14VV1A0119	RT41011	Environmental Engineering - II	24	26	3
14VV1A0119	RT41012	Prestressed Concrete	21	27	3
14VV1A0119	RT41013	Construction Technology and Management	25	44	3
14VV1A0119	RT41014	Water Resource Engineering - II	21	42	3
14VV1A0119	RT41015	Remote Sensing and GIS Applications	25	49	3
14VV1A0119	RT41016	Ground Improvement Techniques	24	38	3
14VV1A0119	RT4101L	Environmental Engineering Lab	22	44	2
14VV1A0119	RT4101M	GIS & CAD Lab	22	48	2
14VV1A0120	RT41011	Environmental Engineering - II	26	69	3
14VV1A0120	RT41012	Prestressed Concrete	26	68	3
14VV1A0120	RT41013	Construction Technology and Management	28	48	3
14VV1A0120	RT41014	Water Resource Engineering - II	24	51	3
14VV1A0120	RT41015	Remote Sensing and GIS Applications	29	61	3
14VV1A0120	RT41016	Ground Improvement Techniques	27	64	3
14VV1A0120	RT4101L	Environmental Engineering Lab	24	47	2
14VV1A0120	RT4101M	GIS & CAD Lab	24	50	2
14VV1A0121	RT41011	Environmental Engineering - II	27	66	3
14VV1A0121	RT41012	Prestressed Concrete	26	64	3
14VV1A0121	RT41013	Construction Technology and Management	26	44	3
14VV1A0121	RT41014	Water Resource Engineering - II	26	47	3
14VV1A0121	RT41015	Remote Sensing and GIS Applications	28	56	3
14VV1A0121	RT41016	Ground Improvement Techniques	27	45	3
14VV1A0121	RT4101L	Environmental Engineering Lab	22	45	2
14VV1A0121	RT4101M	GIS & CAD Lab	24	46	2
14VV1A0122	RT41011	Environmental Engineering - II	26	70	3
14VV1A0122	RT41012	Prestressed Concrete	26	66	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0122	RT41013	Construction Technology and Management	29	49	3
14VV1A0122	RT41014	Water Resource Engineering - II	26	54	3
14VV1A0122	RT41015	Remote Sensing and GIS Applications	28	64	3
14VV1A0122	RT41016	Ground Improvement Techniques	23	61	3
14VV1A0122	RT4101L	Environmental Engineering Lab	24	47	2
14VV1A0122	RT4101M	GIS & CAD Lab	24	50	2
14VV1A0123	RT41011	Environmental Engineering - II	24	61	3
14VV1A0123	RT41012	Prestressed Concrete	23	52	3
14VV1A0123	RT41013	Construction Technology and Management	26	44	3
14VV1A0123	RT41014	Water Resource Engineering - II	22	49	3
14VV1A0123	RT41015	Remote Sensing and GIS Applications	29	57	3
14VV1A0123	RT41016	Ground Improvement Techniques	26	45	3
14VV1A0123	RT4101L	Environmental Engineering Lab	22	47	2
14VV1A0123	RT4101M	GIS & CAD Lab	24	47	2
14VV1A0124	RT41011	Environmental Engineering - II	27	55	3
14VV1A0124	RT41012	Prestressed Concrete	25	32	3
14VV1A0124	RT41013	Construction Technology and Management	27	45	3
14VV1A0124	RT41014	Water Resource Engineering - II	23	55	3
14VV1A0124	RT41015	Remote Sensing and GIS Applications	26	61	3
14VV1A0124	RT41016	Ground Improvement Techniques	26	49	3
14VV1A0124	RT4101L	Environmental Engineering Lab	23	46	2
14VV1A0124	RT4101M	GIS & CAD Lab	23	48	2
14VV1A0125	RT41011	Environmental Engineering - II	23	61	3
14VV1A0125	RT41012	Prestressed Concrete	24	56	3
14VV1A0125	RT41013	Construction Technology and Management	28	49	3
14VV1A0125	RT41014	Water Resource Engineering - II	25	39	3
14VV1A0125	RT41015	Remote Sensing and GIS Applications	27	51	3
14VV1A0125	RT41016	Ground Improvement Techniques	26	57	3
14VV1A0125	RT4101L	Environmental Engineering Lab	24	48	2
14VV1A0125	RT4101M	GIS & CAD Lab	23	50	2
14VV1A0126	RT41011	Environmental Engineering - II	26	69	3
14VV1A0126	RT41012	Prestressed Concrete	23	70	3
14VV1A0126	RT41013	Construction Technology and Management	28	51	3
14VV1A0126	RT41014	Water Resource Engineering - II	24	45	3
14VV1A0126	RT41015	Remote Sensing and GIS Applications	28	61	3
14VV1A0126	RT41016	Ground Improvement Techniques	26	42	3
14VV1A0126	RT4101L	Environmental Engineering Lab	24	48	2
14VV1A0126	RT4101M	GIS & CAD Lab	24	49	2
14VV1A0127	RT41011	Environmental Engineering - II	29	64	3
14VV1A0127	RT41012	Prestressed Concrete	27	62	3
14VV1A0127	RT41013	Construction Technology and Management	28	51	3
14VV1A0127	RT41014	Water Resource Engineering - II	24	57	3
14VV1A0127	RT41015	Remote Sensing and GIS Applications	30	45	3
14VV1A0127	RT41016	Ground Improvement Techniques	28	59	3
14VV1A0127	RT4101L	Environmental Engineering Lab	24	48	2
14VV1A0127	RT4101M	GIS & CAD Lab	23	47	2
14VV1A0128	RT41011	Environmental Engineering - II	28	54	3
14VV1A0128	RT41012	Prestressed Concrete	25	64	3
14VV1A0128	RT41013	Construction Technology and Management	28	47	3
14VV1A0128	RT41014	Water Resource Engineering - II	26	51	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0128	RT41015	Remote Sensing and GIS Applications	28	60	3
14VV1A0128	RT41016	Ground Improvement Techniques	26	57	3
14VV1A0128	RT4101L	Environmental Engineering Lab	23	48	2
14VV1A0128	RT4101M	GIS & CAD Lab	23	50	2
14VV1A0129	RT41011	Environmental Engineering - II	27	25	3
14VV1A0129	RT41012	Prestressed Concrete	23	24	3
14VV1A0129	RT41013	Construction Technology and Management	20	39	3
14VV1A0129	RT41014	Water Resource Engineering - II	22	38	3
14VV1A0129	RT41015	Remote Sensing and GIS Applications	29	47	3
14VV1A0129	RT41016	Ground Improvement Techniques	25	44	3
14VV1A0129	RT4101L	Environmental Engineering Lab	23	47	2
14VV1A0129	RT4101M	GIS & CAD Lab	24	47	2
14VV1A0130	RT41011	Environmental Engineering - II	26	48	3
14VV1A0130	RT41012	Prestressed Concrete	24	46	3
14VV1A0130	RT41013	Construction Technology and Management	21	42	3
14VV1A0130	RT41014	Water Resource Engineering - II	22	29	3
14VV1A0130	RT41015	Remote Sensing and GIS Applications	28	56	3
14VV1A0130	RT41016	Ground Improvement Techniques	24	42	3
14VV1A0130	RT4101L	Environmental Engineering Lab	21	42	2
14VV1A0130	RT4101M	GIS & CAD Lab	21	45	2
14VV1A0201	RT41021	Renewable Energy Sources and Systems	25	42	3
14VV1A0201	RT41022	HVAC & DC Transmission	25	51	3
14VV1A0201	RT41023	Power System Operation & Control	14	43	3
14VV1A0201	RT41025	Instrumentation	20	50	3
14VV1A0201	RT41029	Electrical Distribution Systems	22	50	3
14VV1A0201	RT4102L	Microprocessors & Microcontrollers Lab	20	45	2
14VV1A0201	RT4102M	Electrical Simulation Lab	21	40	2
14VV1A0201	RT4102N	Power Systems Lab	20	38	2
14VV1A0202	RT41021	Renewable Energy Sources and Systems	28	47	3
14VV1A0202	RT41022	HVAC & DC Transmission	25	56	3
14VV1A0202	RT41023	Power System Operation & Control	24	37	3
14VV1A0202	RT41025	Instrumentation	22	49	3
14VV1A0202	RT41029	Electrical Distribution Systems	24	48	3
14VV1A0202	RT4102L	Microprocessors & Microcontrollers Lab	23	44	2
14VV1A0202	RT4102M	Electrical Simulation Lab	22	41	2
14VV1A0202	RT4102N	Power Systems Lab	20	39	2
14VV1A0203	RT41021	Renewable Energy Sources and Systems	30	43	3
14VV1A0203	RT41022	HVAC & DC Transmission	25	52	3
14VV1A0203	RT41023	Power System Operation & Control	29	41	3
14VV1A0203	RT41025	Instrumentation	25	49	3
14VV1A0203	RT41029	Electrical Distribution Systems	23	43	3
14VV1A0203	RT4102L	Microprocessors & Microcontrollers Lab	23	46	2
14VV1A0203	RT4102M	Electrical Simulation Lab	24	45	2
14VV1A0203	RT4102N	Power Systems Lab	22	36	2
14VV1A0204	RT41021	Renewable Energy Sources and Systems	27	44	3
14VV1A0204	RT41022	HVAC & DC Transmission	25	42	3
14VV1A0204	RT41023	Power System Operation & Control	21	41	3
14VV1A0204	RT41025	Instrumentation	20	51	3
14VV1A0204	RT41029	Electrical Distribution Systems	23	51	3
14VV1A0204	RT4102L	Microprocessors & Microcontrollers Lab	23	44	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0204	RT4102M	Electrical Simulation Lab	24	42	2
14VV1A0204	RT4102N	Power Systems Lab	22	42	2
14VV1A0205	RT41021	Renewable Energy Sources and Systems	28	47	3
14VV1A0205	RT41022	HVAC & DC Transmission	25	54	3
14VV1A0205	RT41023	Power System Operation & Control	20	37	3
14VV1A0205	RT41025	Instrumentation	24	54	3
14VV1A0205	RT41029	Electrical Distribution Systems	26	37	3
14VV1A0205	RT4102L	Microprocessors & Microcontrollers Lab	24	44	2
14VV1A0205	RT4102M	Electrical Simulation Lab	22	40	2
14VV1A0205	RT4102N	Power Systems Lab	21	35	2
14VV1A0206	RT41021	Renewable Energy Sources and Systems	25	38	3
14VV1A0206	RT41022	HVAC & DC Transmission	23	47	3
14VV1A0206	RT41023	Power System Operation & Control	20	42	3
14VV1A0206	RT41025	Instrumentation	22	49	3
14VV1A0206	RT41029	Electrical Distribution Systems	26	46	3
14VV1A0206	RT4102L	Microprocessors & Microcontrollers Lab	21	45	2
14VV1A0206	RT4102M	Electrical Simulation Lab	23	40	2
14VV1A0206	RT4102N	Power Systems Lab	20	35	2
14VV1A0207	RT41021	Renewable Energy Sources and Systems	29	45	3
14VV1A0207	RT41022	HVAC & DC Transmission	25	52	3
14VV1A0207	RT41023	Power System Operation & Control	27	41	3
14VV1A0207	RT41025	Instrumentation	25	38	3
14VV1A0207	RT41029	Electrical Distribution Systems	25	47	3
14VV1A0207	RT4102L	Microprocessors & Microcontrollers Lab	23	45	2
14VV1A0207	RT4102M	Electrical Simulation Lab	22	40	2
14VV1A0207	RT4102N	Power Systems Lab	22	35	2
14VV1A0208	RT41021	Renewable Energy Sources and Systems	15	32	3
14VV1A0208	RT41022	HVAC & DC Transmission	13	27	3
14VV1A0208	RT41023	Power System Operation & Control	7	33	3
14VV1A0208	RT41025	Instrumentation	20	-1	0
14VV1A0208	RT41029	Electrical Distribution Systems	20	41	3
14VV1A0208	RT4102L	Microprocessors & Microcontrollers Lab	20	34	2
14VV1A0208	RT4102M	Electrical Simulation Lab	19	20	2
14VV1A0208	RT4102N	Power Systems Lab	19	25	2
14VV1A0209	RT41021	Renewable Energy Sources and Systems	28	44	3
14VV1A0209	RT41022	HVAC & DC Transmission	25	55	3
14VV1A0209	RT41023	Power System Operation & Control	26	44	3
14VV1A0209	RT41025	Instrumentation	24	51	3
14VV1A0209	RT41029	Electrical Distribution Systems	26	50	3
14VV1A0209	RT4102L	Microprocessors & Microcontrollers Lab	21	45	2
14VV1A0209	RT4102M	Electrical Simulation Lab	23	39	2
14VV1A0209	RT4102N	Power Systems Lab	22	38	2
14VV1A0212	RT41021	Renewable Energy Sources and Systems	26	40	3
14VV1A0212	RT41022	HVAC & DC Transmission	24	54	3
14VV1A0212	RT41023	Power System Operation & Control	26	38	3
14VV1A0212	RT41025	Instrumentation	26	41	3
14VV1A0212	RT41029	Electrical Distribution Systems	23	42	3
14VV1A0212	RT4102L	Microprocessors & Microcontrollers Lab	23	44	2
14VV1A0212	RT4102M	Electrical Simulation Lab	21	42	2
14VV1A0212	RT4102N	Power Systems Lab	21	28	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0213	RT41021	Renewable Energy Sources and Systems	29	49	3
14VV1A0213	RT41022	HVAC & DC Transmission	26	58	3
14VV1A0213	RT41023	Power System Operation & Control	21	40	3
14VV1A0213	RT41025	Instrumentation	23	59	3
14VV1A0213	RT41029	Electrical Distribution Systems	25	45	3
14VV1A0213	RT4102L	Microprocessors & Microcontrollers Lab	20	44	2
14VV1A0213	RT4102M	Electrical Simulation Lab	23	44	2
14VV1A0213	RT4102N	Power Systems Lab	19	39	2
14VV1A0214	RT41021	Renewable Energy Sources and Systems	23	34	3
14VV1A0214	RT41022	HVAC & DC Transmission	25	47	3
14VV1A0214	RT41023	Power System Operation & Control	23	34	3
14VV1A0214	RT41025	Instrumentation	18	54	3
14VV1A0214	RT41029	Electrical Distribution Systems	18	50	3
14VV1A0214	RT4102L	Microprocessors & Microcontrollers Lab	23	39	2
14VV1A0214	RT4102M	Electrical Simulation Lab	19	31	2
14VV1A0214	RT4102N	Power Systems Lab	20	35	2
14VV1A0215	RT41021	Renewable Energy Sources and Systems	27	39	3
14VV1A0215	RT41022	HVAC & DC Transmission	24	48	3
14VV1A0215	RT41023	Power System Operation & Control	29	38	3
14VV1A0215	RT41025	Instrumentation	21	49	3
14VV1A0215	RT41029	Electrical Distribution Systems	26	49	3
14VV1A0215	RT4102L	Microprocessors & Microcontrollers Lab	20	44	2
14VV1A0215	RT4102M	Electrical Simulation Lab	23	35	2
14VV1A0215	RT4102N	Power Systems Lab	22	42	2
14VV1A0216	RT41021	Renewable Energy Sources and Systems	28	44	3
14VV1A0216	RT41022	HVAC & DC Transmission	20	48	3
14VV1A0216	RT41023	Power System Operation & Control	25	42	3
14VV1A0216	RT41025	Instrumentation	25	47	3
14VV1A0216	RT41029	Electrical Distribution Systems	22	46	3
14VV1A0216	RT4102L	Microprocessors & Microcontrollers Lab	21	44	2
14VV1A0216	RT4102M	Electrical Simulation Lab	24	40	2
14VV1A0216	RT4102N	Power Systems Lab	20	35	2
14VV1A0218	RT41021	Renewable Energy Sources and Systems	27	36	3
14VV1A0218	RT41022	HVAC & DC Transmission	25	41	3
14VV1A0218	RT41023	Power System Operation & Control	27	29	3
14VV1A0218	RT41025	Instrumentation	20	54	3
14VV1A0218	RT41029	Electrical Distribution Systems	25	40	3
14VV1A0218	RT4102L	Microprocessors & Microcontrollers Lab	23	47	2
14VV1A0218	RT4102M	Electrical Simulation Lab	23	42	2
14VV1A0218	RT4102N	Power Systems Lab	20	35	2
14VV1A0219	RT41021	Renewable Energy Sources and Systems	29	39	3
14VV1A0219	RT41022	HVAC & DC Transmission	26	40	3
14VV1A0219	RT41023	Power System Operation & Control	25	35	3
14VV1A0219	RT41025	Instrumentation	21	51	3
14VV1A0219	RT41029	Electrical Distribution Systems	25	44	3
14VV1A0219	RT4102L	Microprocessors & Microcontrollers Lab	25	44	2
14VV1A0219	RT4102M	Electrical Simulation Lab	24	43	2
14VV1A0219	RT4102N	Power Systems Lab	20	39	2
14VV1A0220	RT41021	Renewable Energy Sources and Systems	27	33	3
14VV1A0220	RT41022	HVAC & DC Transmission	24	45	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0220	RT41023	Power System Operation & Control	23	31	3
14VV1A0220	RT41025	Instrumentation	19	49	3
14VV1A0220	RT41029	Electrical Distribution Systems	21	37	3
14VV1A0220	RT4102L	Microprocessors & Microcontrollers Lab	20	45	2
14VV1A0220	RT4102M	Electrical Simulation Lab	21	25	2
14VV1A0220	RT4102N	Power Systems Lab	22	36	2
14VV1A0221	RT41021	Renewable Energy Sources and Systems	29	48	3
14VV1A0221	RT41022	HVAC & DC Transmission	27	52	3
14VV1A0221	RT41023	Power System Operation & Control	23	40	3
14VV1A0221	RT41025	Instrumentation	24	51	3
14VV1A0221	RT41029	Electrical Distribution Systems	25	47	3
14VV1A0221	RT4102L	Microprocessors & Microcontrollers Lab	18	47	2
14VV1A0221	RT4102M	Electrical Simulation Lab	23	38	2
14VV1A0221	RT4102N	Power Systems Lab	20	39	2
14VV1A0222	RT41021	Renewable Energy Sources and Systems	26	35	3
14VV1A0222	RT41022	HVAC & DC Transmission	20	38	3
14VV1A0222	RT41023	Power System Operation & Control	24	31	3
14VV1A0222	RT41025	Instrumentation	23	46	3
14VV1A0222	RT41029	Electrical Distribution Systems	26	45	3
14VV1A0222	RT4102L	Microprocessors & Microcontrollers Lab	21	39	2
14VV1A0222	RT4102M	Electrical Simulation Lab	22	29	2
14VV1A0222	RT4102N	Power Systems Lab	21	25	2
14VV1A0223	RT41021	Renewable Energy Sources and Systems	29	49	3
14VV1A0223	RT41022	HVAC & DC Transmission	25	49	3
14VV1A0223	RT41023	Power System Operation & Control	26	42	3
14VV1A0223	RT41025	Instrumentation	24	56	3
14VV1A0223	RT41029	Electrical Distribution Systems	26	47	3
14VV1A0223	RT4102L	Microprocessors & Microcontrollers Lab	21	45	2
14VV1A0223	RT4102M	Electrical Simulation Lab	24	41	2
14VV1A0223	RT4102N	Power Systems Lab	20	35	2
14VV1A0224	RT41021	Renewable Energy Sources and Systems	28	34	3
14VV1A0224	RT41022	HVAC & DC Transmission	24	43	3
14VV1A0224	RT41023	Power System Operation & Control	28	30	3
14VV1A0224	RT41025	Instrumentation	25	39	3
14VV1A0224	RT41029	Electrical Distribution Systems	22	41	3
14VV1A0224	RT4102L	Microprocessors & Microcontrollers Lab	20	46	2
14VV1A0224	RT4102M	Electrical Simulation Lab	20	38	2
14VV1A0224	RT4102N	Power Systems Lab	21	37	2
14VV1A0225	RT41021	Renewable Energy Sources and Systems	29	41	3
14VV1A0225	RT41022	HVAC & DC Transmission	25	45	3
14VV1A0225	RT41023	Power System Operation & Control	22	31	3
14VV1A0225	RT41025	Instrumentation	24	48	3
14VV1A0225	RT41029	Electrical Distribution Systems	25	43	3
14VV1A0225	RT4102L	Microprocessors & Microcontrollers Lab	25	44	2
14VV1A0225	RT4102M	Electrical Simulation Lab	21	38	2
14VV1A0225	RT4102N	Power Systems Lab	21	33	2
14VV1A0226	RT41021	Renewable Energy Sources and Systems	27	51	3
14VV1A0226	RT41022	HVAC & DC Transmission	24	58	3
14VV1A0226	RT41023	Power System Operation & Control	25	42	3
14VV1A0226	RT41025	Instrumentation	20	46	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0226	RT41029	Electrical Distribution Systems	21	50	3
14VV1A0226	RT4102L	Microprocessors & Microcontrollers Lab	23	46	2
14VV1A0226	RT4102M	Electrical Simulation Lab	23	40	2
14VV1A0226	RT4102N	Power Systems Lab	23	36	2
14VV1A0227	RT41021	Renewable Energy Sources and Systems	27	47	3
14VV1A0227	RT41022	HVAC & DC Transmission	24	55	3
14VV1A0227	RT41023	Power System Operation & Control	25	39	3
14VV1A0227	RT41025	Instrumentation	23	51	3
14VV1A0227	RT41029	Electrical Distribution Systems	25	50	3
14VV1A0227	RT4102L	Microprocessors & Microcontrollers Lab	20	44	2
14VV1A0227	RT4102M	Electrical Simulation Lab	22	37	2
14VV1A0227	RT4102N	Power Systems Lab	21	42	2
14VV1A0228	RT41021	Renewable Energy Sources and Systems	29	52	3
14VV1A0228	RT41022	HVAC & DC Transmission	25	55	3
14VV1A0228	RT41023	Power System Operation & Control	27	43	3
14VV1A0228	RT41025	Instrumentation	22	60	3
14VV1A0228	RT41029	Electrical Distribution Systems	27	49	3
14VV1A0228	RT4102L	Microprocessors & Microcontrollers Lab	25	44	2
14VV1A0228	RT4102M	Electrical Simulation Lab	24	45	2
14VV1A0228	RT4102N	Power Systems Lab	22	39	2
14VV1A0229	RT41021	Renewable Energy Sources and Systems	20	38	3
14VV1A0229	RT41022	HVAC & DC Transmission	19	53	3
14VV1A0229	RT41023	Power System Operation & Control	23	39	3
14VV1A0229	RT41025	Instrumentation	21	38	3
14VV1A0229	RT41029	Electrical Distribution Systems	19	38	3
14VV1A0229	RT4102L	Microprocessors & Microcontrollers Lab	21	44	2
14VV1A0229	RT4102M	Electrical Simulation Lab	20	35	2
14VV1A0229	RT4102N	Power Systems Lab	17	35	2
14VV1A0230	RT41021	Renewable Energy Sources and Systems	30	48	3
14VV1A0230	RT41022	HVAC & DC Transmission	24	61	3
14VV1A0230	RT41023	Power System Operation & Control	26	44	3
14VV1A0230	RT41025	Instrumentation	24	55	3
14VV1A0230	RT41029	Electrical Distribution Systems	25	52	3
14VV1A0230	RT4102L	Microprocessors & Microcontrollers Lab	21	44	2
14VV1A0230	RT4102M	Electrical Simulation Lab	24	43	2
14VV1A0230	RT4102N	Power Systems Lab	23	40	2
14VV1A0231	RT41021	Renewable Energy Sources and Systems	26	43	3
14VV1A0231	RT41022	HVAC & DC Transmission	22	42	3
14VV1A0231	RT41023	Power System Operation & Control	21	46	3
14VV1A0231	RT41025	Instrumentation	23	42	3
14VV1A0231	RT41029	Electrical Distribution Systems	17	48	3
14VV1A0231	RT4102L	Microprocessors & Microcontrollers Lab	21	44	2
14VV1A0231	RT4102M	Electrical Simulation Lab	23	39	2
14VV1A0231	RT4102N	Power Systems Lab	21	37	2
14VV1A0232	RT41021	Renewable Energy Sources and Systems	27	51	3
14VV1A0232	RT41022	HVAC & DC Transmission	27	58	3
14VV1A0232	RT41023	Power System Operation & Control	27	39	3
14VV1A0232	RT41025	Instrumentation	24	56	3
14VV1A0232	RT41029	Electrical Distribution Systems	26	48	3
14VV1A0232	RT4102L	Microprocessors & Microcontrollers Lab	23	44	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0232	RT4102M	Electrical Simulation Lab	23	43	2
14VV1A0232	RT4102N	Power Systems Lab	21	32	2
14VV1A0233	RT41021	Renewable Energy Sources and Systems	28	42	3
14VV1A0233	RT41022	HVAC & DC Transmission	23	39	3
14VV1A0233	RT41023	Power System Operation & Control	23	39	3
14VV1A0233	RT41025	Instrumentation	23	46	3
14VV1A0233	RT41029	Electrical Distribution Systems	19	46	3
14VV1A0233	RT4102L	Microprocessors & Microcontrollers Lab	19	46	2
14VV1A0233	RT4102M	Electrical Simulation Lab	22	38	2
14VV1A0233	RT4102N	Power Systems Lab	21	33	2
14VV1A0234	RT41021	Renewable Energy Sources and Systems	17	34	3
14VV1A0234	RT41022	HVAC & DC Transmission	21	36	3
14VV1A0234	RT41023	Power System Operation & Control	20	39	3
14VV1A0234	RT41025	Instrumentation	22	35	3
14VV1A0234	RT41029	Electrical Distribution Systems	16	51	3
14VV1A0234	RT4102L	Microprocessors & Microcontrollers Lab	21	34	2
14VV1A0234	RT4102M	Electrical Simulation Lab	18	26	2
14VV1A0234	RT4102N	Power Systems Lab	15	40	2
14VV1A0236	RT41021	Renewable Energy Sources and Systems	27	47	3
14VV1A0236	RT41022	HVAC & DC Transmission	23	49	3
14VV1A0236	RT41023	Power System Operation & Control	20	46	3
14VV1A0236	RT41025	Instrumentation	21	50	3
14VV1A0236	RT41029	Electrical Distribution Systems	26	48	3
14VV1A0236	RT4102L	Microprocessors & Microcontrollers Lab	20	44	2
14VV1A0236	RT4102M	Electrical Simulation Lab	21	40	2
14VV1A0236	RT4102N	Power Systems Lab	20	41	2
14VV1A0237	RT41021	Renewable Energy Sources and Systems	24	42	3
14VV1A0237	RT41022	HVAC & DC Transmission	22	44	3
14VV1A0237	RT41023	Power System Operation & Control	25	35	3
14VV1A0237	RT41025	Instrumentation	20	54	3
14VV1A0237	RT41029	Electrical Distribution Systems	26	47	3
14VV1A0237	RT4102L	Microprocessors & Microcontrollers Lab	18	42	2
14VV1A0237	RT4102M	Electrical Simulation Lab	19	26	2
14VV1A0237	RT4102N	Power Systems Lab	18	37	2
14VV1A0238	RT41021	Renewable Energy Sources and Systems	27	44	3
14VV1A0238	RT41022	HVAC & DC Transmission	24	48	3
14VV1A0238	RT41023	Power System Operation & Control	28	43	3
14VV1A0238	RT41025	Instrumentation	22	52	3
14VV1A0238	RT41029	Electrical Distribution Systems	26	44	3
14VV1A0238	RT4102L	Microprocessors & Microcontrollers Lab	17	45	2
14VV1A0238	RT4102M	Electrical Simulation Lab	21	33	2
14VV1A0238	RT4102N	Power Systems Lab	22	40	2
14VV1A0239	RT41021	Renewable Energy Sources and Systems	18	52	3
14VV1A0239	RT41022	HVAC & DC Transmission	22	47	3
14VV1A0239	RT41023	Power System Operation & Control	21	40	3
14VV1A0239	RT41025	Instrumentation	21	48	3
14VV1A0239	RT41029	Electrical Distribution Systems	21	52	3
14VV1A0239	RT4102L	Microprocessors & Microcontrollers Lab	19	44	2
14VV1A0239	RT4102M	Electrical Simulation Lab	19	34	2
14VV1A0239	RT4102N	Power Systems Lab	18	32	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0240	RT41021	Renewable Energy Sources and Systems	27	42	3
14VV1A0240	RT41022	HVAC & DC Transmission	24	52	3
14VV1A0240	RT41023	Power System Operation & Control	21	46	3
14VV1A0240	RT41025	Instrumentation	23	51	3
14VV1A0240	RT41029	Electrical Distribution Systems	23	47	3
14VV1A0240	RT4102L	Microprocessors & Microcontrollers Lab	19	44	2
14VV1A0240	RT4102M	Electrical Simulation Lab	22	40	2
14VV1A0240	RT4102N	Power Systems Lab	22	34	2
14VV1A0241	RT41021	Renewable Energy Sources and Systems	28	39	3
14VV1A0241	RT41022	HVAC & DC Transmission	19	42	3
14VV1A0241	RT41023	Power System Operation & Control	26	28	3
14VV1A0241	RT41025	Instrumentation	22	37	3
14VV1A0241	RT41029	Electrical Distribution Systems	24	40	3
14VV1A0241	RT4102L	Microprocessors & Microcontrollers Lab	17	44	2
14VV1A0241	RT4102M	Electrical Simulation Lab	20	29	2
14VV1A0241	RT4102N	Power Systems Lab	20	37	2
14VV1A0242	RT41021	Renewable Energy Sources and Systems	16	38	3
14VV1A0242	RT41022	HVAC & DC Transmission	17	39	3
14VV1A0242	RT41023	Power System Operation & Control	22	32	3
14VV1A0242	RT41025	Instrumentation	21	43	3
14VV1A0242	RT41029	Electrical Distribution Systems	21	36	3
14VV1A0242	RT4102L	Microprocessors & Microcontrollers Lab	16	41	2
14VV1A0242	RT4102M	Electrical Simulation Lab	18	33	2
14VV1A0242	RT4102N	Power Systems Lab	19	29	2
14VV1A0243	RT41021	Renewable Energy Sources and Systems	28	38	3
14VV1A0243	RT41022	HVAC & DC Transmission	23	54	3
14VV1A0243	RT41023	Power System Operation & Control	28	32	3
14VV1A0243	RT41025	Instrumentation	24	47	3
14VV1A0243	RT41029	Electrical Distribution Systems	26	44	3
14VV1A0243	RT4102L	Microprocessors & Microcontrollers Lab	23	45	2
14VV1A0243	RT4102M	Electrical Simulation Lab	22	39	2
14VV1A0243	RT4102N	Power Systems Lab	19	31	2
14VV1A0244	RT41021	Renewable Energy Sources and Systems	28	45	3
14VV1A0244	RT41022	HVAC & DC Transmission	25	45	3
14VV1A0244	RT41023	Power System Operation & Control	21	36	3
14VV1A0244	RT41025	Instrumentation	24	47	3
14VV1A0244	RT41029	Electrical Distribution Systems	27	42	3
14VV1A0244	RT4102L	Microprocessors & Microcontrollers Lab	18	45	2
14VV1A0244	RT4102M	Electrical Simulation Lab	21	41	2
14VV1A0244	RT4102N	Power Systems Lab	19	31	2
14VV1A0245	RT41021	Renewable Energy Sources and Systems	29	44	3
14VV1A0245	RT41022	HVAC & DC Transmission	26	57	3
14VV1A0245	RT41023	Power System Operation & Control	25	36	3
14VV1A0245	RT41025	Instrumentation	25	52	3
14VV1A0245	RT41029	Electrical Distribution Systems	25	49	3
14VV1A0245	RT4102L	Microprocessors & Microcontrollers Lab	17	48	2
14VV1A0245	RT4102M	Electrical Simulation Lab	24	46	2
14VV1A0245	RT4102N	Power Systems Lab	22	44	2
14VV1A0246	RT41021	Renewable Energy Sources and Systems	26	50	3
14VV1A0246	RT41022	HVAC & DC Transmission	22	52	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0246	RT41023	Power System Operation & Control	20	45	3
14VV1A0246	RT41025	Instrumentation	25	51	3
14VV1A0246	RT41029	Electrical Distribution Systems	25	45	3
14VV1A0246	RT4102L	Microprocessors & Microcontrollers Lab	20	44	2
14VV1A0246	RT4102M	Electrical Simulation Lab	23	40	2
14VV1A0246	RT4102N	Power Systems Lab	22	40	2
14VV1A0247	RT41021	Renewable Energy Sources and Systems	28	54	3
14VV1A0247	RT41022	HVAC & DC Transmission	23	50	3
14VV1A0247	RT41023	Power System Operation & Control	20	46	3
14VV1A0247	RT41025	Instrumentation	23	52	3
14VV1A0247	RT41029	Electrical Distribution Systems	25	48	3
14VV1A0247	RT4102L	Microprocessors & Microcontrollers Lab	19	45	2
14VV1A0247	RT4102M	Electrical Simulation Lab	23	46	2
14VV1A0247	RT4102N	Power Systems Lab	20	35	2
14VV1A0248	RT41021	Renewable Energy Sources and Systems	27	34	3
14VV1A0248	RT41022	HVAC & DC Transmission	25	42	3
14VV1A0248	RT41023	Power System Operation & Control	24	33	3
14VV1A0248	RT41025	Instrumentation	24	31	3
14VV1A0248	RT41029	Electrical Distribution Systems	24	38	3
14VV1A0248	RT4102L	Microprocessors & Microcontrollers Lab	19	39	2
14VV1A0248	RT4102M	Electrical Simulation Lab	21	28	2
14VV1A0248	RT4102N	Power Systems Lab	21	39	2
14VV1A0249	RT41021	Renewable Energy Sources and Systems	25	51	3
14VV1A0249	RT41022	HVAC & DC Transmission	22	50	3
14VV1A0249	RT41023	Power System Operation & Control	20	47	3
14VV1A0249	RT41025	Instrumentation	24	52	3
14VV1A0249	RT41029	Electrical Distribution Systems	24	51	3
14VV1A0249	RT4102L	Microprocessors & Microcontrollers Lab	19	45	2
14VV1A0249	RT4102M	Electrical Simulation Lab	22	37	2
14VV1A0249	RT4102N	Power Systems Lab	19	38	2
14VV1A0250	RT41021	Renewable Energy Sources and Systems	26	41	3
14VV1A0250	RT41022	HVAC & DC Transmission	23	48	3
14VV1A0250	RT41023	Power System Operation & Control	24	35	3
14VV1A0250	RT41025	Instrumentation	22	46	3
14VV1A0250	RT41029	Electrical Distribution Systems	21	46	3
14VV1A0250	RT4102L	Microprocessors & Microcontrollers Lab	23	45	2
14VV1A0250	RT4102M	Electrical Simulation Lab	22	32	2
14VV1A0250	RT4102N	Power Systems Lab	20	38	2
14VV1A0251	RT41021	Renewable Energy Sources and Systems	24	39	3
14VV1A0251	RT41022	HVAC & DC Transmission	21	46	3
14VV1A0251	RT41023	Power System Operation & Control	19	39	3
14VV1A0251	RT41025	Instrumentation	17	35	3
14VV1A0251	RT41029	Electrical Distribution Systems	21	48	3
14VV1A0251	RT4102L	Microprocessors & Microcontrollers Lab	16	44	2
14VV1A0251	RT4102M	Electrical Simulation Lab	20	23	2
14VV1A0251	RT4102N	Power Systems Lab	20	25	2
14VV1A0252	RT41021	Renewable Energy Sources and Systems	28	45	3
14VV1A0252	RT41022	HVAC & DC Transmission	22	57	3
14VV1A0252	RT41023	Power System Operation & Control	22	42	3
14VV1A0252	RT41025	Instrumentation	19	54	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0252	RT41029	Electrical Distribution Systems	21	45	3
14VV1A0252	RT4102L	Microprocessors & Microcontrollers Lab	22	45	2
14VV1A0252	RT4102M	Electrical Simulation Lab	21	34	2
14VV1A0252	RT4102N	Power Systems Lab	21	34	2
14VV1A0253	RT41021	Renewable Energy Sources and Systems	28	33	3
14VV1A0253	RT41022	HVAC & DC Transmission	22	43	3
14VV1A0253	RT41023	Power System Operation & Control	24	41	3
14VV1A0253	RT41025	Instrumentation	22	48	3
14VV1A0253	RT41029	Electrical Distribution Systems	21	44	3
14VV1A0253	RT4102L	Microprocessors & Microcontrollers Lab	18	44	2
14VV1A0253	RT4102M	Electrical Simulation Lab	23	43	2
14VV1A0253	RT4102N	Power Systems Lab	19	38	2
14VV1A0254	RT41021	Renewable Energy Sources and Systems	14	38	3
14VV1A0254	RT41022	HVAC & DC Transmission	20	39	3
14VV1A0254	RT41023	Power System Operation & Control	24	37	3
14VV1A0254	RT41025	Instrumentation	16	32	3
14VV1A0254	RT41029	Electrical Distribution Systems	27	36	3
14VV1A0254	RT4102L	Microprocessors & Microcontrollers Lab	22	39	2
14VV1A0254	RT4102M	Electrical Simulation Lab	19	38	2
14VV1A0254	RT4102N	Power Systems Lab	16	31	2
14VV1A0255	RT41021	Renewable Energy Sources and Systems	26	41	3
14VV1A0255	RT41022	HVAC & DC Transmission	23	46	3
14VV1A0255	RT41023	Power System Operation & Control	16	32	3
14VV1A0255	RT41025	Instrumentation	19	43	3
14VV1A0255	RT41029	Electrical Distribution Systems	25	42	3
14VV1A0255	RT4102L	Microprocessors & Microcontrollers Lab	25	46	2
14VV1A0255	RT4102M	Electrical Simulation Lab	22	39	2
14VV1A0255	RT4102N	Power Systems Lab	19	32	2
14VV1A0256	RT41021	Renewable Energy Sources and Systems	15	39	3
14VV1A0256	RT41022	HVAC & DC Transmission	17	44	3
14VV1A0256	RT41023	Power System Operation & Control	8	35	3
14VV1A0256	RT41025	Instrumentation	15	43	3
14VV1A0256	RT41029	Electrical Distribution Systems	25	37	3
14VV1A0256	RT4102L	Microprocessors & Microcontrollers Lab	24	45	2
14VV1A0256	RT4102M	Electrical Simulation Lab	18	27	2
14VV1A0256	RT4102N	Power Systems Lab	21	29	2
14VV1A0301	RT41031	Automobile Engineering	20	32	3
14VV1A0301	RT41032	CAD/CAM	24	44	3
14VV1A0301	RT41033	Finite Element Methods	26	37	3
14VV1A0301	RT41034	Unconventional Machining Processes	25	43	3
14VV1A0301	RT41035	Micro Electro Mechanical Systems	24	41	3
14VV1A0301	RT41039	Automation in Manufacturing	24	46	3
14VV1A0301	RT4103L	Simulation Lab	20	44	2
14VV1A0302	RT41031	Automobile Engineering	12	39	3
14VV1A0302	RT41032	CAD/CAM	16	36	3
14VV1A0302	RT41033	Finite Element Methods	12	16	0
14VV1A0302	RT41034	Unconventional Machining Processes	23	44	3
14VV1A0302	RT41035	Micro Electro Mechanical Systems	9	45	3
14VV1A0302	RT41039	Automation in Manufacturing	11	45	3
14VV1A0302	RT4103L	Simulation Lab	20	43	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0303	RT41031	Automobile Engineering	20	44	3
14VV1A0303	RT41032	CAD/CAM	23	41	3
14VV1A0303	RT41033	Finite Element Methods	26	37	3
14VV1A0303	RT41034	Unconventional Machining Processes	26	44	3
14VV1A0303	RT41035	Micro Electro Mechanical Systems	26	46	3
14VV1A0303	RT41039	Automation in Manufacturing	23	56	3
14VV1A0303	RT4103L	Simulation Lab	22	47	2
14VV1A0304	RT41031	Automobile Engineering	20	44	3
14VV1A0304	RT41032	CAD/CAM	27	44	3
14VV1A0304	RT41033	Finite Element Methods	29	46	3
14VV1A0304	RT41034	Unconventional Machining Processes	25	48	3
14VV1A0304	RT41035	Micro Electro Mechanical Systems	25	49	3
14VV1A0304	RT41039	Automation in Manufacturing	26	46	3
14VV1A0304	RT4103L	Simulation Lab	22	46	2
14VV1A0305	RT41031	Automobile Engineering	22	48	3
14VV1A0305	RT41032	CAD/CAM	19	44	3
14VV1A0305	RT41033	Finite Element Methods	29	48	3
14VV1A0305	RT41034	Unconventional Machining Processes	26	47	3
14VV1A0305	RT41035	Micro Electro Mechanical Systems	26	48	3
14VV1A0305	RT41039	Automation in Manufacturing	28	38	3
14VV1A0305	RT4103L	Simulation Lab	21	46	2
14VV1A0306	RT41031	Automobile Engineering	20	44	3
14VV1A0306	RT41032	CAD/CAM	25	40	3
14VV1A0306	RT41033	Finite Element Methods	24	46	3
14VV1A0306	RT41034	Unconventional Machining Processes	26	60	3
14VV1A0306	RT41035	Micro Electro Mechanical Systems	23	47	3
14VV1A0306	RT41039	Automation in Manufacturing	26	53	3
14VV1A0306	RT4103L	Simulation Lab	22	45	2
14VV1A0307	RT41031	Automobile Engineering	20	32	3
14VV1A0307	RT41032	CAD/CAM	15	34	3
14VV1A0307	RT41033	Finite Element Methods	25	24	3
14VV1A0307	RT41034	Unconventional Machining Processes	18	37	3
14VV1A0307	RT41035	Micro Electro Mechanical Systems	22	38	3
14VV1A0307	RT41039	Automation in Manufacturing	20	40	3
14VV1A0307	RT4103L	Simulation Lab	19	42	2
14VV1A0308	RT41031	Automobile Engineering	24	49	3
14VV1A0308	RT41032	CAD/CAM	21	44	3
14VV1A0308	RT41033	Finite Element Methods	28	38	3
14VV1A0308	RT41034	Unconventional Machining Processes	26	56	3
14VV1A0308	RT41035	Micro Electro Mechanical Systems	28	47	3
14VV1A0308	RT41039	Automation in Manufacturing	27	35	3
14VV1A0308	RT4103L	Simulation Lab	24	49	2
14VV1A0309	RT41031	Automobile Engineering	20	33	3
14VV1A0309	RT41032	CAD/CAM	18	43	3
14VV1A0309	RT41033	Finite Element Methods	27	31	3
14VV1A0309	RT41034	Unconventional Machining Processes	28	28	3
14VV1A0309	RT41035	Micro Electro Mechanical Systems	23	38	3
14VV1A0309	RT41039	Automation in Manufacturing	23	31	3
14VV1A0309	RT4103L	Simulation Lab	22	48	2
14VV1A0310	RT41031	Automobile Engineering	24	47	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0310	RT41032	CAD/CAM	23	42	3
14VV1A0310	RT41033	Finite Element Methods	28	47	3
14VV1A0310	RT41034	Unconventional Machining Processes	26	49	3
14VV1A0310	RT41035	Micro Electro Mechanical Systems	26	50	3
14VV1A0310	RT41039	Automation in Manufacturing	24	49	3
14VV1A0310	RT4103L	Simulation Lab	23	48	2
14VV1A0312	RT41031	Automobile Engineering	22	48	3
14VV1A0312	RT41032	CAD/CAM	29	46	3
14VV1A0312	RT41033	Finite Element Methods	27	38	3
14VV1A0312	RT41034	Unconventional Machining Processes	27	53	3
14VV1A0312	RT41035	Micro Electro Mechanical Systems	26	44	3
14VV1A0312	RT41039	Automation in Manufacturing	27	54	3
14VV1A0312	RT4103L	Simulation Lab	22	47	2
14VV1A0313	RT41031	Automobile Engineering	26	33	3
14VV1A0313	RT41032	CAD/CAM	28	41	3
14VV1A0313	RT41033	Finite Element Methods	27	45	3
14VV1A0313	RT41034	Unconventional Machining Processes	26	51	3
14VV1A0313	RT41035	Micro Electro Mechanical Systems	23	44	3
14VV1A0313	RT41039	Automation in Manufacturing	25	40	3
14VV1A0313	RT4103L	Simulation Lab	23	48	2
14VV1A0314	RT41031	Automobile Engineering	24	46	3
14VV1A0314	RT41032	CAD/CAM	27	50	3
14VV1A0314	RT41033	Finite Element Methods	27	50	3
14VV1A0314	RT41034	Unconventional Machining Processes	26	55	3
14VV1A0314	RT41035	Micro Electro Mechanical Systems	24	49	3
14VV1A0314	RT41039	Automation in Manufacturing	28	52	3
14VV1A0314	RT4103L	Simulation Lab	23	48	2
14VV1A0315	RT41031	Automobile Engineering	22	45	3
14VV1A0315	RT41032	CAD/CAM	24	40	3
14VV1A0315	RT41033	Finite Element Methods	28	43	3
14VV1A0315	RT41034	Unconventional Machining Processes	25	56	3
14VV1A0315	RT41035	Micro Electro Mechanical Systems	26	39	3
14VV1A0315	RT41039	Automation in Manufacturing	26	55	3
14VV1A0315	RT4103L	Simulation Lab	24	47	2
14VV1A0316	RT41031	Automobile Engineering	16	46	3
14VV1A0316	RT41032	CAD/CAM	24	50	3
14VV1A0316	RT41033	Finite Element Methods	20	42	3
14VV1A0316	RT41034	Unconventional Machining Processes	20	47	3
14VV1A0316	RT41035	Micro Electro Mechanical Systems	8	44	3
14VV1A0316	RT41039	Automation in Manufacturing	26	48	3
14VV1A0316	RT4103L	Simulation Lab	20	42	2
14VV1A0317	RT41031	Automobile Engineering	22	50	3
14VV1A0317	RT41032	CAD/CAM	26	33	3
14VV1A0317	RT41033	Finite Element Methods	25	42	3
14VV1A0317	RT41034	Unconventional Machining Processes	24	36	3
14VV1A0317	RT41035	Micro Electro Mechanical Systems	23	47	3
14VV1A0317	RT41039	Automation in Manufacturing	23	29	3
14VV1A0317	RT4103L	Simulation Lab	22	46	2
14VV1A0318	RT41031	Automobile Engineering	21	41	3
14VV1A0318	RT41032	CAD/CAM	25	43	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0318	RT41033	Finite Element Methods	28	34	3
14VV1A0318	RT41034	Unconventional Machining Processes	21	40	3
14VV1A0318	RT41035	Micro Electro Mechanical Systems	23	46	3
14VV1A0318	RT41039	Automation in Manufacturing	26	49	3
14VV1A0318	RT4103L	Simulation Lab	22	44	2
14VV1A0319	RT41031	Automobile Engineering	22	38	3
14VV1A0319	RT41032	CAD/CAM	24	37	3
14VV1A0319	RT41033	Finite Element Methods	29	32	3
14VV1A0319	RT41034	Unconventional Machining Processes	25	50	3
14VV1A0319	RT41035	Micro Electro Mechanical Systems	24	45	3
14VV1A0319	RT41039	Automation in Manufacturing	26	43	3
14VV1A0319	RT4103L	Simulation Lab	22	47	2
14VV1A0320	RT41031	Automobile Engineering	20	51	3
14VV1A0320	RT41032	CAD/CAM	25	41	3
14VV1A0320	RT41033	Finite Element Methods	22	26	3
14VV1A0320	RT41034	Unconventional Machining Processes	24	43	3
14VV1A0320	RT41035	Micro Electro Mechanical Systems	23	44	3
14VV1A0320	RT41039	Automation in Manufacturing	26	46	3
14VV1A0320	RT4103L	Simulation Lab	21	45	2
14VV1A0321	RT41031	Automobile Engineering	12	33	3
14VV1A0321	RT41032	CAD/CAM	26	41	3
14VV1A0321	RT41033	Finite Element Methods	21	24	3
14VV1A0321	RT41034	Unconventional Machining Processes	23	39	3
14VV1A0321	RT41035	Micro Electro Mechanical Systems	24	35	3
14VV1A0321	RT41039	Automation in Manufacturing	24	31	3
14VV1A0321	RT4103L	Simulation Lab	20	44	2
14VV1A0322	RT41031	Automobile Engineering	26	43	3
14VV1A0322	RT41032	CAD/CAM	25	44	3
14VV1A0322	RT41033	Finite Element Methods	26	43	3
14VV1A0322	RT41034	Unconventional Machining Processes	27	51	3
14VV1A0322	RT41035	Micro Electro Mechanical Systems	27	48	3
14VV1A0322	RT41039	Automation in Manufacturing	23	59	3
14VV1A0322	RT4103L	Simulation Lab	24	49	2
14VV1A0323	RT41031	Automobile Engineering	19	37	3
14VV1A0323	RT41032	CAD/CAM	23	42	3
14VV1A0323	RT41033	Finite Element Methods	25	35	3
14VV1A0323	RT41034	Unconventional Machining Processes	23	44	3
14VV1A0323	RT41035	Micro Electro Mechanical Systems	24	38	3
14VV1A0323	RT41039	Automation in Manufacturing	25	40	3
14VV1A0323	RT4103L	Simulation Lab	22	46	2
14VV1A0324	RT41031	Automobile Engineering	25	56	3
14VV1A0324	RT41032	CAD/CAM	29	56	3
14VV1A0324	RT41033	Finite Element Methods	28	46	3
14VV1A0324	RT41034	Unconventional Machining Processes	26	50	3
14VV1A0324	RT41035	Micro Electro Mechanical Systems	27	51	3
14VV1A0324	RT41039	Automation in Manufacturing	30	60	3
14VV1A0324	RT4103L	Simulation Lab	24	48	2
14VV1A0326	RT41031	Automobile Engineering	18	26	3
14VV1A0326	RT41032	CAD/CAM	26	37	3
14VV1A0326	RT41033	Finite Element Methods	27	34	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0326	RT41034	Unconventional Machining Processes	26	33	3
14VV1A0326	RT41035	Micro Electro Mechanical Systems	23	40	3
14VV1A0326	RT41039	Automation in Manufacturing	25	34	3
14VV1A0326	RT4103L	Simulation Lab	21	45	2
14VV1A0327	RT41031	Automobile Engineering	24	52	3
14VV1A0327	RT41032	CAD/CAM	29	45	3
14VV1A0327	RT41033	Finite Element Methods	29	42	3
14VV1A0327	RT41034	Unconventional Machining Processes	26	47	3
14VV1A0327	RT41035	Micro Electro Mechanical Systems	26	53	3
14VV1A0327	RT41039	Automation in Manufacturing	25	56	3
14VV1A0327	RT4103L	Simulation Lab	20	48	2
14VV1A0328	RT41031	Automobile Engineering	22	47	3
14VV1A0328	RT41032	CAD/CAM	24	44	3
14VV1A0328	RT41033	Finite Element Methods	27	43	3
14VV1A0328	RT41034	Unconventional Machining Processes	24	43	3
14VV1A0328	RT41035	Micro Electro Mechanical Systems	25	40	3
14VV1A0328	RT41039	Automation in Manufacturing	26	48	3
14VV1A0328	RT4103L	Simulation Lab	21	47	2
14VV1A0329	RT41031	Automobile Engineering	22	44	3
14VV1A0329	RT41032	CAD/CAM	26	43	3
14VV1A0329	RT41033	Finite Element Methods	27	39	3
14VV1A0329	RT41034	Unconventional Machining Processes	26	49	3
14VV1A0329	RT41035	Micro Electro Mechanical Systems	23	43	3
14VV1A0329	RT41039	Automation in Manufacturing	24	46	3
14VV1A0329	RT4103L	Simulation Lab	21	46	2
14VV1A0330	RT41031	Automobile Engineering	24	47	3
14VV1A0330	RT41032	CAD/CAM	25	40	3
14VV1A0330	RT41033	Finite Element Methods	28	41	3
14VV1A0330	RT41034	Unconventional Machining Processes	25	46	3
14VV1A0330	RT41035	Micro Electro Mechanical Systems	25	43	3
14VV1A0330	RT41039	Automation in Manufacturing	27	44	3
14VV1A0330	RT4103L	Simulation Lab	24	49	2
14VV1A0331	RT41031	Automobile Engineering	20	44	3
14VV1A0331	RT41032	CAD/CAM	24	40	3
14VV1A0331	RT41033	Finite Element Methods	23	26	3
14VV1A0331	RT41034	Unconventional Machining Processes	25	41	3
14VV1A0331	RT41035	Micro Electro Mechanical Systems	27	40	3
14VV1A0331	RT41039	Automation in Manufacturing	23	48	3
14VV1A0331	RT4103L	Simulation Lab	23	48	2
14VV1A0332	RT41031	Automobile Engineering	18	39	3
14VV1A0332	RT41032	CAD/CAM	18	38	3
14VV1A0332	RT41033	Finite Element Methods	20	29	3
14VV1A0332	RT41034	Unconventional Machining Processes	24	42	3
14VV1A0332	RT41035	Micro Electro Mechanical Systems	24	44	3
14VV1A0332	RT41039	Automation in Manufacturing	26	44	3
14VV1A0332	RT4103L	Simulation Lab	21	45	2
14VV1A0333	RT41031	Automobile Engineering	22	40	3
14VV1A0333	RT41032	CAD/CAM	25	51	3
14VV1A0333	RT41033	Finite Element Methods	22	46	3
14VV1A0333	RT41034	Unconventional Machining Processes	27	55	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0333	RT41035	Micro Electro Mechanical Systems	25	45	3
14VV1A0333	RT41039	Automation in Manufacturing	23	60	3
14VV1A0333	RT4103L	Simulation Lab	23	47	2
14VV1A0334	RT41031	Automobile Engineering	18	44	3
14VV1A0334	RT41032	CAD/CAM	22	35	3
14VV1A0334	RT41033	Finite Element Methods	18	40	3
14VV1A0334	RT41034	Unconventional Machining Processes	25	34	3
14VV1A0334	RT41035	Micro Electro Mechanical Systems	28	40	3
14VV1A0334	RT41039	Automation in Manufacturing	25	37	3
14VV1A0334	RT4103L	Simulation Lab	23	49	2
14VV1A0335	RT41031	Automobile Engineering	21	35	3
14VV1A0335	RT41032	CAD/CAM	21	40	3
14VV1A0335	RT41033	Finite Element Methods	23	32	3
14VV1A0335	RT41034	Unconventional Machining Processes	22	39	3
14VV1A0335	RT41035	Micro Electro Mechanical Systems	11	42	3
14VV1A0335	RT41039	Automation in Manufacturing	24	39	3
14VV1A0335	RT4103L	Simulation Lab	19	40	2
14VV1A0336	RT41031	Automobile Engineering	19	46	3
14VV1A0336	RT41032	CAD/CAM	27	37	3
14VV1A0336	RT41033	Finite Element Methods	20	44	3
14VV1A0336	RT41034	Unconventional Machining Processes	27	46	3
14VV1A0336	RT41035	Micro Electro Mechanical Systems	26	48	3
14VV1A0336	RT41039	Automation in Manufacturing	25	52	3
14VV1A0336	RT4103L	Simulation Lab	21	43	2
14VV1A0337	RT41031	Automobile Engineering	19	40	3
14VV1A0337	RT41032	CAD/CAM	25	38	3
14VV1A0337	RT41033	Finite Element Methods	13	27	3
14VV1A0337	RT41034	Unconventional Machining Processes	21	34	3
14VV1A0337	RT41035	Micro Electro Mechanical Systems	20	36	3
14VV1A0337	RT41039	Automation in Manufacturing	27	27	3
14VV1A0337	RT4103L	Simulation Lab	19	43	2
14VV1A0338	RT41031	Automobile Engineering	22	46	3
14VV1A0338	RT41032	CAD/CAM	26	43	3
14VV1A0338	RT41033	Finite Element Methods	25	38	3
14VV1A0338	RT41034	Unconventional Machining Processes	24	46	3
14VV1A0338	RT41035	Micro Electro Mechanical Systems	26	48	3
14VV1A0338	RT41039	Automation in Manufacturing	26	48	3
14VV1A0338	RT4103L	Simulation Lab	24	49	2
14VV1A0340	RT41031	Automobile Engineering	24	48	3
14VV1A0340	RT41032	CAD/CAM	23	42	3
14VV1A0340	RT41033	Finite Element Methods	30	50	3
14VV1A0340	RT41034	Unconventional Machining Processes	26	52	3
14VV1A0340	RT41035	Micro Electro Mechanical Systems	26	45	3
14VV1A0340	RT41039	Automation in Manufacturing	25	56	3
14VV1A0340	RT4103L	Simulation Lab	22	48	2
14VV1A0341	RT41031	Automobile Engineering	22	48	3
14VV1A0341	RT41032	CAD/CAM	26	44	3
14VV1A0341	RT41033	Finite Element Methods	27	56	3
14VV1A0341	RT41034	Unconventional Machining Processes	28	56	3
14VV1A0341	RT41035	Micro Electro Mechanical Systems	25	45	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0341	RT41039	Automation in Manufacturing	24	64	3
14VV1A0341	RT4103L	Simulation Lab	24	49	2
14VV1A0343	RT41031	Automobile Engineering	24	39	3
14VV1A0343	RT41032	CAD/CAM	25	43	3
14VV1A0343	RT41033	Finite Element Methods	28	37	3
14VV1A0343	RT41034	Unconventional Machining Processes	25	52	3
14VV1A0343	RT41035	Micro Electro Mechanical Systems	25	45	3
14VV1A0343	RT41039	Automation in Manufacturing	27	42	3
14VV1A0343	RT4103L	Simulation Lab	23	48	2
14VV1A0344	RT41031	Automobile Engineering	24	50	3
14VV1A0344	RT41032	CAD/CAM	27	41	3
14VV1A0344	RT41033	Finite Element Methods	30	46	3
14VV1A0344	RT41034	Unconventional Machining Processes	25	57	3
14VV1A0344	RT41035	Micro Electro Mechanical Systems	28	49	3
14VV1A0344	RT41039	Automation in Manufacturing	27	53	3
14VV1A0344	RT4103L	Simulation Lab	23	49	2
14VV1A0345	RT41031	Automobile Engineering	17	29	3
14VV1A0345	RT41032	CAD/CAM	20	33	3
14VV1A0345	RT41033	Finite Element Methods	21	25	3
14VV1A0345	RT41034	Unconventional Machining Processes	26	45	3
14VV1A0345	RT41035	Micro Electro Mechanical Systems	25	40	3
14VV1A0345	RT41039	Automation in Manufacturing	27	38	3
14VV1A0345	RT4103L	Simulation Lab	22	48	2
14VV1A0346	RT41031	Automobile Engineering	17	26	3
14VV1A0346	RT41032	CAD/CAM	21	28	3
14VV1A0346	RT41033	Finite Element Methods	21	6	0
14VV1A0346	RT41034	Unconventional Machining Processes	23	29	3
14VV1A0346	RT41035	Micro Electro Mechanical Systems	22	37	3
14VV1A0346	RT41039	Automation in Manufacturing	25	26	3
14VV1A0346	RT4103L	Simulation Lab	21	43	2
14VV1A0347	RT41031	Automobile Engineering	19	35	3
14VV1A0347	RT41032	CAD/CAM	24	33	3
14VV1A0347	RT41033	Finite Element Methods	28	24	3
14VV1A0347	RT41034	Unconventional Machining Processes	21	42	3
14VV1A0347	RT41035	Micro Electro Mechanical Systems	19	41	3
14VV1A0347	RT41039	Automation in Manufacturing	25	34	3
14VV1A0347	RT4103L	Simulation Lab	21	48	2
14VV1A0348	RT41031	Automobile Engineering	21	44	3
14VV1A0348	RT41032	CAD/CAM	29	40	3
14VV1A0348	RT41033	Finite Element Methods	19	34	3
14VV1A0348	RT41034	Unconventional Machining Processes	25	53	3
14VV1A0348	RT41035	Micro Electro Mechanical Systems	26	39	3
14VV1A0348	RT41039	Automation in Manufacturing	23	45	3
14VV1A0348	RT4103L	Simulation Lab	22	47	2
14VV1A0349	RT41031	Automobile Engineering	19	36	3
14VV1A0349	RT41032	CAD/CAM	26	45	3
14VV1A0349	RT41033	Finite Element Methods	26	46	3
14VV1A0349	RT41034	Unconventional Machining Processes	25	48	3
14VV1A0349	RT41035	Micro Electro Mechanical Systems	23	46	3
14VV1A0349	RT41039	Automation in Manufacturing	21	37	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0349	RT4103L	Simulation Lab	20	45	2
14VV1A0350	RT41031	Automobile Engineering	21	36	3
14VV1A0350	RT41032	CAD/CAM	23	38	3
14VV1A0350	RT41033	Finite Element Methods	23	47	3
14VV1A0350	RT41034	Unconventional Machining Processes	26	40	3
14VV1A0350	RT41035	Micro Electro Mechanical Systems	23	37	3
14VV1A0350	RT41039	Automation in Manufacturing	24	50	3
14VV1A0350	RT4103L	Simulation Lab	22	48	2
14VV1A0351	RT41031	Automobile Engineering	20	44	3
14VV1A0351	RT41032	CAD/CAM	27	41	3
14VV1A0351	RT41033	Finite Element Methods	25	34	3
14VV1A0351	RT41034	Unconventional Machining Processes	27	44	3
14VV1A0351	RT41035	Micro Electro Mechanical Systems	24	39	3
14VV1A0351	RT41039	Automation in Manufacturing	25	39	3
14VV1A0351	RT4103L	Simulation Lab	22	44	2
14VV1A0352	RT41031	Automobile Engineering	20	37	3
14VV1A0352	RT41032	CAD/CAM	23	42	3
14VV1A0352	RT41033	Finite Element Methods	20	41	3
14VV1A0352	RT41034	Unconventional Machining Processes	27	52	3
14VV1A0352	RT41035	Micro Electro Mechanical Systems	26	45	3
14VV1A0352	RT41039	Automation in Manufacturing	26	51	3
14VV1A0352	RT4103L	Simulation Lab	22	45	2
14VV1A0353	RT41031	Automobile Engineering	16	40	3
14VV1A0353	RT41032	CAD/CAM	23	35	3
14VV1A0353	RT41033	Finite Element Methods	24	32	3
14VV1A0353	RT41034	Unconventional Machining Processes	24	30	3
14VV1A0353	RT41035	Micro Electro Mechanical Systems	25	41	3
14VV1A0353	RT41039	Automation in Manufacturing	19	55	3
14VV1A0353	RT4103L	Simulation Lab	21	47	2
14VV1A0354	RT41031	Automobile Engineering	21	49	3
14VV1A0354	RT41032	CAD/CAM	26	43	3
14VV1A0354	RT41033	Finite Element Methods	28	47	3
14VV1A0354	RT41034	Unconventional Machining Processes	24	52	3
14VV1A0354	RT41035	Micro Electro Mechanical Systems	24	51	3
14VV1A0354	RT41039	Automation in Manufacturing	26	46	3
14VV1A0354	RT4103L	Simulation Lab	21	47	2
14VV1A0355	RT41031	Automobile Engineering	24	47	3
14VV1A0355	RT41032	CAD/CAM	27	48	3
14VV1A0355	RT41033	Finite Element Methods	29	50	3
14VV1A0355	RT41034	Unconventional Machining Processes	26	47	3
14VV1A0355	RT41035	Micro Electro Mechanical Systems	25	49	3
14VV1A0355	RT41039	Automation in Manufacturing	26	57	3
14VV1A0355	RT4103L	Simulation Lab	23	48	2
14VV1A0357	RT41031	Automobile Engineering	20	36	3
14VV1A0357	RT41032	CAD/CAM	29	43	3
14VV1A0357	RT41033	Finite Element Methods	20	34	3
14VV1A0357	RT41034	Unconventional Machining Processes	24	40	3
14VV1A0357	RT41035	Micro Electro Mechanical Systems	18	44	3
14VV1A0357	RT41039	Automation in Manufacturing	24	33	3
14VV1A0357	RT4103L	Simulation Lab	20	42	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0358	RT41031	Automobile Engineering	19	51	3
14VV1A0358	RT41032	CAD/CAM	23	47	3
14VV1A0358	RT41033	Finite Element Methods	23	39	3
14VV1A0358	RT41034	Unconventional Machining Processes	26	44	3
14VV1A0358	RT41035	Micro Electro Mechanical Systems	25	49	3
14VV1A0358	RT41039	Automation in Manufacturing	23	43	3
14VV1A0358	RT4103L	Simulation Lab	22	46	2
14VV1A0401	RT41041	VLSI Design	26	41	3
14VV1A0401	RT41042	Computer Networks	26	27	3
14VV1A0401	RT41043	Digital Image Processing	25	44	3
14VV1A0401	RT41044	Computer Architecture & Organization	28	33	3
14VV1A0401	RT41048	Radar Systems	23	49	3
14VV1A0401	RT4104A	Optical Communication	25	51	3
14VV1A0401	RT4104L	VLSI Design Lab	22	44	2
14VV1A0401	RT4104M	Microwave Engineering Lab	22	44	2
14VV1A0402	RT41041	VLSI Design	23	35	3
14VV1A0402	RT41042	Computer Networks	21	30	3
14VV1A0402	RT41043	Digital Image Processing	27	24	3
14VV1A0402	RT41044	Computer Architecture & Organization	23	31	3
14VV1A0402	RT41048	Radar Systems	17	44	3
14VV1A0402	RT4104A	Optical Communication	20	46	3
14VV1A0402	RT4104L	VLSI Design Lab	23	43	2
14VV1A0402	RT4104M	Microwave Engineering Lab	24	45	2
14VV1A0403	RT41041	VLSI Design	26	48	3
14VV1A0403	RT41042	Computer Networks	24	27	3
14VV1A0403	RT41043	Digital Image Processing	22	41	3
14VV1A0403	RT41044	Computer Architecture & Organization	26	36	3
14VV1A0403	RT41048	Radar Systems	21	40	3
14VV1A0403	RT4104A	Optical Communication	25	50	3
14VV1A0403	RT4104L	VLSI Design Lab	23	44	2
14VV1A0403	RT4104M	Microwave Engineering Lab	23	45	2
14VV1A0404	RT41041	VLSI Design	25	49	3
14VV1A0404	RT41042	Computer Networks	22	35	3
14VV1A0404	RT41043	Digital Image Processing	23	34	3
14VV1A0404	RT41044	Computer Architecture & Organization	27	28	3
14VV1A0404	RT41048	Radar Systems	22	43	3
14VV1A0404	RT4104A	Optical Communication	22	48	3
14VV1A0404	RT4104L	VLSI Design Lab	22	48	2
14VV1A0404	RT4104M	Microwave Engineering Lab	22	43	2
14VV1A0405	RT41041	VLSI Design	28	32	3
14VV1A0405	RT41042	Computer Networks	25	36	3
14VV1A0405	RT41043	Digital Image Processing	22	36	3
14VV1A0405	RT41044	Computer Architecture & Organization	27	42	3
14VV1A0405	RT41048	Radar Systems	21	42	3
14VV1A0405	RT4104A	Optical Communication	26	46	3
14VV1A0405	RT4104L	VLSI Design Lab	24	46	2
14VV1A0405	RT4104M	Microwave Engineering Lab	24	46	2
14VV1A0406	RT41041	VLSI Design	25	48	3
14VV1A0406	RT41042	Computer Networks	20	29	3
14VV1A0406	RT41043	Digital Image Processing	22	31	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0406	RT41044	Computer Architecture & Organization	27	27	3
14VV1A0406	RT41048	Radar Systems	19	50	3
14VV1A0406	RT4104A	Optical Communication	21	51	3
14VV1A0406	RT4104L	VLSI Design Lab	24	45	2
14VV1A0406	RT4104M	Microwave Engineering Lab	22	42	2
14VV1A0407	RT41041	VLSI Design	25	29	3
14VV1A0407	RT41042	Computer Networks	20	24	3
14VV1A0407	RT41043	Digital Image Processing	24	24	3
14VV1A0407	RT41044	Computer Architecture & Organization	25	24	3
14VV1A0407	RT41048	Radar Systems	21	53	3
14VV1A0407	RT4104A	Optical Communication	22	49	3
14VV1A0407	RT4104L	VLSI Design Lab	24	48	2
14VV1A0407	RT4104M	Microwave Engineering Lab	23	46	2
14VV1A0408	RT41041	VLSI Design	23	30	3
14VV1A0408	RT41042	Computer Networks	22	36	3
14VV1A0408	RT41043	Digital Image Processing	20	32	3
14VV1A0408	RT41044	Computer Architecture & Organization	26	30	3
14VV1A0408	RT41048	Radar Systems	22	37	3
14VV1A0408	RT4104A	Optical Communication	22	43	3
14VV1A0408	RT4104L	VLSI Design Lab	22	46	2
14VV1A0408	RT4104M	Microwave Engineering Lab	22	38	2
14VV1A0409	RT41041	VLSI Design	18	29	3
14VV1A0409	RT41042	Computer Networks	15	25	3
14VV1A0409	RT41043	Digital Image Processing	19	24	3
14VV1A0409	RT41044	Computer Architecture & Organization	23	26	3
14VV1A0409	RT41048	Radar Systems	17	44	3
14VV1A0409	RT4104A	Optical Communication	21	41	3
14VV1A0409	RT4104L	VLSI Design Lab	24	44	2
14VV1A0409	RT4104M	Microwave Engineering Lab	22	40	2
14VV1A0410	RT41041	VLSI Design	24	52	3
14VV1A0410	RT41042	Computer Networks	20	24	3
14VV1A0410	RT41043	Digital Image Processing	20	42	3
14VV1A0410	RT41044	Computer Architecture & Organization	27	25	3
14VV1A0410	RT41048	Radar Systems	20	52	3
14VV1A0410	RT4104A	Optical Communication	22	53	3
14VV1A0410	RT4104L	VLSI Design Lab	24	45	2
14VV1A0410	RT4104M	Microwave Engineering Lab	22	45	2
14VV1A0411	RT41041	VLSI Design	26	36	3
14VV1A0411	RT41042	Computer Networks	20	25	3
14VV1A0411	RT41043	Digital Image Processing	23	27	3
14VV1A0411	RT41044	Computer Architecture & Organization	23	24	3
14VV1A0411	RT41048	Radar Systems	22	41	3
14VV1A0411	RT4104A	Optical Communication	23	45	3
14VV1A0411	RT4104L	VLSI Design Lab	22	43	2
14VV1A0411	RT4104M	Microwave Engineering Lab	22	43	2
14VV1A0412	RT41041	VLSI Design	26	51	3
14VV1A0412	RT41042	Computer Networks	25	33	3
14VV1A0412	RT41043	Digital Image Processing	28	46	3
14VV1A0412	RT41044	Computer Architecture & Organization	26	35	3
14VV1A0412	RT41048	Radar Systems	23	51	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0412	RT4104A	Optical Communication	27	55	3
14VV1A0412	RT4104L	VLSI Design Lab	24	46	2
14VV1A0412	RT4104M	Microwave Engineering Lab	24	48	2
14VV1A0413	RT41041	VLSI Design	23	33	3
14VV1A0413	RT41042	Computer Networks	20	31	3
14VV1A0413	RT41043	Digital Image Processing	20	29	3
14VV1A0413	RT41044	Computer Architecture & Organization	23	30	3
14VV1A0413	RT41048	Radar Systems	20	45	3
14VV1A0413	RT4104A	Optical Communication	25	52	3
14VV1A0413	RT4104L	VLSI Design Lab	23	44	2
14VV1A0413	RT4104M	Microwave Engineering Lab	23	45	2
14VV1A0414	RT41041	VLSI Design	21	27	3
14VV1A0414	RT41042	Computer Networks	24	28	3
14VV1A0414	RT41043	Digital Image Processing	24	33	3
14VV1A0414	RT41044	Computer Architecture & Organization	26	24	3
14VV1A0414	RT41048	Radar Systems	26	44	3
14VV1A0414	RT4104A	Optical Communication	24	46	3
14VV1A0414	RT4104L	VLSI Design Lab	24	43	2
14VV1A0414	RT4104M	Microwave Engineering Lab	23	42	2
14VV1A0415	RT41041	VLSI Design	24	26	3
14VV1A0415	RT41042	Computer Networks	20	15	0
14VV1A0415	RT41043	Digital Image Processing	20	25	3
14VV1A0415	RT41044	Computer Architecture & Organization	20	24	3
14VV1A0415	RT41048	Radar Systems	17	35	3
14VV1A0415	RT4104A	Optical Communication	22	40	3
14VV1A0415	RT4104L	VLSI Design Lab	22	46	2
14VV1A0415	RT4104M	Microwave Engineering Lab	22	41	2
14VV1A0416	RT41041	VLSI Design	20	38	3
14VV1A0416	RT41042	Computer Networks	20	27	3
14VV1A0416	RT41043	Digital Image Processing	26	28	3
14VV1A0416	RT41044	Computer Architecture & Organization	23	31	3
14VV1A0416	RT41048	Radar Systems	21	35	3
14VV1A0416	RT4104A	Optical Communication	22	49	3
14VV1A0416	RT4104L	VLSI Design Lab	21	42	2
14VV1A0416	RT4104M	Microwave Engineering Lab	23	43	2
14VV1A0417	RT41041	VLSI Design	18	26	3
14VV1A0417	RT41042	Computer Networks	14	13	0
14VV1A0417	RT41043	Digital Image Processing	18	28	3
14VV1A0417	RT41044	Computer Architecture & Organization	23	17	0
14VV1A0417	RT41048	Radar Systems	17	26	3
14VV1A0417	RT4104A	Optical Communication	20	32	3
14VV1A0417	RT4104L	VLSI Design Lab	21	44	2
14VV1A0417	RT4104M	Microwave Engineering Lab	22	40	2
14VV1A0418	RT41041	VLSI Design	25	40	3
14VV1A0418	RT41042	Computer Networks	24	26	3
14VV1A0418	RT41043	Digital Image Processing	27	38	3
14VV1A0418	RT41044	Computer Architecture & Organization	25	29	3
14VV1A0418	RT41048	Radar Systems	24	45	3
14VV1A0418	RT4104A	Optical Communication	23	48	3
14VV1A0418	RT4104L	VLSI Design Lab	22	47	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0418	RT4104M	Microwave Engineering Lab	25	46	2
14VV1A0419	RT41041	VLSI Design	29	47	3
14VV1A0419	RT41042	Computer Networks	24	29	3
14VV1A0419	RT41043	Digital Image Processing	27	38	3
14VV1A0419	RT41044	Computer Architecture & Organization	25	28	3
14VV1A0419	RT41048	Radar Systems	24	44	3
14VV1A0419	RT4104A	Optical Communication	26	50	3
14VV1A0419	RT4104L	VLSI Design Lab	23	46	2
14VV1A0419	RT4104M	Microwave Engineering Lab	25	47	2
14VV1A0420	RT41041	VLSI Design	25	42	3
14VV1A0420	RT41042	Computer Networks	21	30	3
14VV1A0420	RT41043	Digital Image Processing	23	24	3
14VV1A0420	RT41044	Computer Architecture & Organization	24	29	3
14VV1A0420	RT41048	Radar Systems	25	46	3
14VV1A0420	RT4104A	Optical Communication	25	37	3
14VV1A0420	RT4104L	VLSI Design Lab	23	44	2
14VV1A0420	RT4104M	Microwave Engineering Lab	23	45	2
14VV1A0421	RT41041	VLSI Design	28	48	3
14VV1A0421	RT41042	Computer Networks	25	35	3
14VV1A0421	RT41043	Digital Image Processing	25	45	3
14VV1A0421	RT41044	Computer Architecture & Organization	25	39	3
14VV1A0421	RT41048	Radar Systems	22	69	3
14VV1A0421	RT4104A	Optical Communication	27	51	3
14VV1A0421	RT4104L	VLSI Design Lab	23	45	2
14VV1A0421	RT4104M	Microwave Engineering Lab	24	47	2
14VV1A0422	RT41041	VLSI Design	24	39	3
14VV1A0422	RT41042	Computer Networks	24	34	3
14VV1A0422	RT41043	Digital Image Processing	26	30	3
14VV1A0422	RT41044	Computer Architecture & Organization	26	27	3
14VV1A0422	RT41048	Radar Systems	24	42	3
14VV1A0422	RT4104A	Optical Communication	23	48	3
14VV1A0422	RT4104L	VLSI Design Lab	23	44	2
14VV1A0422	RT4104M	Microwave Engineering Lab	23	44	2
14VV1A0423	RT41041	VLSI Design	23	35	3
14VV1A0423	RT41042	Computer Networks	21	26	3
14VV1A0423	RT41043	Digital Image Processing	25	39	3
14VV1A0423	RT41044	Computer Architecture & Organization	27	29	3
14VV1A0423	RT41048	Radar Systems	22	48	3
14VV1A0423	RT4104A	Optical Communication	20	53	3
14VV1A0423	RT4104L	VLSI Design Lab	22	44	2
14VV1A0423	RT4104M	Microwave Engineering Lab	24	46	2
14VV1A0424	RT41041	VLSI Design	26	50	3
14VV1A0424	RT41042	Computer Networks	27	34	3
14VV1A0424	RT41043	Digital Image Processing	29	51	3
14VV1A0424	RT41044	Computer Architecture & Organization	27	31	3
14VV1A0424	RT41048	Radar Systems	27	68	3
14VV1A0424	RT4104A	Optical Communication	25	58	3
14VV1A0424	RT4104L	VLSI Design Lab	24	46	2
14VV1A0424	RT4104M	Microwave Engineering Lab	25	48	2
14VV1A0425	RT41041	VLSI Design	23	45	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0425	RT41042	Computer Networks	20	26	3
14VV1A0425	RT41043	Digital Image Processing	23	32	3
14VV1A0425	RT41044	Computer Architecture & Organization	25	33	3
14VV1A0425	RT41048	Radar Systems	18	49	3
14VV1A0425	RT4104A	Optical Communication	22	49	3
14VV1A0425	RT4104L	VLSI Design Lab	22	45	2
14VV1A0425	RT4104M	Microwave Engineering Lab	22	42	2
14VV1A0426	RT41041	VLSI Design	22	38	3
14VV1A0426	RT41042	Computer Networks	21	33	3
14VV1A0426	RT41043	Digital Image Processing	24	29	3
14VV1A0426	RT41044	Computer Architecture & Organization	28	30	3
14VV1A0426	RT41048	Radar Systems	21	54	3
14VV1A0426	RT4104A	Optical Communication	24	43	3
14VV1A0426	RT4104L	VLSI Design Lab	23	45	2
14VV1A0426	RT4104M	Microwave Engineering Lab	24	46	2
14VV1A0427	RT41041	VLSI Design	23	47	3
14VV1A0427	RT41042	Computer Networks	21	27	3
14VV1A0427	RT41043	Digital Image Processing	20	31	3
14VV1A0427	RT41044	Computer Architecture & Organization	25	40	3
14VV1A0427	RT41048	Radar Systems	18	56	3
14VV1A0427	RT4104A	Optical Communication	25	49	3
14VV1A0427	RT4104L	VLSI Design Lab	24	45	2
14VV1A0427	RT4104M	Microwave Engineering Lab	24	46	2
14VV1A0428	RT41041	VLSI Design	19	17	0
14VV1A0428	RT41042	Computer Networks	17	25	3
14VV1A0428	RT41043	Digital Image Processing	17	11	0
14VV1A0428	RT41044	Computer Architecture & Organization	21	27	3
14VV1A0428	RT41048	Radar Systems	15	35	3
14VV1A0428	RT4104A	Optical Communication	23	28	3
14VV1A0428	RT4104L	VLSI Design Lab	22	43	2
14VV1A0428	RT4104M	Microwave Engineering Lab	22	40	2
14VV1A0429	RT41041	VLSI Design	25	55	3
14VV1A0429	RT41042	Computer Networks	23	26	3
14VV1A0429	RT41043	Digital Image Processing	28	42	3
14VV1A0429	RT41044	Computer Architecture & Organization	27	28	3
14VV1A0429	RT41048	Radar Systems	22	56	3
14VV1A0429	RT4104A	Optical Communication	23	54	3
14VV1A0429	RT4104L	VLSI Design Lab	24	46	2
14VV1A0429	RT4104M	Microwave Engineering Lab	23	46	2
14VV1A0430	RT41041	VLSI Design	25	39	3
14VV1A0430	RT41042	Computer Networks	27	26	3
14VV1A0430	RT41043	Digital Image Processing	25	37	3
14VV1A0430	RT41044	Computer Architecture & Organization	29	31	3
14VV1A0430	RT41048	Radar Systems	24	50	3
14VV1A0430	RT4104A	Optical Communication	25	52	3
14VV1A0430	RT4104L	VLSI Design Lab	23	45	2
14VV1A0430	RT4104M	Microwave Engineering Lab	23	47	2
14VV1A0431	RT41041	VLSI Design	21	46	3
14VV1A0431	RT41042	Computer Networks	20	32	3
14VV1A0431	RT41043	Digital Image Processing	25	30	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0431	RT41044	Computer Architecture & Organization	28	29	3
14VV1A0431	RT41048	Radar Systems	21	53	3
14VV1A0431	RT4104A	Optical Communication	25	47	3
14VV1A0431	RT4104L	VLSI Design Lab	23	45	2
14VV1A0431	RT4104M	Microwave Engineering Lab	23	45	2
14VV1A0432	RT41041	VLSI Design	24	31	3
14VV1A0432	RT41042	Computer Networks	20	43	3
14VV1A0432	RT41043	Digital Image Processing	26	24	3
14VV1A0432	RT41044	Computer Architecture & Organization	29	40	3
14VV1A0432	RT41048	Radar Systems	22	53	3
14VV1A0432	RT4104A	Optical Communication	23	49	3
14VV1A0432	RT4104L	VLSI Design Lab	24	47	2
14VV1A0432	RT4104M	Microwave Engineering Lab	24	46	2
14VV1A0433	RT41041	VLSI Design	28	50	3
14VV1A0433	RT41042	Computer Networks	22	29	3
14VV1A0433	RT41043	Digital Image Processing	29	28	3
14VV1A0433	RT41044	Computer Architecture & Organization	28	30	3
14VV1A0433	RT41048	Radar Systems	25	52	3
14VV1A0433	RT4104A	Optical Communication	24	50	3
14VV1A0433	RT4104L	VLSI Design Lab	24	48	2
14VV1A0433	RT4104M	Microwave Engineering Lab	24	44	2
14VV1A0435	RT41041	VLSI Design	25	24	3
14VV1A0435	RT41042	Computer Networks	20	24	3
14VV1A0435	RT41043	Digital Image Processing	16	17	0
14VV1A0435	RT41044	Computer Architecture & Organization	23	13	0
14VV1A0435	RT41048	Radar Systems	19	32	3
14VV1A0435	RT4104A	Optical Communication	22	38	3
14VV1A0435	RT4104L	VLSI Design Lab	20	43	2
14VV1A0435	RT4104M	Microwave Engineering Lab	23	45	2
14VV1A0436	RT41041	VLSI Design	20	48	3
14VV1A0436	RT41042	Computer Networks	17	26	3
14VV1A0436	RT41043	Digital Image Processing	18	37	3
14VV1A0436	RT41044	Computer Architecture & Organization	24	29	3
14VV1A0436	RT41048	Radar Systems	20	42	3
14VV1A0436	RT4104A	Optical Communication	21	41	3
14VV1A0436	RT4104L	VLSI Design Lab	21	43	2
14VV1A0436	RT4104M	Microwave Engineering Lab	23	44	2
14VV1A0437	RT41041	VLSI Design	27	48	3
14VV1A0437	RT41042	Computer Networks	29	30	3
14VV1A0437	RT41043	Digital Image Processing	29	50	3
14VV1A0437	RT41044	Computer Architecture & Organization	29	30	3
14VV1A0437	RT41048	Radar Systems	27	53	3
14VV1A0437	RT4104A	Optical Communication	26	51	3
14VV1A0437	RT4104L	VLSI Design Lab	24	47	2
14VV1A0437	RT4104M	Microwave Engineering Lab	24	47	2
14VV1A0438	RT41041	VLSI Design	28	52	3
14VV1A0438	RT41042	Computer Networks	24	30	3
14VV1A0438	RT41043	Digital Image Processing	29	35	3
14VV1A0438	RT41044	Computer Architecture & Organization	27	29	3
14VV1A0438	RT41048	Radar Systems	24	52	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0438	RT4104A	Optical Communication	27	54	3
14VV1A0438	RT4104L	VLSI Design Lab	24	44	2
14VV1A0438	RT4104M	Microwave Engineering Lab	24	45	2
14VV1A0439	RT41041	VLSI Design	22	27	3
14VV1A0439	RT41042	Computer Networks	20	29	3
14VV1A0439	RT41043	Digital Image Processing	21	29	3
14VV1A0439	RT41044	Computer Architecture & Organization	27	16	0
14VV1A0439	RT41048	Radar Systems	21	37	3
14VV1A0439	RT4104A	Optical Communication	22	38	3
14VV1A0439	RT4104L	VLSI Design Lab	24	45	2
14VV1A0439	RT4104M	Microwave Engineering Lab	23	45	2
14VV1A0441	RT41041	VLSI Design	18	29	3
14VV1A0441	RT41042	Computer Networks	20	27	3
14VV1A0441	RT41043	Digital Image Processing	22	24	3
14VV1A0441	RT41044	Computer Architecture & Organization	17	24	3
14VV1A0441	RT41048	Radar Systems	15	42	3
14VV1A0441	RT4104A	Optical Communication	22	43	3
14VV1A0441	RT4104L	VLSI Design Lab	21	44	2
14VV1A0441	RT4104M	Microwave Engineering Lab	22	41	2
14VV1A0442	RT41041	VLSI Design	20	32	3
14VV1A0442	RT41042	Computer Networks	20	24	3
14VV1A0442	RT41043	Digital Image Processing	23	29	3
14VV1A0442	RT41044	Computer Architecture & Organization	24	30	3
14VV1A0442	RT41048	Radar Systems	19	41	3
14VV1A0442	RT4104A	Optical Communication	21	48	3
14VV1A0442	RT4104L	VLSI Design Lab	22	44	2
14VV1A0442	RT4104M	Microwave Engineering Lab	22	42	2
14VV1A0443	RT41041	VLSI Design	25	43	3
14VV1A0443	RT41042	Computer Networks	20	27	3
14VV1A0443	RT41043	Digital Image Processing	25	38	3
14VV1A0443	RT41044	Computer Architecture & Organization	25	30	3
14VV1A0443	RT41048	Radar Systems	23	46	3
14VV1A0443	RT4104A	Optical Communication	23	44	3
14VV1A0443	RT4104L	VLSI Design Lab	23	44	2
14VV1A0443	RT4104M	Microwave Engineering Lab	23	44	2
14VV1A0444	RT41041	VLSI Design	26	24	3
14VV1A0444	RT41042	Computer Networks	16	15	0
14VV1A0444	RT41043	Digital Image Processing	22	33	3
14VV1A0444	RT41044	Computer Architecture & Organization	26	25	3
14VV1A0444	RT41048	Radar Systems	18	46	3
14VV1A0444	RT4104A	Optical Communication	24	53	3
14VV1A0444	RT4104L	VLSI Design Lab	23	45	2
14VV1A0444	RT4104M	Microwave Engineering Lab	23	43	2
14VV1A0445	RT41041	VLSI Design	25	34	3
14VV1A0445	RT41042	Computer Networks	22	27	3
14VV1A0445	RT41043	Digital Image Processing	23	30	3
14VV1A0445	RT41044	Computer Architecture & Organization	27	31	3
14VV1A0445	RT41048	Radar Systems	24	54	3
14VV1A0445	RT4104A	Optical Communication	24	51	3
14VV1A0445	RT4104L	VLSI Design Lab	23	48	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0445	RT4104M	Microwave Engineering Lab	24	47	2
14VV1A0446	RT41041	VLSI Design	26	46	3
14VV1A0446	RT41042	Computer Networks	24	42	3
14VV1A0446	RT41043	Digital Image Processing	28	42	3
14VV1A0446	RT41044	Computer Architecture & Organization	27	31	3
14VV1A0446	RT41048	Radar Systems	24	56	3
14VV1A0446	RT4104A	Optical Communication	23	52	3
14VV1A0446	RT4104L	VLSI Design Lab	23	48	2
14VV1A0446	RT4104M	Microwave Engineering Lab	23	45	2
14VV1A0449	RT41041	VLSI Design	22	46	3
14VV1A0449	RT41042	Computer Networks	20	29	3
14VV1A0449	RT41043	Digital Image Processing	18	29	3
14VV1A0449	RT41044	Computer Architecture & Organization	25	24	3
14VV1A0449	RT41048	Radar Systems	18	38	3
14VV1A0449	RT4104A	Optical Communication	20	43	3
14VV1A0449	RT4104L	VLSI Design Lab	22	44	2
14VV1A0449	RT4104M	Microwave Engineering Lab	23	44	2
14VV1A0450	RT41041	VLSI Design	28	47	3
14VV1A0450	RT41042	Computer Networks	21	27	3
14VV1A0450	RT41043	Digital Image Processing	24	41	3
14VV1A0450	RT41044	Computer Architecture & Organization	26	31	3
14VV1A0450	RT41048	Radar Systems	22	46	3
14VV1A0450	RT4104A	Optical Communication	27	46	3
14VV1A0450	RT4104L	VLSI Design Lab	23	45	2
14VV1A0450	RT4104M	Microwave Engineering Lab	24	46	2
14VV1A0451	RT41041	VLSI Design	26	36	3
14VV1A0451	RT41042	Computer Networks	20	28	3
14VV1A0451	RT41043	Digital Image Processing	19	24	3
14VV1A0451	RT41044	Computer Architecture & Organization	25	27	3
14VV1A0451	RT41048	Radar Systems	20	46	3
14VV1A0451	RT4104A	Optical Communication	21	39	3
14VV1A0451	RT4104L	VLSI Design Lab	23	45	2
14VV1A0451	RT4104M	Microwave Engineering Lab	23	44	2
14VV1A0452	RT41041	VLSI Design	21	32	3
14VV1A0452	RT41042	Computer Networks	17	26	3
14VV1A0452	RT41043	Digital Image Processing	19	24	3
14VV1A0452	RT41044	Computer Architecture & Organization	21	24	3
14VV1A0452	RT41048	Radar Systems	22	46	3
14VV1A0452	RT4104A	Optical Communication	20	35	3
14VV1A0452	RT4104L	VLSI Design Lab	20	43	2
14VV1A0452	RT4104M	Microwave Engineering Lab	23	42	2
14VV1A0453	RT41041	VLSI Design	25	39	3
14VV1A0453	RT41042	Computer Networks	24	25	3
14VV1A0453	RT41043	Digital Image Processing	23	48	3
14VV1A0453	RT41044	Computer Architecture & Organization	26	42	3
14VV1A0453	RT41048	Radar Systems	20	52	3
14VV1A0453	RT4104A	Optical Communication	21	47	3
14VV1A0453	RT4104L	VLSI Design Lab	24	44	2
14VV1A0453	RT4104M	Microwave Engineering Lab	22	44	2
14VV1A0454	RT41041	VLSI Design	26	35	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0454	RT41042	Computer Networks	19	38	3
14VV1A0454	RT41043	Digital Image Processing	22	39	3
14VV1A0454	RT41044	Computer Architecture & Organization	27	24	3
14VV1A0454	RT41048	Radar Systems	17	49	3
14VV1A0454	RT4104A	Optical Communication	22	43	3
14VV1A0454	RT4104L	VLSI Design Lab	24	45	2
14VV1A0454	RT4104M	Microwave Engineering Lab	22	40	2
14VV1A0455	RT41041	VLSI Design	24	50	3
14VV1A0455	RT41042	Computer Networks	23	37	3
14VV1A0455	RT41043	Digital Image Processing	20	45	3
14VV1A0455	RT41044	Computer Architecture & Organization	28	40	3
14VV1A0455	RT41048	Radar Systems	20	52	3
14VV1A0455	RT4104A	Optical Communication	22	51	3
14VV1A0455	RT4104L	VLSI Design Lab	24	48	2
14VV1A0455	RT4104M	Microwave Engineering Lab	23	46	2
14VV1A0456	RT41041	VLSI Design	21	37	3
14VV1A0456	RT41042	Computer Networks	20	28	3
14VV1A0456	RT41043	Digital Image Processing	26	42	3
14VV1A0456	RT41044	Computer Architecture & Organization	26	25	3
14VV1A0456	RT41048	Radar Systems	18	53	3
14VV1A0456	RT4104A	Optical Communication	23	49	3
14VV1A0456	RT4104L	VLSI Design Lab	22	45	2
14VV1A0456	RT4104M	Microwave Engineering Lab	23	43	2
14VV1A0457	RT41041	VLSI Design	19	8	0
14VV1A0457	RT41042	Computer Networks	16	8	0
14VV1A0457	RT41043	Digital Image Processing	15	5	0
14VV1A0457	RT41044	Computer Architecture & Organization	23	13	0
14VV1A0457	RT41048	Radar Systems	14	26	3
14VV1A0457	RT4104A	Optical Communication	17	37	3
14VV1A0457	RT4104L	VLSI Design Lab	13	25	2
14VV1A0457	RT4104M	Microwave Engineering Lab	22	42	2
14VV1A0501	RT41051	Cryptography and Network Security	18	35	3
14VV1A0501	RT41052	UML & Design Patterns	23	49	3
14VV1A0501	RT41053	Mobile Computing	21	47	3
14VV1A0501	RT41057	Artificial Intelligence	24	35	3
14VV1A0501	RT4105B	Hadoop and Big Data	15	64	3
14VV1A0501	RT4105L	UML & Design Patterns Lab	24	46	2
14VV1A0501	RT4105M	Mobile Application Development Lab	23	46	2
14VV1A0501	RT4105N	Software Testing Lab	23	47	2
14VV1A0501	RT4105O	Hadoop & Big Data Lab	14	27	2
14VV1A0502	RT41051	Cryptography and Network Security	10	44	3
14VV1A0502	RT41052	UML & Design Patterns	22	45	3
14VV1A0502	RT41053	Mobile Computing	21	60	3
14VV1A0502	RT41057	Artificial Intelligence	29	46	3
14VV1A0502	RT4105B	Hadoop and Big Data	14	52	3
14VV1A0502	RT4105L	UML & Design Patterns Lab	21	33	2
14VV1A0502	RT4105M	Mobile Application Development Lab	18	45	2
14VV1A0502	RT4105N	Software Testing Lab	22	46	2
14VV1A0502	RT4105O	Hadoop & Big Data Lab	13	22	2
14VV1A0503	RT41051	Cryptography and Network Security	15	47	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0503	RT41052	UML & Design Patterns	23	35	3
14VV1A0503	RT41053	Mobile Computing	22	44	3
14VV1A0503	RT41057	Artificial Intelligence	27	44	3
14VV1A0503	RT4105B	Hadoop and Big Data	16	62	3
14VV1A0503	RT4105L	UML & Design Patterns Lab	21	37	2
14VV1A0503	RT4105M	Mobile Application Development Lab	24	45	2
14VV1A0503	RT4105N	Software Testing Lab	23	45	2
14VV1A0503	RT4105O	Hadoop & Big Data Lab	12	24	2
14VV1A0504	RT41051	Cryptography and Network Security	16	53	3
14VV1A0504	RT41052	UML & Design Patterns	25	52	3
14VV1A0504	RT41053	Mobile Computing	21	57	3
14VV1A0504	RT41057	Artificial Intelligence	29	45	3
14VV1A0504	RT4105B	Hadoop and Big Data	15	64	3
14VV1A0504	RT4105L	UML & Design Patterns Lab	24	46	2
14VV1A0504	RT4105M	Mobile Application Development Lab	24	45	2
14VV1A0504	RT4105N	Software Testing Lab	24	47	2
14VV1A0504	RT4105O	Hadoop & Big Data Lab	16	40	2
14VV1A0505	RT41051	Cryptography and Network Security	22	55	3
14VV1A0505	RT41052	UML & Design Patterns	25	44	3
14VV1A0505	RT41053	Mobile Computing	26	57	3
14VV1A0505	RT41057	Artificial Intelligence	27	41	3
14VV1A0505	RT4105B	Hadoop and Big Data	23	46	3
14VV1A0505	RT4105L	UML & Design Patterns Lab	23	47	2
14VV1A0505	RT4105M	Mobile Application Development Lab	24	47	2
14VV1A0505	RT4105N	Software Testing Lab	24	45	2
14VV1A0505	RT4105O	Hadoop & Big Data Lab	23	48	2
14VV1A0506	RT41051	Cryptography and Network Security	21	46	3
14VV1A0506	RT41052	UML & Design Patterns	23	49	3
14VV1A0506	RT41053	Mobile Computing	20	52	3
14VV1A0506	RT41057	Artificial Intelligence	23	45	3
14VV1A0506	RT4105B	Hadoop and Big Data	17	49	3
14VV1A0506	RT4105L	UML & Design Patterns Lab	22	41	2
14VV1A0506	RT4105M	Mobile Application Development Lab	24	44	2
14VV1A0506	RT4105N	Software Testing Lab	24	45	2
14VV1A0506	RT4105O	Hadoop & Big Data Lab	16	37	2
14VV1A0507	RT41051	Cryptography and Network Security	20	53	3
14VV1A0507	RT41052	UML & Design Patterns	28	55	3
14VV1A0507	RT41053	Mobile Computing	23	54	3
14VV1A0507	RT41057	Artificial Intelligence	29	29	3
14VV1A0507	RT4105B	Hadoop and Big Data	21	41	3
14VV1A0507	RT4105L	UML & Design Patterns Lab	21	36	2
14VV1A0507	RT4105M	Mobile Application Development Lab	24	48	2
14VV1A0507	RT4105N	Software Testing Lab	24	47	2
14VV1A0507	RT4105O	Hadoop & Big Data Lab	13	24	2
14VV1A0508	RT41051	Cryptography and Network Security	18	49	3
14VV1A0508	RT41052	UML & Design Patterns	28	64	3
14VV1A0508	RT41053	Mobile Computing	27	63	3
14VV1A0508	RT41057	Artificial Intelligence	28	56	3
14VV1A0508	RT4105B	Hadoop and Big Data	18	66	3
14VV1A0508	RT4105L	UML & Design Patterns Lab	22	45	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0508	RT4105M	Mobile Application Development Lab	24	45	2
14VV1A0508	RT4105N	Software Testing Lab	23	46	2
14VV1A0508	RT4105O	Hadoop & Big Data Lab	20	45	2
14VV1A0509	RT41051	Cryptography and Network Security	12	42	3
14VV1A0509	RT41052	UML & Design Patterns	26	48	3
14VV1A0509	RT41053	Mobile Computing	22	51	3
14VV1A0509	RT41057	Artificial Intelligence	27	35	3
14VV1A0509	RT4105B	Hadoop and Big Data	17	41	3
14VV1A0509	RT4105L	UML & Design Patterns Lab	22	44	2
14VV1A0509	RT4105M	Mobile Application Development Lab	22	47	2
14VV1A0509	RT4105N	Software Testing Lab	22	45	2
14VV1A0509	RT4105O	Hadoop & Big Data Lab	14	21	2
14VV1A0510	RT41051	Cryptography and Network Security	15	48	3
14VV1A0510	RT41052	UML & Design Patterns	26	51	3
14VV1A0510	RT41053	Mobile Computing	24	59	3
14VV1A0510	RT41057	Artificial Intelligence	27	40	3
14VV1A0510	RT4105B	Hadoop and Big Data	24	31	3
14VV1A0510	RT4105L	UML & Design Patterns Lab	22	45	2
14VV1A0510	RT4105M	Mobile Application Development Lab	23	47	2
14VV1A0510	RT4105N	Software Testing Lab	23	46	2
14VV1A0510	RT4105O	Hadoop & Big Data Lab	17	32	2
14VV1A0511	RT41051	Cryptography and Network Security	12	-1	0
14VV1A0511	RT41052	UML & Design Patterns	23	-1	0
14VV1A0511	RT41053	Mobile Computing	16	-1	0
14VV1A0511	RT41057	Artificial Intelligence	19	-1	0
14VV1A0511	RT4105B	Hadoop and Big Data	20	-1	0
14VV1A0511	RT4105L	UML & Design Patterns Lab	18	-1	0
14VV1A0511	RT4105M	Mobile Application Development Lab	18	-1	0
14VV1A0511	RT4105N	Software Testing Lab	20	-1	0
14VV1A0511	RT4105O	Hadoop & Big Data Lab	16	-1	0
14VV1A0512	RT41051	Cryptography and Network Security	14	37	3
14VV1A0512	RT41052	UML & Design Patterns	26	49	3
14VV1A0512	RT41053	Mobile Computing	22	46	3
14VV1A0512	RT41057	Artificial Intelligence	25	32	3
14VV1A0512	RT4105B	Hadoop and Big Data	16	29	3
14VV1A0512	RT4105L	UML & Design Patterns Lab	21	38	2
14VV1A0512	RT4105M	Mobile Application Development Lab	21	42	2
14VV1A0512	RT4105N	Software Testing Lab	22	45	2
14VV1A0512	RT4105O	Hadoop & Big Data Lab	13	20	2
14VV1A0513	RT41051	Cryptography and Network Security	11	37	3
14VV1A0513	RT41052	UML & Design Patterns	26	40	3
14VV1A0513	RT41053	Mobile Computing	20	45	3
14VV1A0513	RT41057	Artificial Intelligence	25	33	3
14VV1A0513	RT4105B	Hadoop and Big Data	15	28	3
14VV1A0513	RT4105L	UML & Design Patterns Lab	21	41	2
14VV1A0513	RT4105M	Mobile Application Development Lab	19	45	2
14VV1A0513	RT4105N	Software Testing Lab	23	46	2
14VV1A0513	RT4105O	Hadoop & Big Data Lab	19	22	2
14VV1A0514	RT41051	Cryptography and Network Security	19	59	3
14VV1A0514	RT41052	UML & Design Patterns	29	43	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0514	RT41053	Mobile Computing	25	56	3
14VV1A0514	RT41057	Artificial Intelligence	27	37	3
14VV1A0514	RT4105B	Hadoop and Big Data	22	57	3
14VV1A0514	RT4105L	UML & Design Patterns Lab	24	46	2
14VV1A0514	RT4105M	Mobile Application Development Lab	25	47	2
14VV1A0514	RT4105N	Software Testing Lab	22	45	2
14VV1A0514	RT4105O	Hadoop & Big Data Lab	15	32	2
14VV1A0515	RT41051	Cryptography and Network Security	18	42	3
14VV1A0515	RT41052	UML & Design Patterns	28	43	3
14VV1A0515	RT41053	Mobile Computing	20	42	3
14VV1A0515	RT41057	Artificial Intelligence	29	45	3
14VV1A0515	RT4105B	Hadoop and Big Data	18	32	3
14VV1A0515	RT4105L	UML & Design Patterns Lab	22	45	2
14VV1A0515	RT4105M	Mobile Application Development Lab	22	45	2
14VV1A0515	RT4105N	Software Testing Lab	20	43	2
14VV1A0515	RT4105O	Hadoop & Big Data Lab	17	38	2
14VV1A0516	RT41051	Cryptography and Network Security	12	32	3
14VV1A0516	RT41052	UML & Design Patterns	25	34	3
14VV1A0516	RT41053	Mobile Computing	21	39	3
14VV1A0516	RT41057	Artificial Intelligence	27	30	3
14VV1A0516	RT4105B	Hadoop and Big Data	20	29	3
14VV1A0516	RT4105L	UML & Design Patterns Lab	21	35	2
14VV1A0516	RT4105M	Mobile Application Development Lab	21	44	2
14VV1A0516	RT4105N	Software Testing Lab	24	47	2
14VV1A0516	RT4105O	Hadoop & Big Data Lab	15	24	2
14VV1A0517	RT41051	Cryptography and Network Security	21	40	3
14VV1A0517	RT41052	UML & Design Patterns	22	50	3
14VV1A0517	RT41053	Mobile Computing	21	50	3
14VV1A0517	RT41057	Artificial Intelligence	23	33	3
14VV1A0517	RT4105B	Hadoop and Big Data	24	32	3
14VV1A0517	RT4105L	UML & Design Patterns Lab	22	43	2
14VV1A0517	RT4105M	Mobile Application Development Lab	24	43	2
14VV1A0517	RT4105N	Software Testing Lab	23	45	2
14VV1A0517	RT4105O	Hadoop & Big Data Lab	18	30	2
14VV1A0518	RT41051	Cryptography and Network Security	20	52	3
14VV1A0518	RT41052	UML & Design Patterns	27	55	3
14VV1A0518	RT41053	Mobile Computing	23	52	3
14VV1A0518	RT41057	Artificial Intelligence	27	34	3
14VV1A0518	RT4105B	Hadoop and Big Data	22	30	3
14VV1A0518	RT4105L	UML & Design Patterns Lab	23	45	2
14VV1A0518	RT4105M	Mobile Application Development Lab	23	46	2
14VV1A0518	RT4105N	Software Testing Lab	24	46	2
14VV1A0518	RT4105O	Hadoop & Big Data Lab	19	35	2
14VV1A0519	RT41051	Cryptography and Network Security	13	47	3
14VV1A0519	RT41052	UML & Design Patterns	28	39	3
14VV1A0519	RT41053	Mobile Computing	25	58	3
14VV1A0519	RT41057	Artificial Intelligence	27	44	3
14VV1A0519	RT4105B	Hadoop and Big Data	19	56	3
14VV1A0519	RT4105L	UML & Design Patterns Lab	21	35	2
14VV1A0519	RT4105M	Mobile Application Development Lab	20	45	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0519	RT4105N	Software Testing Lab	23	46	2
14VV1A0519	RT4105O	Hadoop & Big Data Lab	10	23	2
14VV1A0520	RT41051	Cryptography and Network Security	14	38	3
14VV1A0520	RT41052	UML & Design Patterns	27	44	3
14VV1A0520	RT41053	Mobile Computing	23	48	3
14VV1A0520	RT41057	Artificial Intelligence	28	31	3
14VV1A0520	RT4105B	Hadoop and Big Data	16	36	3
14VV1A0520	RT4105L	UML & Design Patterns Lab	21	36	2
14VV1A0520	RT4105M	Mobile Application Development Lab	21	44	2
14VV1A0520	RT4105N	Software Testing Lab	22	46	2
14VV1A0520	RT4105O	Hadoop & Big Data Lab	17	22	2
14VV1A0521	RT41051	Cryptography and Network Security	16	51	3
14VV1A0521	RT41052	UML & Design Patterns	18	50	3
14VV1A0521	RT41053	Mobile Computing	21	59	3
14VV1A0521	RT41057	Artificial Intelligence	24	36	3
14VV1A0521	RT4105B	Hadoop and Big Data	15	42	3
14VV1A0521	RT4105L	UML & Design Patterns Lab	21	35	2
14VV1A0521	RT4105M	Mobile Application Development Lab	23	44	2
14VV1A0521	RT4105N	Software Testing Lab	23	46	2
14VV1A0521	RT4105O	Hadoop & Big Data Lab	12	20	2
14VV1A0522	RT41051	Cryptography and Network Security	14	32	3
14VV1A0522	RT41052	UML & Design Patterns	28	44	3
14VV1A0522	RT41053	Mobile Computing	22	44	3
14VV1A0522	RT41057	Artificial Intelligence	25	32	3
14VV1A0522	RT4105B	Hadoop and Big Data	16	47	3
14VV1A0522	RT4105L	UML & Design Patterns Lab	22	41	2
14VV1A0522	RT4105M	Mobile Application Development Lab	23	44	2
14VV1A0522	RT4105N	Software Testing Lab	22	45	2
14VV1A0522	RT4105O	Hadoop & Big Data Lab	17	43	2
14VV1A0523	RT41051	Cryptography and Network Security	10	30	3
14VV1A0523	RT41052	UML & Design Patterns	25	33	3
14VV1A0523	RT41053	Mobile Computing	20	43	3
14VV1A0523	RT41057	Artificial Intelligence	24	27	3
14VV1A0523	RT4105B	Hadoop and Big Data	17	25	3
14VV1A0523	RT4105L	UML & Design Patterns Lab	22	43	2
14VV1A0523	RT4105M	Mobile Application Development Lab	23	41	2
14VV1A0523	RT4105N	Software Testing Lab	22	45	2
14VV1A0523	RT4105O	Hadoop & Big Data Lab	23	38	2
14VV1A0524	RT41051	Cryptography and Network Security	15	46	3
14VV1A0524	RT41052	UML & Design Patterns	23	55	3
14VV1A0524	RT41053	Mobile Computing	25	55	3
14VV1A0524	RT41057	Artificial Intelligence	28	42	3
14VV1A0524	RT4105B	Hadoop and Big Data	17	68	3
14VV1A0524	RT4105L	UML & Design Patterns Lab	22	45	2
14VV1A0524	RT4105M	Mobile Application Development Lab	22	41	2
14VV1A0524	RT4105N	Software Testing Lab	21	44	2
14VV1A0524	RT4105O	Hadoop & Big Data Lab	14	22	2
14VV1A0525	RT41051	Cryptography and Network Security	18	48	3
14VV1A0525	RT41052	UML & Design Patterns	27	48	3
14VV1A0525	RT41053	Mobile Computing	25	50	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0525	RT41057	Artificial Intelligence	26	50	3
14VV1A0525	RT4105B	Hadoop and Big Data	19	36	3
14VV1A0525	RT4105L	UML & Design Patterns Lab	21	36	2
14VV1A0525	RT4105M	Mobile Application Development Lab	22	46	2
14VV1A0525	RT4105N	Software Testing Lab	24	46	2
14VV1A0525	RT4105O	Hadoop & Big Data Lab	21	43	2
14VV1A0526	RT41051	Cryptography and Network Security	15	41	3
14VV1A0526	RT41052	UML & Design Patterns	30	38	3
14VV1A0526	RT41053	Mobile Computing	20	42	3
14VV1A0526	RT41057	Artificial Intelligence	24	39	3
14VV1A0526	RT4105B	Hadoop and Big Data	16	45	3
14VV1A0526	RT4105L	UML & Design Patterns Lab	24	46	2
14VV1A0526	RT4105M	Mobile Application Development Lab	19	45	2
14VV1A0526	RT4105N	Software Testing Lab	23	46	2
14VV1A0526	RT4105O	Hadoop & Big Data Lab	19	39	2
14VV1A0527	RT41051	Cryptography and Network Security	19	45	3
14VV1A0527	RT41052	UML & Design Patterns	27	43	3
14VV1A0527	RT41053	Mobile Computing	26	55	3
14VV1A0527	RT41057	Artificial Intelligence	25	48	3
14VV1A0527	RT4105B	Hadoop and Big Data	19	60	3
14VV1A0527	RT4105L	UML & Design Patterns Lab	22	41	2
14VV1A0527	RT4105M	Mobile Application Development Lab	22	45	2
14VV1A0527	RT4105N	Software Testing Lab	23	45	2
14VV1A0527	RT4105O	Hadoop & Big Data Lab	13	36	2
14VV1A0528	RT41051	Cryptography and Network Security	10	31	3
14VV1A0528	RT41052	UML & Design Patterns	26	24	3
14VV1A0528	RT41053	Mobile Computing	22	27	3
14VV1A0528	RT41057	Artificial Intelligence	25	20	0
14VV1A0528	RT4105B	Hadoop and Big Data	14	26	3
14VV1A0528	RT4105L	UML & Design Patterns Lab	22	41	2
14VV1A0528	RT4105M	Mobile Application Development Lab	19	43	2
14VV1A0528	RT4105N	Software Testing Lab	22	44	2
14VV1A0528	RT4105O	Hadoop & Big Data Lab	14	20	2
14VV1A0529	RT41051	Cryptography and Network Security	15	38	3
14VV1A0529	RT41052	UML & Design Patterns	22	43	3
14VV1A0529	RT41053	Mobile Computing	23	39	3
14VV1A0529	RT41057	Artificial Intelligence	24	38	3
14VV1A0529	RT4105B	Hadoop and Big Data	12	49	3
14VV1A0529	RT4105L	UML & Design Patterns Lab	22	42	2
14VV1A0529	RT4105M	Mobile Application Development Lab	22	44	2
14VV1A0529	RT4105N	Software Testing Lab	21	44	2
14VV1A0529	RT4105O	Hadoop & Big Data Lab	13	29	2
14VV1A0531	RT41051	Cryptography and Network Security	11	41	3
14VV1A0531	RT41052	UML & Design Patterns	24	38	3
14VV1A0531	RT41053	Mobile Computing	23	45	3
14VV1A0531	RT41057	Artificial Intelligence	24	24	3
14VV1A0531	RT4105B	Hadoop and Big Data	14	39	3
14VV1A0531	RT4105L	UML & Design Patterns Lab	21	36	2
14VV1A0531	RT4105M	Mobile Application Development Lab	21	45	2
14VV1A0531	RT4105N	Software Testing Lab	22	44	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0531	RT4105O	Hadoop & Big Data Lab	14	28	2
14VV1A0532	RT41051	Cryptography and Network Security	19	51	3
14VV1A0532	RT41052	UML & Design Patterns	23	46	3
14VV1A0532	RT41053	Mobile Computing	25	57	3
14VV1A0532	RT41057	Artificial Intelligence	26	47	3
14VV1A0532	RT4105B	Hadoop and Big Data	19	49	3
14VV1A0532	RT4105L	UML & Design Patterns Lab	22	42	2
14VV1A0532	RT4105M	Mobile Application Development Lab	24	45	2
14VV1A0532	RT4105N	Software Testing Lab	24	46	2
14VV1A0532	RT4105O	Hadoop & Big Data Lab	19	24	2
14VV1A0533	RT41051	Cryptography and Network Security	15	41	3
14VV1A0533	RT41052	UML & Design Patterns	24	43	3
14VV1A0533	RT41053	Mobile Computing	19	43	3
14VV1A0533	RT41057	Artificial Intelligence	26	27	3
14VV1A0533	RT4105B	Hadoop and Big Data	13	53	3
14VV1A0533	RT4105L	UML & Design Patterns Lab	22	41	2
14VV1A0533	RT4105M	Mobile Application Development Lab	21	45	2
14VV1A0533	RT4105N	Software Testing Lab	20	43	2
14VV1A0533	RT4105O	Hadoop & Big Data Lab	14	21	2
14VV1A0534	RT41051	Cryptography and Network Security	18	51	3
14VV1A0534	RT41052	UML & Design Patterns	30	50	3
14VV1A0534	RT41053	Mobile Computing	28	52	3
14VV1A0534	RT41057	Artificial Intelligence	29	45	3
14VV1A0534	RT4105B	Hadoop and Big Data	25	59	3
14VV1A0534	RT4105L	UML & Design Patterns Lab	24	45	2
14VV1A0534	RT4105M	Mobile Application Development Lab	24	46	2
14VV1A0534	RT4105N	Software Testing Lab	22	44	2
14VV1A0534	RT4105O	Hadoop & Big Data Lab	20	46	2
14VV1A0535	RT41051	Cryptography and Network Security	13	28	3
14VV1A0535	RT41052	UML & Design Patterns	23	43	3
14VV1A0535	RT41053	Mobile Computing	23	47	3
14VV1A0535	RT41057	Artificial Intelligence	25	28	3
14VV1A0535	RT4105B	Hadoop and Big Data	25	43	3
14VV1A0535	RT4105L	UML & Design Patterns Lab	24	42	2
14VV1A0535	RT4105M	Mobile Application Development Lab	22	46	2
14VV1A0535	RT4105N	Software Testing Lab	23	45	2
14VV1A0535	RT4105O	Hadoop & Big Data Lab	16	46	2
14VV1A0536	RT41051	Cryptography and Network Security	21	49	3
14VV1A0536	RT41052	UML & Design Patterns	26	38	3
14VV1A0536	RT41053	Mobile Computing	23	51	3
14VV1A0536	RT41057	Artificial Intelligence	29	42	3
14VV1A0536	RT4105B	Hadoop and Big Data	22	68	3
14VV1A0536	RT4105L	UML & Design Patterns Lab	21	39	2
14VV1A0536	RT4105M	Mobile Application Development Lab	23	45	2
14VV1A0536	RT4105N	Software Testing Lab	24	46	2
14VV1A0536	RT4105O	Hadoop & Big Data Lab	20	32	2
14VV1A0537	RT41051	Cryptography and Network Security	20	54	3
14VV1A0537	RT41052	UML & Design Patterns	29	53	3
14VV1A0537	RT41053	Mobile Computing	26	53	3
14VV1A0537	RT41057	Artificial Intelligence	28	42	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0537	RT4105B	Hadoop and Big Data	22	66	3
14VV1A0537	RT4105L	UML & Design Patterns Lab	22	45	2
14VV1A0537	RT4105M	Mobile Application Development Lab	19	45	2
14VV1A0537	RT4105N	Software Testing Lab	24	46	2
14VV1A0537	RT4105O	Hadoop & Big Data Lab	16	37	2
14VV1A0538	RT41051	Cryptography and Network Security	26	46	3
14VV1A0538	RT41052	UML & Design Patterns	29	43	3
14VV1A0538	RT41053	Mobile Computing	26	45	3
14VV1A0538	RT41057	Artificial Intelligence	29	47	3
14VV1A0538	RT4105B	Hadoop and Big Data	21	45	3
14VV1A0538	RT4105L	UML & Design Patterns Lab	22	45	2
14VV1A0538	RT4105M	Mobile Application Development Lab	22	46	2
14VV1A0538	RT4105N	Software Testing Lab	24	47	2
14VV1A0538	RT4105O	Hadoop & Big Data Lab	17	48	2
14VV1A0539	RT41051	Cryptography and Network Security	12	32	3
14VV1A0539	RT41052	UML & Design Patterns	28	36	3
14VV1A0539	RT41053	Mobile Computing	25	39	3
14VV1A0539	RT41057	Artificial Intelligence	26	27	3
14VV1A0539	RT4105B	Hadoop and Big Data	12	28	3
14VV1A0539	RT4105L	UML & Design Patterns Lab	21	33	2
14VV1A0539	RT4105M	Mobile Application Development Lab	22	36	2
14VV1A0539	RT4105N	Software Testing Lab	24	46	2
14VV1A0539	RT4105O	Hadoop & Big Data Lab	17	20	2
14VV1A0540	RT41051	Cryptography and Network Security	18	38	3
14VV1A0540	RT41052	UML & Design Patterns	28	40	3
14VV1A0540	RT41053	Mobile Computing	21	47	3
14VV1A0540	RT41057	Artificial Intelligence	29	40	3
14VV1A0540	RT4105B	Hadoop and Big Data	23	50	3
14VV1A0540	RT4105L	UML & Design Patterns Lab	22	45	2
14VV1A0540	RT4105M	Mobile Application Development Lab	22	46	2
14VV1A0540	RT4105N	Software Testing Lab	25	49	2
14VV1A0540	RT4105O	Hadoop & Big Data Lab	16	42	2
14VV1A0541	RT41051	Cryptography and Network Security	15	53	3
14VV1A0541	RT41052	UML & Design Patterns	28	60	3
14VV1A0541	RT41053	Mobile Computing	25	57	3
14VV1A0541	RT41057	Artificial Intelligence	29	28	3
14VV1A0541	RT4105B	Hadoop and Big Data	27	41	3
14VV1A0541	RT4105L	UML & Design Patterns Lab	23	46	2
14VV1A0541	RT4105M	Mobile Application Development Lab	21	49	2
14VV1A0541	RT4105N	Software Testing Lab	24	46	2
14VV1A0541	RT4105O	Hadoop & Big Data Lab	25	50	2
14VV1A0542	RT41051	Cryptography and Network Security	27	47	3
14VV1A0542	RT41052	UML & Design Patterns	25	52	3
14VV1A0542	RT41053	Mobile Computing	27	51	3
14VV1A0542	RT41057	Artificial Intelligence	28	52	3
14VV1A0542	RT4105B	Hadoop and Big Data	24	55	3
14VV1A0542	RT4105L	UML & Design Patterns Lab	21	45	2
14VV1A0542	RT4105M	Mobile Application Development Lab	21	47	2
14VV1A0542	RT4105N	Software Testing Lab	24	45	2
14VV1A0542	RT4105O	Hadoop & Big Data Lab	17	36	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0543	RT41051	Cryptography and Network Security	18	50	3
14VV1A0543	RT41052	UML & Design Patterns	22	44	3
14VV1A0543	RT41053	Mobile Computing	25	50	3
14VV1A0543	RT41057	Artificial Intelligence	26	43	3
14VV1A0543	RT4105B	Hadoop and Big Data	17	68	3
14VV1A0543	RT4105L	UML & Design Patterns Lab	22	42	2
14VV1A0543	RT4105M	Mobile Application Development Lab	22	43	2
14VV1A0543	RT4105N	Software Testing Lab	23	45	2
14VV1A0543	RT4105O	Hadoop & Big Data Lab	16	38	2
14VV1A0544	RT41051	Cryptography and Network Security	18	42	3
14VV1A0544	RT41052	UML & Design Patterns	20	43	3
14VV1A0544	RT41053	Mobile Computing	20	50	3
14VV1A0544	RT41057	Artificial Intelligence	28	45	3
14VV1A0544	RT4105B	Hadoop and Big Data	17	39	3
14VV1A0544	RT4105L	UML & Design Patterns Lab	21	35	2
14VV1A0544	RT4105M	Mobile Application Development Lab	22	45	2
14VV1A0544	RT4105N	Software Testing Lab	24	45	2
14VV1A0544	RT4105O	Hadoop & Big Data Lab	14	33	2
14VV1A0546	RT41051	Cryptography and Network Security	20	52	3
14VV1A0546	RT41052	UML & Design Patterns	28	47	3
14VV1A0546	RT41053	Mobile Computing	21	51	3
14VV1A0546	RT41057	Artificial Intelligence	28	34	3
14VV1A0546	RT4105B	Hadoop and Big Data	17	49	3
14VV1A0546	RT4105L	UML & Design Patterns Lab	22	41	2
14VV1A0546	RT4105M	Mobile Application Development Lab	22	45	2
14VV1A0546	RT4105N	Software Testing Lab	24	46	2
14VV1A0546	RT4105O	Hadoop & Big Data Lab	15	25	2
14VV1A0547	RT41051	Cryptography and Network Security	15	44	3
14VV1A0547	RT41052	UML & Design Patterns	22	33	3
14VV1A0547	RT41053	Mobile Computing	20	48	3
14VV1A0547	RT41057	Artificial Intelligence	28	57	3
14VV1A0547	RT4105B	Hadoop and Big Data	22	59	3
14VV1A0547	RT4105L	UML & Design Patterns Lab	22	43	2
14VV1A0547	RT4105M	Mobile Application Development Lab	24	47	2
14VV1A0547	RT4105N	Software Testing Lab	24	47	2
14VV1A0547	RT4105O	Hadoop & Big Data Lab	20	25	2
14VV1A0548	RT41051	Cryptography and Network Security	20	50	3
14VV1A0548	RT41052	UML & Design Patterns	27	55	3
14VV1A0548	RT41053	Mobile Computing	24	51	3
14VV1A0548	RT41057	Artificial Intelligence	26	43	3
14VV1A0548	RT4105B	Hadoop and Big Data	22	51	3
14VV1A0548	RT4105L	UML & Design Patterns Lab	21	43	2
14VV1A0548	RT4105M	Mobile Application Development Lab	21	45	2
14VV1A0548	RT4105N	Software Testing Lab	25	49	2
14VV1A0548	RT4105O	Hadoop & Big Data Lab	18	50	2
14VV1A0549	RT41051	Cryptography and Network Security	12	37	3
14VV1A0549	RT41052	UML & Design Patterns	23	33	3
14VV1A0549	RT41053	Mobile Computing	21	37	3
14VV1A0549	RT41057	Artificial Intelligence	28	50	3
14VV1A0549	RT4105B	Hadoop and Big Data	16	33	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A0549	RT4105L	UML & Design Patterns Lab	22	42	2
14VV1A0549	RT4105M	Mobile Application Development Lab	22	46	2
14VV1A0549	RT4105N	Software Testing Lab	24	47	2
14VV1A0549	RT4105O	Hadoop & Big Data Lab	14	40	2
14VV1A0550	RT41051	Cryptography and Network Security	16	40	3
14VV1A0550	RT41052	UML & Design Patterns	23	42	3
14VV1A0550	RT41053	Mobile Computing	25	48	3
14VV1A0550	RT41057	Artificial Intelligence	25	37	3
14VV1A0550	RT4105B	Hadoop and Big Data	21	31	3
14VV1A0550	RT4105L	UML & Design Patterns Lab	21	40	2
14VV1A0550	RT4105M	Mobile Application Development Lab	21	45	2
14VV1A0550	RT4105N	Software Testing Lab	22	44	2
14VV1A0550	RT4105O	Hadoop & Big Data Lab	17	30	2
14VV1A0551	RT41051	Cryptography and Network Security	15	55	3
14VV1A0551	RT41052	UML & Design Patterns	28	46	3
14VV1A0551	RT41053	Mobile Computing	26	51	3
14VV1A0551	RT41057	Artificial Intelligence	25	39	3
14VV1A0551	RT4105B	Hadoop and Big Data	17	50	3
14VV1A0551	RT4105L	UML & Design Patterns Lab	21	36	2
14VV1A0551	RT4105M	Mobile Application Development Lab	23	47	2
14VV1A0551	RT4105N	Software Testing Lab	22	44	2
14VV1A0551	RT4105O	Hadoop & Big Data Lab	22	43	2
14VV1A0553	RT41051	Cryptography and Network Security	15	38	3
14VV1A0553	RT41052	UML & Design Patterns	24	43	3
14VV1A0553	RT41053	Mobile Computing	20	43	3
14VV1A0553	RT41057	Artificial Intelligence	25	44	3
14VV1A0553	RT4105B	Hadoop and Big Data	14	53	3
14VV1A0553	RT4105L	UML & Design Patterns Lab	21	40	2
14VV1A0553	RT4105M	Mobile Application Development Lab	21	45	2
14VV1A0553	RT4105N	Software Testing Lab	23	44	2
14VV1A0553	RT4105O	Hadoop & Big Data Lab	12	22	2
14VV1A0554	RT41051	Cryptography and Network Security	9	44	3
14VV1A0554	RT41052	UML & Design Patterns	25	36	3
14VV1A0554	RT41053	Mobile Computing	20	44	3
14VV1A0554	RT41057	Artificial Intelligence	25	32	3
14VV1A0554	RT4105B	Hadoop and Big Data	11	29	3
14VV1A0554	RT4105L	UML & Design Patterns Lab	22	42	2
14VV1A0554	RT4105M	Mobile Application Development Lab	21	47	2
14VV1A0554	RT4105N	Software Testing Lab	22	44	2
14VV1A0554	RT4105O	Hadoop & Big Data Lab	10	22	2
14VV1A0555	RT41051	Cryptography and Network Security	17	45	3
14VV1A0555	RT41052	UML & Design Patterns	28	44	3
14VV1A0555	RT41053	Mobile Computing	23	48	3
14VV1A0555	RT41057	Artificial Intelligence	29	44	3
14VV1A0555	RT4105B	Hadoop and Big Data	16	56	3
14VV1A0555	RT4105L	UML & Design Patterns Lab	24	46	2
14VV1A0555	RT4105M	Mobile Application Development Lab	20	42	2
14VV1A0555	RT4105N	Software Testing Lab	24	46	2
14VV1A0555	RT4105O	Hadoop & Big Data Lab	14	29	2
14VV1A1201	RT41051	Cryptography and Network Security	28	43	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A1201	RT41052	UML & Design Patterns	24	46	3
14VV1A1201	RT41053	Mobile Computing	26	48	3
14VV1A1201	RT41056	Information Retrieval Systems	25	56	3
14VV1A1201	RT4105B	Hadoop and Big Data	29	52	3
14VV1A1201	RT4112L	UML & Design Patterns Lab	23	45	2
14VV1A1201	RT4112M	Mobile Application Development Lab	22	43	2
14VV1A1201	RT4112N	Software Engineering Lab	23	48	2
14VV1A1201	RT4112O	Hadoop & Big Data Lab	21	38	2
14VV1A1202	RT41051	Cryptography and Network Security	27	46	3
14VV1A1202	RT41052	UML & Design Patterns	25	49	3
14VV1A1202	RT41053	Mobile Computing	26	55	3
14VV1A1202	RT41056	Information Retrieval Systems	24	54	3
14VV1A1202	RT4105B	Hadoop and Big Data	28	51	3
14VV1A1202	RT4112L	UML & Design Patterns Lab	25	49	2
14VV1A1202	RT4112M	Mobile Application Development Lab	23	45	2
14VV1A1202	RT4112N	Software Engineering Lab	25	50	2
14VV1A1202	RT4112O	Hadoop & Big Data Lab	23	46	2
14VV1A1203	RT41051	Cryptography and Network Security	25	42	3
14VV1A1203	RT41052	UML & Design Patterns	23	49	3
14VV1A1203	RT41053	Mobile Computing	27	44	3
14VV1A1203	RT41056	Information Retrieval Systems	25	49	3
14VV1A1203	RT4105B	Hadoop and Big Data	27	55	3
14VV1A1203	RT4112L	UML & Design Patterns Lab	22	44	2
14VV1A1203	RT4112M	Mobile Application Development Lab	22	43	2
14VV1A1203	RT4112N	Software Engineering Lab	22	45	2
14VV1A1203	RT4112O	Hadoop & Big Data Lab	19	36	2
14VV1A1204	RT41051	Cryptography and Network Security	26	-1	0
14VV1A1204	RT41052	UML & Design Patterns	23	-1	0
14VV1A1204	RT41053	Mobile Computing	25	46	3
14VV1A1204	RT41056	Information Retrieval Systems	22	51	3
14VV1A1204	RT4105B	Hadoop and Big Data	28	50	3
14VV1A1204	RT4112L	UML & Design Patterns Lab	21	44	2
14VV1A1204	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1204	RT4112N	Software Engineering Lab	22	43	2
14VV1A1204	RT4112O	Hadoop & Big Data Lab	21	36	2
14VV1A1205	RT41051	Cryptography and Network Security	28	57	3
14VV1A1205	RT41052	UML & Design Patterns	25	54	3
14VV1A1205	RT41053	Mobile Computing	28	48	3
14VV1A1205	RT41056	Information Retrieval Systems	24	53	3
14VV1A1205	RT4105B	Hadoop and Big Data	29	56	3
14VV1A1205	RT4112L	UML & Design Patterns Lab	23	47	2
14VV1A1205	RT4112M	Mobile Application Development Lab	24	45	2
14VV1A1205	RT4112N	Software Engineering Lab	25	50	2
14VV1A1205	RT4112O	Hadoop & Big Data Lab	24	46	2
14VV1A1206	RT41051	Cryptography and Network Security	25	44	3
14VV1A1206	RT41052	UML & Design Patterns	24	46	3
14VV1A1206	RT41053	Mobile Computing	27	44	3
14VV1A1206	RT41056	Information Retrieval Systems	23	50	3
14VV1A1206	RT4105B	Hadoop and Big Data	29	53	3
14VV1A1206	RT4112L	UML & Design Patterns Lab	23	46	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A1206	RT4112M	Mobile Application Development Lab	22	43	2
14VV1A1206	RT4112N	Software Engineering Lab	24	46	2
14VV1A1206	RT4112O	Hadoop & Big Data Lab	22	42	2
14VV1A1208	RT41051	Cryptography and Network Security	29	49	3
14VV1A1208	RT41052	UML & Design Patterns	24	47	3
14VV1A1208	RT41053	Mobile Computing	24	50	3
14VV1A1208	RT41056	Information Retrieval Systems	24	47	3
14VV1A1208	RT4105B	Hadoop and Big Data	29	51	3
14VV1A1208	RT4112L	UML & Design Patterns Lab	22	46	2
14VV1A1208	RT4112M	Mobile Application Development Lab	21	45	2
14VV1A1208	RT4112N	Software Engineering Lab	22	40	2
14VV1A1208	RT4112O	Hadoop & Big Data Lab	22	41	2
14VV1A1209	RT41051	Cryptography and Network Security	26	36	3
14VV1A1209	RT41052	UML & Design Patterns	23	45	3
14VV1A1209	RT41053	Mobile Computing	21	34	3
14VV1A1209	RT41056	Information Retrieval Systems	26	30	3
14VV1A1209	RT4105B	Hadoop and Big Data	29	42	3
14VV1A1209	RT4112L	UML & Design Patterns Lab	22	44	2
14VV1A1209	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1209	RT4112N	Software Engineering Lab	23	44	2
14VV1A1209	RT4112O	Hadoop & Big Data Lab	23	45	2
14VV1A1210	RT41051	Cryptography and Network Security	25	47	3
14VV1A1210	RT41052	UML & Design Patterns	26	48	3
14VV1A1210	RT41053	Mobile Computing	24	50	3
14VV1A1210	RT41056	Information Retrieval Systems	24	48	3
14VV1A1210	RT4105B	Hadoop and Big Data	28	48	3
14VV1A1210	RT4112L	UML & Design Patterns Lab	22	44	2
14VV1A1210	RT4112M	Mobile Application Development Lab	22	41	2
14VV1A1210	RT4112N	Software Engineering Lab	21	39	2
14VV1A1210	RT4112O	Hadoop & Big Data Lab	21	39	2
14VV1A1212	RT41051	Cryptography and Network Security	27	48	3
14VV1A1212	RT41052	UML & Design Patterns	23	53	3
14VV1A1212	RT41053	Mobile Computing	24	53	3
14VV1A1212	RT41056	Information Retrieval Systems	26	52	3
14VV1A1212	RT4105B	Hadoop and Big Data	27	52	3
14VV1A1212	RT4112L	UML & Design Patterns Lab	23	43	2
14VV1A1212	RT4112M	Mobile Application Development Lab	23	46	2
14VV1A1212	RT4112N	Software Engineering Lab	24	47	2
14VV1A1212	RT4112O	Hadoop & Big Data Lab	21	39	2
14VV1A1213	RT41051	Cryptography and Network Security	28	42	3
14VV1A1213	RT41052	UML & Design Patterns	25	46	3
14VV1A1213	RT41053	Mobile Computing	24	52	3
14VV1A1213	RT41056	Information Retrieval Systems	24	48	3
14VV1A1213	RT4105B	Hadoop and Big Data	28	48	3
14VV1A1213	RT4112L	UML & Design Patterns Lab	22	43	2
14VV1A1213	RT4112M	Mobile Application Development Lab	21	43	2
14VV1A1213	RT4112N	Software Engineering Lab	19	44	2
14VV1A1213	RT4112O	Hadoop & Big Data Lab	21	36	2
14VV1A1214	RT41051	Cryptography and Network Security	28	56	3
14VV1A1214	RT41052	UML & Design Patterns	25	47	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A1214	RT41053	Mobile Computing	25	52	3
14VV1A1214	RT41056	Information Retrieval Systems	23	46	3
14VV1A1214	RT4105B	Hadoop and Big Data	28	52	3
14VV1A1214	RT4112L	UML & Design Patterns Lab	21	44	2
14VV1A1214	RT4112M	Mobile Application Development Lab	21	44	2
14VV1A1214	RT4112N	Software Engineering Lab	23	45	2
14VV1A1214	RT4112O	Hadoop & Big Data Lab	21	39	2
14VV1A1215	RT41051	Cryptography and Network Security	24	42	3
14VV1A1215	RT41052	UML & Design Patterns	26	40	3
14VV1A1215	RT41053	Mobile Computing	25	52	3
14VV1A1215	RT41056	Information Retrieval Systems	24	48	3
14VV1A1215	RT4105B	Hadoop and Big Data	29	45	3
14VV1A1215	RT4112L	UML & Design Patterns Lab	21	42	2
14VV1A1215	RT4112M	Mobile Application Development Lab	20	42	2
14VV1A1215	RT4112N	Software Engineering Lab	21	39	2
14VV1A1215	RT4112O	Hadoop & Big Data Lab	20	39	2
14VV1A1216	RT41051	Cryptography and Network Security	20	37	3
14VV1A1216	RT41052	UML & Design Patterns	25	40	3
14VV1A1216	RT41053	Mobile Computing	26	42	3
14VV1A1216	RT41056	Information Retrieval Systems	21	33	3
14VV1A1216	RT4105B	Hadoop and Big Data	24	46	3
14VV1A1216	RT4112L	UML & Design Patterns Lab	24	47	2
14VV1A1216	RT4112M	Mobile Application Development Lab	23	47	2
14VV1A1216	RT4112N	Software Engineering Lab	22	42	2
14VV1A1216	RT4112O	Hadoop & Big Data Lab	23	45	2
14VV1A1217	RT41051	Cryptography and Network Security	28	54	3
14VV1A1217	RT41052	UML & Design Patterns	24	46	3
14VV1A1217	RT41053	Mobile Computing	27	53	3
14VV1A1217	RT41056	Information Retrieval Systems	21	56	3
14VV1A1217	RT4105B	Hadoop and Big Data	30	50	3
14VV1A1217	RT4112L	UML & Design Patterns Lab	23	47	2
14VV1A1217	RT4112M	Mobile Application Development Lab	22	46	2
14VV1A1217	RT4112N	Software Engineering Lab	23	45	2
14VV1A1217	RT4112O	Hadoop & Big Data Lab	24	46	2
14VV1A1218	RT41051	Cryptography and Network Security	29	45	3
14VV1A1218	RT41052	UML & Design Patterns	24	48	3
14VV1A1218	RT41053	Mobile Computing	25	45	3
14VV1A1218	RT41056	Information Retrieval Systems	26	40	3
14VV1A1218	RT4105B	Hadoop and Big Data	29	50	3
14VV1A1218	RT4112L	UML & Design Patterns Lab	20	43	2
14VV1A1218	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1218	RT4112N	Software Engineering Lab	24	46	2
14VV1A1218	RT4112O	Hadoop & Big Data Lab	22	40	2
14VV1A1219	RT41051	Cryptography and Network Security	22	44	3
14VV1A1219	RT41052	UML & Design Patterns	23	47	3
14VV1A1219	RT41053	Mobile Computing	26	45	3
14VV1A1219	RT41056	Information Retrieval Systems	23	46	3
14VV1A1219	RT4105B	Hadoop and Big Data	27	51	3
14VV1A1219	RT4112L	UML & Design Patterns Lab	21	44	2
14VV1A1219	RT4112M	Mobile Application Development Lab	22	44	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A1219	RT4112N	Software Engineering Lab	23	46	2
14VV1A1219	RT4112O	Hadoop & Big Data Lab	22	41	2
14VV1A1220	RT41051	Cryptography and Network Security	26	51	3
14VV1A1220	RT41052	UML & Design Patterns	23	46	3
14VV1A1220	RT41053	Mobile Computing	26	46	3
14VV1A1220	RT41056	Information Retrieval Systems	23	43	3
14VV1A1220	RT4105B	Hadoop and Big Data	28	49	3
14VV1A1220	RT4112L	UML & Design Patterns Lab	23	45	2
14VV1A1220	RT4112M	Mobile Application Development Lab	23	45	2
14VV1A1220	RT4112N	Software Engineering Lab	24	45	2
14VV1A1220	RT4112O	Hadoop & Big Data Lab	21	39	2
14VV1A1221	RT41051	Cryptography and Network Security	26	29	3
14VV1A1221	RT41052	UML & Design Patterns	25	51	3
14VV1A1221	RT41053	Mobile Computing	25	52	3
14VV1A1221	RT41056	Information Retrieval Systems	26	51	3
14VV1A1221	RT4105B	Hadoop and Big Data	28	48	3
14VV1A1221	RT4112L	UML & Design Patterns Lab	22	44	2
14VV1A1221	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1221	RT4112N	Software Engineering Lab	21	43	2
14VV1A1221	RT4112O	Hadoop & Big Data Lab	23	38	2
14VV1A1222	RT41051	Cryptography and Network Security	20	26	3
14VV1A1222	RT41052	UML & Design Patterns	24	41	3
14VV1A1222	RT41053	Mobile Computing	23	33	3
14VV1A1222	RT41056	Information Retrieval Systems	26	43	3
14VV1A1222	RT4105B	Hadoop and Big Data	27	43	3
14VV1A1222	RT4112L	UML & Design Patterns Lab	23	46	2
14VV1A1222	RT4112M	Mobile Application Development Lab	21	42	2
14VV1A1222	RT4112N	Software Engineering Lab	23	45	2
14VV1A1222	RT4112O	Hadoop & Big Data Lab	20	42	2
14VV1A1223	RT41051	Cryptography and Network Security	28	42	3
14VV1A1223	RT41052	UML & Design Patterns	26	50	3
14VV1A1223	RT41053	Mobile Computing	26	52	3
14VV1A1223	RT41056	Information Retrieval Systems	25	51	3
14VV1A1223	RT4105B	Hadoop and Big Data	30	50	3
14VV1A1223	RT4112L	UML & Design Patterns Lab	25	48	2
14VV1A1223	RT4112M	Mobile Application Development Lab	23	46	2
14VV1A1223	RT4112N	Software Engineering Lab	24	50	2
14VV1A1223	RT4112O	Hadoop & Big Data Lab	23	43	2
14VV1A1224	RT41051	Cryptography and Network Security	25	37	3
14VV1A1224	RT41052	UML & Design Patterns	23	49	3
14VV1A1224	RT41053	Mobile Computing	25	42	3
14VV1A1224	RT41056	Information Retrieval Systems	24	38	3
14VV1A1224	RT4105B	Hadoop and Big Data	28	52	3
14VV1A1224	RT4112L	UML & Design Patterns Lab	25	49	2
14VV1A1224	RT4112M	Mobile Application Development Lab	23	45	2
14VV1A1224	RT4112N	Software Engineering Lab	24	46	2
14VV1A1224	RT4112O	Hadoop & Big Data Lab	23	46	2
14VV1A1225	RT41051	Cryptography and Network Security	26	49	3
14VV1A1225	RT41052	UML & Design Patterns	24	48	3
14VV1A1225	RT41053	Mobile Computing	24	52	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A1225	RT41056	Information Retrieval Systems	22	49	3
14VV1A1225	RT4105B	Hadoop and Big Data	29	50	3
14VV1A1225	RT4112L	UML & Design Patterns Lab	25	49	2
14VV1A1225	RT4112M	Mobile Application Development Lab	21	46	2
14VV1A1225	RT4112N	Software Engineering Lab	24	44	2
14VV1A1225	RT4112O	Hadoop & Big Data Lab	23	46	2
14VV1A1226	RT41051	Cryptography and Network Security	27	33	3
14VV1A1226	RT41052	UML & Design Patterns	27	49	3
14VV1A1226	RT41053	Mobile Computing	24	36	3
14VV1A1226	RT41056	Information Retrieval Systems	24	38	3
14VV1A1226	RT4105B	Hadoop and Big Data	28	51	3
14VV1A1226	RT4112L	UML & Design Patterns Lab	23	47	2
14VV1A1226	RT4112M	Mobile Application Development Lab	20	44	2
14VV1A1226	RT4112N	Software Engineering Lab	22	47	2
14VV1A1226	RT4112O	Hadoop & Big Data Lab	22	43	2
14VV1A1227	RT41051	Cryptography and Network Security	27	36	3
14VV1A1227	RT41052	UML & Design Patterns	24	43	3
14VV1A1227	RT41053	Mobile Computing	20	42	3
14VV1A1227	RT41056	Information Retrieval Systems	23	45	3
14VV1A1227	RT4105B	Hadoop and Big Data	24	45	3
14VV1A1227	RT4112L	UML & Design Patterns Lab	22	48	2
14VV1A1227	RT4112M	Mobile Application Development Lab	21	43	2
14VV1A1227	RT4112N	Software Engineering Lab	24	49	2
14VV1A1227	RT4112O	Hadoop & Big Data Lab	22	46	2
14VV1A1228	RT41051	Cryptography and Network Security	30	41	3
14VV1A1228	RT41052	UML & Design Patterns	26	46	3
14VV1A1228	RT41053	Mobile Computing	25	52	3
14VV1A1228	RT41056	Information Retrieval Systems	25	51	3
14VV1A1228	RT4105B	Hadoop and Big Data	29	52	3
14VV1A1228	RT4112L	UML & Design Patterns Lab	22	47	2
14VV1A1228	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1228	RT4112N	Software Engineering Lab	24	49	2
14VV1A1228	RT4112O	Hadoop & Big Data Lab	23	46	2
14VV1A1229	RT41051	Cryptography and Network Security	21	14	0
14VV1A1229	RT41052	UML & Design Patterns	17	42	3
14VV1A1229	RT41053	Mobile Computing	19	35	3
14VV1A1229	RT41056	Information Retrieval Systems	25	40	3
14VV1A1229	RT4105B	Hadoop and Big Data	29	30	3
14VV1A1229	RT4112L	UML & Design Patterns Lab	20	39	2
14VV1A1229	RT4112M	Mobile Application Development Lab	20	38	2
14VV1A1229	RT4112N	Software Engineering Lab	20	36	2
14VV1A1229	RT4112O	Hadoop & Big Data Lab	19	36	2
14VV1A1230	RT41051	Cryptography and Network Security	27	30	3
14VV1A1230	RT41052	UML & Design Patterns	24	41	3
14VV1A1230	RT41053	Mobile Computing	23	32	3
14VV1A1230	RT41056	Information Retrieval Systems	25	36	3
14VV1A1230	RT4105B	Hadoop and Big Data	29	45	3
14VV1A1230	RT4112L	UML & Design Patterns Lab	23	46	2
14VV1A1230	RT4112M	Mobile Application Development Lab	21	44	2
14VV1A1230	RT4112N	Software Engineering Lab	22	42	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A1230	RT4112O	Hadoop & Big Data Lab	22	41	2
14VV1A1231	RT41051	Cryptography and Network Security	28	28	3
14VV1A1231	RT41052	UML & Design Patterns	25	43	3
14VV1A1231	RT41053	Mobile Computing	25	42	3
14VV1A1231	RT41056	Information Retrieval Systems	25	45	3
14VV1A1231	RT4105B	Hadoop and Big Data	26	42	3
14VV1A1231	RT4112L	UML & Design Patterns Lab	22	46	2
14VV1A1231	RT4112M	Mobile Application Development Lab	21	43	2
14VV1A1231	RT4112N	Software Engineering Lab	21	40	2
14VV1A1231	RT4112O	Hadoop & Big Data Lab	22	42	2
14VV1A1233	RT41051	Cryptography and Network Security	29	37	3
14VV1A1233	RT41052	UML & Design Patterns	24	47	3
14VV1A1233	RT41053	Mobile Computing	25	48	3
14VV1A1233	RT41056	Information Retrieval Systems	26	40	3
14VV1A1233	RT4105B	Hadoop and Big Data	28	45	3
14VV1A1233	RT4112L	UML & Design Patterns Lab	21	46	2
14VV1A1233	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1233	RT4112N	Software Engineering Lab	22	41	2
14VV1A1233	RT4112O	Hadoop & Big Data Lab	22	41	2
14VV1A1234	RT41051	Cryptography and Network Security	29	45	3
14VV1A1234	RT41052	UML & Design Patterns	25	48	3
14VV1A1234	RT41053	Mobile Computing	24	56	3
14VV1A1234	RT41056	Information Retrieval Systems	23	53	3
14VV1A1234	RT4105B	Hadoop and Big Data	21	53	3
14VV1A1234	RT4112L	UML & Design Patterns Lab	23	47	2
14VV1A1234	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1234	RT4112N	Software Engineering Lab	24	48	2
14VV1A1234	RT4112O	Hadoop & Big Data Lab	22	42	2
14VV1A1235	RT41051	Cryptography and Network Security	26	42	3
14VV1A1235	RT41052	UML & Design Patterns	24	49	3
14VV1A1235	RT41053	Mobile Computing	24	54	3
14VV1A1235	RT41056	Information Retrieval Systems	22	49	3
14VV1A1235	RT4105B	Hadoop and Big Data	28	49	3
14VV1A1235	RT4112L	UML & Design Patterns Lab	21	45	2
14VV1A1235	RT4112M	Mobile Application Development Lab	21	46	2
14VV1A1235	RT4112N	Software Engineering Lab	22	44	2
14VV1A1235	RT4112O	Hadoop & Big Data Lab	22	41	2
14VV1A1236	RT41051	Cryptography and Network Security	27	28	3
14VV1A1236	RT41052	UML & Design Patterns	24	51	3
14VV1A1236	RT41053	Mobile Computing	23	54	3
14VV1A1236	RT41056	Information Retrieval Systems	22	48	3
14VV1A1236	RT4105B	Hadoop and Big Data	23	54	3
14VV1A1236	RT4112L	UML & Design Patterns Lab	22	45	2
14VV1A1236	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1236	RT4112N	Software Engineering Lab	22	43	2
14VV1A1236	RT4112O	Hadoop & Big Data Lab	21	37	2
14VV1A1237	RT41051	Cryptography and Network Security	27	30	3
14VV1A1237	RT41052	UML & Design Patterns	25	48	3
14VV1A1237	RT41053	Mobile Computing	25	40	3
14VV1A1237	RT41056	Information Retrieval Systems	25	45	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A1237	RT4105B	Hadoop and Big Data	29	47	3
14VV1A1237	RT4112L	UML & Design Patterns Lab	23	46	2
14VV1A1237	RT4112M	Mobile Application Development Lab	20	42	2
14VV1A1237	RT4112N	Software Engineering Lab	24	49	2
14VV1A1237	RT4112O	Hadoop & Big Data Lab	23	44	2
14VV1A1238	RT41051	Cryptography and Network Security	24	32	3
14VV1A1238	RT41052	UML & Design Patterns	25	45	3
14VV1A1238	RT41053	Mobile Computing	25	33	3
14VV1A1238	RT41056	Information Retrieval Systems	24	25	3
14VV1A1238	RT4105B	Hadoop and Big Data	26	42	3
14VV1A1238	RT4112L	UML & Design Patterns Lab	22	45	2
14VV1A1238	RT4112M	Mobile Application Development Lab	20	44	2
14VV1A1238	RT4112N	Software Engineering Lab	23	47	2
14VV1A1238	RT4112O	Hadoop & Big Data Lab	23	44	2
14VV1A1239	RT41051	Cryptography and Network Security	22	45	3
14VV1A1239	RT41052	UML & Design Patterns	20	41	3
14VV1A1239	RT41053	Mobile Computing	24	45	3
14VV1A1239	RT41056	Information Retrieval Systems	24	42	3
14VV1A1239	RT4105B	Hadoop and Big Data	28	42	3
14VV1A1239	RT4112L	UML & Design Patterns Lab	21	44	2
14VV1A1239	RT4112M	Mobile Application Development Lab	20	42	2
14VV1A1239	RT4112N	Software Engineering Lab	22	40	2
14VV1A1239	RT4112O	Hadoop & Big Data Lab	20	38	2
14VV1A1240	RT41051	Cryptography and Network Security	27	37	3
14VV1A1240	RT41052	UML & Design Patterns	25	49	3
14VV1A1240	RT41053	Mobile Computing	22	49	3
14VV1A1240	RT41056	Information Retrieval Systems	25	42	3
14VV1A1240	RT4105B	Hadoop and Big Data	26	51	3
14VV1A1240	RT4112L	UML & Design Patterns Lab	22	38	2
14VV1A1240	RT4112M	Mobile Application Development Lab	20	37	2
14VV1A1240	RT4112N	Software Engineering Lab	20	37	2
14VV1A1240	RT4112O	Hadoop & Big Data Lab	19	35	2
14VV1A1241	RT41051	Cryptography and Network Security	26	48	3
14VV1A1241	RT41052	UML & Design Patterns	25	51	3
14VV1A1241	RT41053	Mobile Computing	24	53	3
14VV1A1241	RT41056	Information Retrieval Systems	25	50	3
14VV1A1241	RT4105B	Hadoop and Big Data	29	53	3
14VV1A1241	RT4112L	UML & Design Patterns Lab	25	47	2
14VV1A1241	RT4112M	Mobile Application Development Lab	20	43	2
14VV1A1241	RT4112N	Software Engineering Lab	24	46	2
14VV1A1241	RT4112O	Hadoop & Big Data Lab	23	44	2
14VV1A1242	RT41051	Cryptography and Network Security	23	41	3
14VV1A1242	RT41052	UML & Design Patterns	24	47	3
14VV1A1242	RT41053	Mobile Computing	24	40	3
14VV1A1242	RT41056	Information Retrieval Systems	23	44	3
14VV1A1242	RT4105B	Hadoop and Big Data	28	49	3
14VV1A1242	RT4112L	UML & Design Patterns Lab	22	44	2
14VV1A1242	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1242	RT4112N	Software Engineering Lab	22	40	2
14VV1A1242	RT4112O	Hadoop & Big Data Lab	21	39	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A1244	RT41051	Cryptography and Network Security	23	25	3
14VV1A1244	RT41052	UML & Design Patterns	23	35	3
14VV1A1244	RT41053	Mobile Computing	24	34	3
14VV1A1244	RT41056	Information Retrieval Systems	22	43	3
14VV1A1244	RT4105B	Hadoop and Big Data	20	48	3
14VV1A1244	RT4112L	UML & Design Patterns Lab	23	46	2
14VV1A1244	RT4112M	Mobile Application Development Lab	20	43	2
14VV1A1244	RT4112N	Software Engineering Lab	21	40	2
14VV1A1244	RT4112O	Hadoop & Big Data Lab	22	39	2
14VV1A1245	RT41051	Cryptography and Network Security	24	43	3
14VV1A1245	RT41052	UML & Design Patterns	25	48	3
14VV1A1245	RT41053	Mobile Computing	24	48	3
14VV1A1245	RT41056	Information Retrieval Systems	22	46	3
14VV1A1245	RT4105B	Hadoop and Big Data	28	45	3
14VV1A1245	RT4112L	UML & Design Patterns Lab	22	46	2
14VV1A1245	RT4112M	Mobile Application Development Lab	21	45	2
14VV1A1245	RT4112N	Software Engineering Lab	21	39	2
14VV1A1245	RT4112O	Hadoop & Big Data Lab	21	39	2
14VV1A1246	RT41051	Cryptography and Network Security	27	49	3
14VV1A1246	RT41052	UML & Design Patterns	24	50	3
14VV1A1246	RT41053	Mobile Computing	23	46	3
14VV1A1246	RT41056	Information Retrieval Systems	22	47	3
14VV1A1246	RT4105B	Hadoop and Big Data	29	51	3
14VV1A1246	RT4112L	UML & Design Patterns Lab	22	46	2
14VV1A1246	RT4112M	Mobile Application Development Lab	21	44	2
14VV1A1246	RT4112N	Software Engineering Lab	22	40	2
14VV1A1246	RT4112O	Hadoop & Big Data Lab	22	38	2
14VV1A1247	RT41051	Cryptography and Network Security	24	46	3
14VV1A1247	RT41052	UML & Design Patterns	25	50	3
14VV1A1247	RT41053	Mobile Computing	24	58	3
14VV1A1247	RT41056	Information Retrieval Systems	24	48	3
14VV1A1247	RT4105B	Hadoop and Big Data	28	51	3
14VV1A1247	RT4112L	UML & Design Patterns Lab	23	45	2
14VV1A1247	RT4112M	Mobile Application Development Lab	22	43	2
14VV1A1247	RT4112N	Software Engineering Lab	21	39	2
14VV1A1247	RT4112O	Hadoop & Big Data Lab	22	40	2
14VV1A1248	RT41051	Cryptography and Network Security	15	41	3
14VV1A1248	RT41052	UML & Design Patterns	26	45	3
14VV1A1248	RT41053	Mobile Computing	25	45	3
14VV1A1248	RT41056	Information Retrieval Systems	17	49	3
14VV1A1248	RT4105B	Hadoop and Big Data	25	46	3
14VV1A1248	RT4112L	UML & Design Patterns Lab	22	44	2
14VV1A1248	RT4112M	Mobile Application Development Lab	20	45	2
14VV1A1248	RT4112N	Software Engineering Lab	21	41	2
14VV1A1248	RT4112O	Hadoop & Big Data Lab	22	40	2
14VV1A1249	RT41051	Cryptography and Network Security	29	39	3
14VV1A1249	RT41052	UML & Design Patterns	26	50	3
14VV1A1249	RT41053	Mobile Computing	25	36	3
14VV1A1249	RT41056	Information Retrieval Systems	21	47	3
14VV1A1249	RT4105B	Hadoop and Big Data	28	56	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A1249	RT4112L	UML & Design Patterns Lab	23	46	2
14VV1A1249	RT4112M	Mobile Application Development Lab	20	44	2
14VV1A1249	RT4112N	Software Engineering Lab	22	41	2
14VV1A1249	RT4112O	Hadoop & Big Data Lab	22	44	2
14VV1A1251	RT41051	Cryptography and Network Security	25	45	3
14VV1A1251	RT41052	UML & Design Patterns	26	46	3
14VV1A1251	RT41053	Mobile Computing	25	56	3
14VV1A1251	RT41056	Information Retrieval Systems	25	43	3
14VV1A1251	RT4105B	Hadoop and Big Data	27	45	3
14VV1A1251	RT4112L	UML & Design Patterns Lab	23	47	2
14VV1A1251	RT4112M	Mobile Application Development Lab	21	46	2
14VV1A1251	RT4112N	Software Engineering Lab	22	40	2
14VV1A1251	RT4112O	Hadoop & Big Data Lab	22	41	2
14VV1A1252	RT41051	Cryptography and Network Security	27	33	3
14VV1A1252	RT41052	UML & Design Patterns	25	47	3
14VV1A1252	RT41053	Mobile Computing	27	48	3
14VV1A1252	RT41056	Information Retrieval Systems	24	50	3
14VV1A1252	RT4105B	Hadoop and Big Data	29	53	3
14VV1A1252	RT4112L	UML & Design Patterns Lab	24	46	2
14VV1A1252	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1252	RT4112N	Software Engineering Lab	23	42	2
14VV1A1252	RT4112O	Hadoop & Big Data Lab	22	37	2
14VV1A1253	RT41051	Cryptography and Network Security	24	43	3
14VV1A1253	RT41052	UML & Design Patterns	25	44	3
14VV1A1253	RT41053	Mobile Computing	26	30	3
14VV1A1253	RT41056	Information Retrieval Systems	24	34	3
14VV1A1253	RT4105B	Hadoop and Big Data	30	45	3
14VV1A1253	RT4112L	UML & Design Patterns Lab	25	48	2
14VV1A1253	RT4112M	Mobile Application Development Lab	22	46	2
14VV1A1253	RT4112N	Software Engineering Lab	22	44	2
14VV1A1253	RT4112O	Hadoop & Big Data Lab	24	47	2
14VV1A1256	RT41051	Cryptography and Network Security	28	24	3
14VV1A1256	RT41052	UML & Design Patterns	22	41	3
14VV1A1256	RT41053	Mobile Computing	24	29	3
14VV1A1256	RT41056	Information Retrieval Systems	24	33	3
14VV1A1256	RT4105B	Hadoop and Big Data	28	37	3
14VV1A1256	RT4112L	UML & Design Patterns Lab	22	46	2
14VV1A1256	RT4112M	Mobile Application Development Lab	22	45	2
14VV1A1256	RT4112N	Software Engineering Lab	23	48	2
14VV1A1256	RT4112O	Hadoop & Big Data Lab	22	40	2
14VV1A1257	RT41051	Cryptography and Network Security	28	48	3
14VV1A1257	RT41052	UML & Design Patterns	26	49	3
14VV1A1257	RT41053	Mobile Computing	26	58	3
14VV1A1257	RT41056	Information Retrieval Systems	22	42	3
14VV1A1257	RT4105B	Hadoop and Big Data	28	48	3
14VV1A1257	RT4112L	UML & Design Patterns Lab	23	46	2
14VV1A1257	RT4112M	Mobile Application Development Lab	21	46	2
14VV1A1257	RT4112N	Software Engineering Lab	22	44	2
14VV1A1257	RT4112O	Hadoop & Big Data Lab	22	44	2
14VV1A3101	MT4101	Metal Forming & Press Tools	27	45	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A3101	MT4102	Electro Metallurgy & Corrosion	25	56	3
14VV1A3101	MT4103	Computer Applications in Metallurgy & Mater	25	47	3
14VV1A3101	MT4104	Powder Metallurgy	27	34	3
14VV1A3101	MT4105	Non - Conventional Sources of Energy	23	56	3
14VV1A3101	MT4108	Light Metals and Alloys	28	44	3
14VV1A3101	MT4111	Metal Forming & Press Tools Lab	22	44	2
14VV1A3101	MT4112	Electro Metallurgy and Corrosion Lab	24	44	2
14VV1A3102	MT4101	Metal Forming & Press Tools	27	47	3
14VV1A3102	MT4102	Electro Metallurgy & Corrosion	21	54	3
14VV1A3102	MT4103	Computer Applications in Metallurgy & Mater	25	47	3
14VV1A3102	MT4104	Powder Metallurgy	27	31	3
14VV1A3102	MT4105	Non - Conventional Sources of Energy	20	46	3
14VV1A3102	MT4108	Light Metals and Alloys	27	46	3
14VV1A3102	MT4111	Metal Forming & Press Tools Lab	21	43	2
14VV1A3102	MT4112	Electro Metallurgy and Corrosion Lab	23	41	2
14VV1A3103	MT4101	Metal Forming & Press Tools	24	37	3
14VV1A3103	MT4102	Electro Metallurgy & Corrosion	18	52	3
14VV1A3103	MT4103	Computer Applications in Metallurgy & Mater	26	38	3
14VV1A3103	MT4104	Powder Metallurgy	26	40	3
14VV1A3103	MT4105	Non - Conventional Sources of Energy	24	42	3
14VV1A3103	MT4108	Light Metals and Alloys	26	38	3
14VV1A3103	MT4111	Metal Forming & Press Tools Lab	22	45	2
14VV1A3103	MT4112	Electro Metallurgy and Corrosion Lab	24	40	2
14VV1A3104	MT4101	Metal Forming & Press Tools	26	55	3
14VV1A3104	MT4102	Electro Metallurgy & Corrosion	27	59	3
14VV1A3104	MT4103	Computer Applications in Metallurgy & Mater	25	51	3
14VV1A3104	MT4104	Powder Metallurgy	28	28	3
14VV1A3104	MT4105	Non - Conventional Sources of Energy	25	52	3
14VV1A3104	MT4108	Light Metals and Alloys	28	42	3
14VV1A3104	MT4111	Metal Forming & Press Tools Lab	22	43	2
14VV1A3104	MT4112	Electro Metallurgy and Corrosion Lab	23	43	2
14VV1A3105	MT4101	Metal Forming & Press Tools	28	46	3
14VV1A3105	MT4102	Electro Metallurgy & Corrosion	21	58	3
14VV1A3105	MT4103	Computer Applications in Metallurgy & Mater	27	47	3
14VV1A3105	MT4104	Powder Metallurgy	30	42	3
14VV1A3105	MT4105	Non - Conventional Sources of Energy	24	52	3
14VV1A3105	MT4108	Light Metals and Alloys	28	52	3
14VV1A3105	MT4111	Metal Forming & Press Tools Lab	23	43	2
14VV1A3105	MT4112	Electro Metallurgy and Corrosion Lab	24	40	2
14VV1A3106	MT4101	Metal Forming & Press Tools	23	31	3
14VV1A3106	MT4102	Electro Metallurgy & Corrosion	17	24	3
14VV1A3106	MT4103	Computer Applications in Metallurgy & Mater	22	32	3
14VV1A3106	MT4104	Powder Metallurgy	25	14	0
14VV1A3106	MT4105	Non - Conventional Sources of Energy	19	52	3
14VV1A3106	MT4108	Light Metals and Alloys	25	48	3
14VV1A3106	MT4111	Metal Forming & Press Tools Lab	20	43	2
14VV1A3106	MT4112	Electro Metallurgy and Corrosion Lab	23	42	2
14VV1A3107	MT4101	Metal Forming & Press Tools	25	44	3
14VV1A3107	MT4102	Electro Metallurgy & Corrosion	23	55	3
14VV1A3107	MT4103	Computer Applications in Metallurgy & Mater	24	48	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A3107	MT4104	Powder Metallurgy	30	36	3
14VV1A3107	MT4105	Non - Conventional Sources of Energy	25	48	3
14VV1A3107	MT4108	Light Metals and Alloys	28	48	3
14VV1A3107	MT4111	Metal Forming & Press Tools Lab	22	43	2
14VV1A3107	MT4112	Electro Metallurgy and Corrosion Lab	23	41	2
14VV1A3108	MT4101	Metal Forming & Press Tools	27	40	3
14VV1A3108	MT4102	Electro Metallurgy & Corrosion	23	60	3
14VV1A3108	MT4103	Computer Applications in Metallurgy & Mater	21	49	3
14VV1A3108	MT4104	Powder Metallurgy	28	44	3
14VV1A3108	MT4105	Non - Conventional Sources of Energy	24	46	3
14VV1A3108	MT4108	Light Metals and Alloys	27	52	3
14VV1A3108	MT4111	Metal Forming & Press Tools Lab	22	42	2
14VV1A3108	MT4112	Electro Metallurgy and Corrosion Lab	24	40	2
14VV1A3109	MT4101	Metal Forming & Press Tools	19	34	3
14VV1A3109	MT4102	Electro Metallurgy & Corrosion	23	51	3
14VV1A3109	MT4103	Computer Applications in Metallurgy & Mater	23	39	3
14VV1A3109	MT4104	Powder Metallurgy	27	25	3
14VV1A3109	MT4105	Non - Conventional Sources of Energy	16	46	3
14VV1A3109	MT4108	Light Metals and Alloys	25	40	3
14VV1A3109	MT4111	Metal Forming & Press Tools Lab	21	40	2
14VV1A3109	MT4112	Electro Metallurgy and Corrosion Lab	23	38	2
14VV1A3110	MT4101	Metal Forming & Press Tools	28	55	3
14VV1A3110	MT4102	Electro Metallurgy & Corrosion	26	59	3
14VV1A3110	MT4103	Computer Applications in Metallurgy & Mater	27	53	3
14VV1A3110	MT4104	Powder Metallurgy	28	50	3
14VV1A3110	MT4105	Non - Conventional Sources of Energy	25	54	3
14VV1A3110	MT4108	Light Metals and Alloys	28	56	3
14VV1A3110	MT4111	Metal Forming & Press Tools Lab	23	45	2
14VV1A3110	MT4112	Electro Metallurgy and Corrosion Lab	24	43	2
14VV1A3111	MT4101	Metal Forming & Press Tools	28	48	3
14VV1A3111	MT4102	Electro Metallurgy & Corrosion	26	63	3
14VV1A3111	MT4103	Computer Applications in Metallurgy & Mater	28	56	3
14VV1A3111	MT4104	Powder Metallurgy	28	58	3
14VV1A3111	MT4105	Non - Conventional Sources of Energy	27	58	3
14VV1A3111	MT4108	Light Metals and Alloys	29	54	3
14VV1A3111	MT4111	Metal Forming & Press Tools Lab	24	47	2
14VV1A3111	MT4112	Electro Metallurgy and Corrosion Lab	25	45	2
14VV1A3112	MT4101	Metal Forming & Press Tools	23	43	3
14VV1A3112	MT4102	Electro Metallurgy & Corrosion	22	57	3
14VV1A3112	MT4103	Computer Applications in Metallurgy & Mater	22	56	3
14VV1A3112	MT4104	Powder Metallurgy	28	45	3
14VV1A3112	MT4105	Non - Conventional Sources of Energy	23	52	3
14VV1A3112	MT4108	Light Metals and Alloys	27	56	3
14VV1A3112	MT4111	Metal Forming & Press Tools Lab	21	40	2
14VV1A3112	MT4112	Electro Metallurgy and Corrosion Lab	24	40	2
14VV1A3113	MT4101	Metal Forming & Press Tools	27	48	3
14VV1A3113	MT4102	Electro Metallurgy & Corrosion	28	56	3
14VV1A3113	MT4103	Computer Applications in Metallurgy & Mater	25	49	3
14VV1A3113	MT4104	Powder Metallurgy	27	48	3
14VV1A3113	MT4105	Non - Conventional Sources of Energy	22	52	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A3113	MT4108	Light Metals and Alloys	26	52	3
14VV1A3113	MT4111	Metal Forming & Press Tools Lab	23	42	2
14VV1A3113	MT4112	Electro Metallurgy and Corrosion Lab	25	43	2
14VV1A3114	MT4101	Metal Forming & Press Tools	27	35	3
14VV1A3114	MT4102	Electro Metallurgy & Corrosion	23	51	3
14VV1A3114	MT4103	Computer Applications in Metallurgy & Mater	27	48	3
14VV1A3114	MT4104	Powder Metallurgy	25	24	3
14VV1A3114	MT4105	Non - Conventional Sources of Energy	23	49	3
14VV1A3114	MT4108	Light Metals and Alloys	25	43	3
14VV1A3114	MT4111	Metal Forming & Press Tools Lab	22	43	2
14VV1A3114	MT4112	Electro Metallurgy and Corrosion Lab	24	40	2
14VV1A3115	MT4101	Metal Forming & Press Tools	26	36	3
14VV1A3115	MT4102	Electro Metallurgy & Corrosion	16	49	3
14VV1A3115	MT4103	Computer Applications in Metallurgy & Mater	25	47	3
14VV1A3115	MT4104	Powder Metallurgy	26	25	3
14VV1A3115	MT4105	Non - Conventional Sources of Energy	24	52	3
14VV1A3115	MT4108	Light Metals and Alloys	27	40	3
14VV1A3115	MT4111	Metal Forming & Press Tools Lab	22	42	2
14VV1A3115	MT4112	Electro Metallurgy and Corrosion Lab	24	40	2
14VV1A3116	MT4101	Metal Forming & Press Tools	27	48	3
14VV1A3116	MT4102	Electro Metallurgy & Corrosion	26	59	3
14VV1A3116	MT4103	Computer Applications in Metallurgy & Mater	24	51	3
14VV1A3116	MT4104	Powder Metallurgy	27	49	3
14VV1A3116	MT4105	Non - Conventional Sources of Energy	26	54	3
14VV1A3116	MT4108	Light Metals and Alloys	29	48	3
14VV1A3116	MT4111	Metal Forming & Press Tools Lab	21	42	2
14VV1A3116	MT4112	Electro Metallurgy and Corrosion Lab	25	40	2
14VV1A3117	MT4101	Metal Forming & Press Tools	27	43	3
14VV1A3117	MT4102	Electro Metallurgy & Corrosion	27	63	3
14VV1A3117	MT4103	Computer Applications in Metallurgy & Mater	27	47	3
14VV1A3117	MT4104	Powder Metallurgy	28	46	3
14VV1A3117	MT4105	Non - Conventional Sources of Energy	25	56	3
14VV1A3117	MT4108	Light Metals and Alloys	29	62	3
14VV1A3117	MT4111	Metal Forming & Press Tools Lab	23	44	2
14VV1A3117	MT4112	Electro Metallurgy and Corrosion Lab	24	45	2
14VV1A3119	MT4101	Metal Forming & Press Tools	24	45	3
14VV1A3119	MT4102	Electro Metallurgy & Corrosion	19	45	3
14VV1A3119	MT4103	Computer Applications in Metallurgy & Mater	24	44	3
14VV1A3119	MT4104	Powder Metallurgy	28	33	3
14VV1A3119	MT4105	Non - Conventional Sources of Energy	20	52	3
14VV1A3119	MT4108	Light Metals and Alloys	25	44	3
14VV1A3119	MT4111	Metal Forming & Press Tools Lab	22	40	2
14VV1A3119	MT4112	Electro Metallurgy and Corrosion Lab	24	41	2
14VV1A3120	MT4101	Metal Forming & Press Tools	26	49	3
14VV1A3120	MT4102	Electro Metallurgy & Corrosion	23	60	3
14VV1A3120	MT4103	Computer Applications in Metallurgy & Mater	26	48	3
14VV1A3120	MT4104	Powder Metallurgy	27	43	3
14VV1A3120	MT4105	Non - Conventional Sources of Energy	23	50	3
14VV1A3120	MT4108	Light Metals and Alloys	27	50	3
14VV1A3120	MT4111	Metal Forming & Press Tools Lab	23	46	2

Htno	Subcode	Subname	Internal	External	Credits
14VV1A3120	MT4112	Electro Metallurgy and Corrosion Lab	23	43	2
14VV1A3121	MT4101	Metal Forming & Press Tools	24	43	3
14VV1A3121	MT4102	Electro Metallurgy & Corrosion	23	57	3
14VV1A3121	MT4103	Computer Applications in Metallurgy & Mater	25	46	3
14VV1A3121	MT4104	Powder Metallurgy	29	51	3
14VV1A3121	MT4105	Non - Conventional Sources of Energy	23	48	3
14VV1A3121	MT4108	Light Metals and Alloys	26	46	3
14VV1A3121	MT4111	Metal Forming & Press Tools Lab	22	42	2
14VV1A3121	MT4112	Electro Metallurgy and Corrosion Lab	23	44	2
14VV1A3122	MT4101	Metal Forming & Press Tools	26	44	3
14VV1A3122	MT4102	Electro Metallurgy & Corrosion	24	65	3
14VV1A3122	MT4103	Computer Applications in Metallurgy & Mater	24	54	3
14VV1A3122	MT4104	Powder Metallurgy	30	37	3
14VV1A3122	MT4105	Non - Conventional Sources of Energy	22	48	3
14VV1A3122	MT4108	Light Metals and Alloys	28	40	3
14VV1A3122	MT4111	Metal Forming & Press Tools Lab	23	40	2
14VV1A3122	MT4112	Electro Metallurgy and Corrosion Lab	23	44	2
14VV1A3123	MT4101	Metal Forming & Press Tools	29	50	3
14VV1A3123	MT4102	Electro Metallurgy & Corrosion	29	62	3
14VV1A3123	MT4103	Computer Applications in Metallurgy & Mater	28	56	3
14VV1A3123	MT4104	Powder Metallurgy	27	45	3
14VV1A3123	MT4105	Non - Conventional Sources of Energy	25	48	3
14VV1A3123	MT4108	Light Metals and Alloys	28	46	3
14VV1A3123	MT4111	Metal Forming & Press Tools Lab	24	48	2
14VV1A3123	MT4112	Electro Metallurgy and Corrosion Lab	24	48	2
14VV1A3124	MT4101	Metal Forming & Press Tools	22	36	3
14VV1A3124	MT4102	Electro Metallurgy & Corrosion	17	48	3
14VV1A3124	MT4103	Computer Applications in Metallurgy & Mater	22	38	3
14VV1A3124	MT4104	Powder Metallurgy	25	27	3
14VV1A3124	MT4105	Non - Conventional Sources of Energy	19	48	3
14VV1A3124	MT4108	Light Metals and Alloys	28	38	3
14VV1A3124	MT4111	Metal Forming & Press Tools Lab	21	40	2
14VV1A3124	MT4112	Electro Metallurgy and Corrosion Lab	23	41	2
14VV1A3125	MT4101	Metal Forming & Press Tools	26	43	3
14VV1A3125	MT4102	Electro Metallurgy & Corrosion	25	59	3
14VV1A3125	MT4103	Computer Applications in Metallurgy & Mater	24	50	3
14VV1A3125	MT4104	Powder Metallurgy	28	37	3
14VV1A3125	MT4105	Non - Conventional Sources of Energy	24	50	3
14VV1A3125	MT4108	Light Metals and Alloys	25	50	3
14VV1A3125	MT4111	Metal Forming & Press Tools Lab	22	42	2
14VV1A3125	MT4112	Electro Metallurgy and Corrosion Lab	24	44	2
14VV1A3126	MT4101	Metal Forming & Press Tools	24	28	3
14VV1A3126	MT4102	Electro Metallurgy & Corrosion	18	32	3
14VV1A3126	MT4103	Computer Applications in Metallurgy & Mater	21	33	3
14VV1A3126	MT4104	Powder Metallurgy	27	15	0
14VV1A3126	MT4105	Non - Conventional Sources of Energy	17	38	3
14VV1A3126	MT4108	Light Metals and Alloys	26	40	3
14VV1A3126	MT4111	Metal Forming & Press Tools Lab	20	38	2
14VV1A3126	MT4112	Electro Metallurgy and Corrosion Lab	23	39	2
14VV1A3127	MT4101	Metal Forming & Press Tools	26	37	3

Htno	Subcode	Subname	Internal	External	Credits
14VV1A3127	MT4102	Electro Metallurgy & Corrosion	23	52	3
14VV1A3127	MT4103	Computer Applications in Metallurgy & Mater	26	43	3
14VV1A3127	MT4104	Powder Metallurgy	28	40	3
14VV1A3127	MT4105	Non - Conventional Sources of Energy	24	52	3
14VV1A3127	MT4108	Light Metals and Alloys	27	38	3
14VV1A3127	MT4111	Metal Forming & Press Tools Lab	24	46	2
14VV1A3127	MT4112	Electro Metallurgy and Corrosion Lab	23	41	2
14VV1A3128	MT4101	Metal Forming & Press Tools	25	42	3
14VV1A3128	MT4102	Electro Metallurgy & Corrosion	18	52	3
14VV1A3128	MT4103	Computer Applications in Metallurgy & Mater	23	50	3
14VV1A3128	MT4104	Powder Metallurgy	27	34	3
14VV1A3128	MT4105	Non - Conventional Sources of Energy	19	44	3
14VV1A3128	MT4108	Light Metals and Alloys	25	46	3
14VV1A3128	MT4111	Metal Forming & Press Tools Lab	22	43	2
14VV1A3128	MT4112	Electro Metallurgy and Corrosion Lab	23	39	2
14VV1A3129	MT4101	Metal Forming & Press Tools	25	37	3
14VV1A3129	MT4102	Electro Metallurgy & Corrosion	25	54	3
14VV1A3129	MT4103	Computer Applications in Metallurgy & Mater	23	45	3
14VV1A3129	MT4104	Powder Metallurgy	26	34	3
14VV1A3129	MT4105	Non - Conventional Sources of Energy	21	58	3
14VV1A3129	MT4108	Light Metals and Alloys	24	38	3
14VV1A3129	MT4111	Metal Forming & Press Tools Lab	22	44	2
14VV1A3129	MT4112	Electro Metallurgy and Corrosion Lab	23	41	2
15VV5A0131	RT41011	Environmental Engineering - II	25	61	3
15VV5A0131	RT41012	Prestressed Concrete	25	66	3
15VV5A0131	RT41013	Construction Technology and Management	25	42	3
15VV5A0131	RT41014	Water Resource Engineering - II	26	48	3
15VV5A0131	RT41015	Remote Sensing and GIS Applications	25	47	3
15VV5A0131	RT41016	Ground Improvement Techniques	27	46	3
15VV5A0131	RT4101L	Environmental Engineering Lab	25	46	2
15VV5A0131	RT4101M	GIS & CAD Lab	21	47	2
15VV5A0132	RT41011	Environmental Engineering - II	28	65	3
15VV5A0132	RT41012	Prestressed Concrete	23	52	3
15VV5A0132	RT41013	Construction Technology and Management	27	38	3
15VV5A0132	RT41014	Water Resource Engineering - II	25	46	3
15VV5A0132	RT41015	Remote Sensing and GIS Applications	23	51	3
15VV5A0132	RT41016	Ground Improvement Techniques	22	50	3
15VV5A0132	RT4101L	Environmental Engineering Lab	25	47	2
15VV5A0132	RT4101M	GIS & CAD Lab	23	50	2
15VV5A0133	RT41011	Environmental Engineering - II	27	41	3
15VV5A0133	RT41012	Prestressed Concrete	24	48	3
15VV5A0133	RT41013	Construction Technology and Management	25	49	3
15VV5A0133	RT41014	Water Resource Engineering - II	23	47	3
15VV5A0133	RT41015	Remote Sensing and GIS Applications	29	49	3
15VV5A0133	RT41016	Ground Improvement Techniques	21	50	3
15VV5A0133	RT4101L	Environmental Engineering Lab	24	45	2
15VV5A0133	RT4101M	GIS & CAD Lab	22	49	2
15VV5A0261	RT41021	Renewable Energy Sources and Systems	29	43	3
15VV5A0261	RT41022	HVAC & DC Transmission	25	57	3
15VV5A0261	RT41023	Power System Operation & Control	24	43	3

Htno	Subcode	Subname	Internal	External	Credits
15VV5A0261	RT41025	Instrumentation	24	50	3
15VV5A0261	RT41029	Electrical Distribution Systems	24	49	3
15VV5A0261	RT4102L	Microprocessors & Microcontrollers Lab	21	44	2
15VV5A0261	RT4102M	Electrical Simulation Lab	23	42	2
15VV5A0261	RT4102N	Power Systems Lab	22	35	2
15VV5A0262	RT41021	Renewable Energy Sources and Systems	24	30	3
15VV5A0262	RT41022	HVAC & DC Transmission	25	39	3
15VV5A0262	RT41023	Power System Operation & Control	23	29	3
15VV5A0262	RT41025	Instrumentation	21	41	3
15VV5A0262	RT41029	Electrical Distribution Systems	19	36	3
15VV5A0262	RT4102L	Microprocessors & Microcontrollers Lab	20	44	2
15VV5A0262	RT4102M	Electrical Simulation Lab	22	38	2
15VV5A0262	RT4102N	Power Systems Lab	22	38	2
15VV5A0265	RT41021	Renewable Energy Sources and Systems	27	44	3
15VV5A0265	RT41022	HVAC & DC Transmission	25	48	3
15VV5A0265	RT41023	Power System Operation & Control	27	34	3
15VV5A0265	RT41025	Instrumentation	24	46	3
15VV5A0265	RT41029	Electrical Distribution Systems	26	51	3
15VV5A0265	RT4102L	Microprocessors & Microcontrollers Lab	25	49	2
15VV5A0265	RT4102M	Electrical Simulation Lab	23	44	2
15VV5A0265	RT4102N	Power Systems Lab	21	30	2
15VV5A0266	RT41021	Renewable Energy Sources and Systems	30	41	3
15VV5A0266	RT41022	HVAC & DC Transmission	25	44	3
15VV5A0266	RT41023	Power System Operation & Control	27	28	3
15VV5A0266	RT41025	Instrumentation	23	36	3
15VV5A0266	RT41029	Electrical Distribution Systems	25	41	3
15VV5A0266	RT4102L	Microprocessors & Microcontrollers Lab	25	49	2
15VV5A0266	RT4102M	Electrical Simulation Lab	24	41	2
15VV5A0266	RT4102N	Power Systems Lab	22	40	2
15VV5A0267	RT41021	Renewable Energy Sources and Systems	27	39	3
15VV5A0267	RT41022	HVAC & DC Transmission	26	60	3
15VV5A0267	RT41023	Power System Operation & Control	25	30	3
15VV5A0267	RT41025	Instrumentation	24	49	3
15VV5A0267	RT41029	Electrical Distribution Systems	23	48	3
15VV5A0267	RT4102L	Microprocessors & Microcontrollers Lab	22	49	2
15VV5A0267	RT4102M	Electrical Simulation Lab	23	39	2
15VV5A0267	RT4102N	Power Systems Lab	22	38	2
15VV5A0268	RT41021	Renewable Energy Sources and Systems	26	43	3
15VV5A0268	RT41022	HVAC & DC Transmission	23	46	3
15VV5A0268	RT41023	Power System Operation & Control	24	33	3
15VV5A0268	RT41025	Instrumentation	21	50	3
15VV5A0268	RT41029	Electrical Distribution Systems	24	52	3
15VV5A0268	RT4102L	Microprocessors & Microcontrollers Lab	23	45	2
15VV5A0268	RT4102M	Electrical Simulation Lab	23	31	2
15VV5A0268	RT4102N	Power Systems Lab	21	35	2
15VV5A0269	RT41021	Renewable Energy Sources and Systems	21	32	3
15VV5A0269	RT41022	HVAC & DC Transmission	19	37	3
15VV5A0269	RT41023	Power System Operation & Control	12	32	3
15VV5A0269	RT41025	Instrumentation	18	51	3
15VV5A0269	RT41029	Electrical Distribution Systems	18	49	3

Htno	Subcode	Subname	Internal	External	Credits
15VV5A0269	RT4102L	Microprocessors & Microcontrollers Lab	18	40	2
15VV5A0269	RT4102M	Electrical Simulation Lab	20	26	2
15VV5A0269	RT4102N	Power Systems Lab	18	23	2
15VV5A0270	RT41021	Renewable Energy Sources and Systems	27	44	3
15VV5A0270	RT41022	HVAC & DC Transmission	21	50	3
15VV5A0270	RT41023	Power System Operation & Control	21	54	3
15VV5A0270	RT41025	Instrumentation	21	51	3
15VV5A0270	RT41029	Electrical Distribution Systems	25	50	3
15VV5A0270	RT4102L	Microprocessors & Microcontrollers Lab	19	40	2
15VV5A0270	RT4102M	Electrical Simulation Lab	23	44	2
15VV5A0270	RT4102N	Power Systems Lab	20	30	2
15VV5A0361	RT41031	Automobile Engineering	23	50	3
15VV5A0361	RT41032	CAD/CAM	26	47	3
15VV5A0361	RT41033	Finite Element Methods	27	38	3
15VV5A0361	RT41034	Unconventional Machining Processes	27	35	3
15VV5A0361	RT41035	Micro Electro Mechanical Systems	24	45	3
15VV5A0361	RT41039	Automation in Manufacturing	29	58	3
15VV5A0361	RT4103L	Simulation Lab	23	48	2
15VV5A0362	RT41031	Automobile Engineering	18	46	3
15VV5A0362	RT41032	CAD/CAM	21	38	3
15VV5A0362	RT41033	Finite Element Methods	19	29	3
15VV5A0362	RT41034	Unconventional Machining Processes	24	42	3
15VV5A0362	RT41035	Micro Electro Mechanical Systems	23	46	3
15VV5A0362	RT41039	Automation in Manufacturing	24	30	3
15VV5A0362	RT4103L	Simulation Lab	20	43	2
15VV5A0363	RT41031	Automobile Engineering	21	51	3
15VV5A0363	RT41032	CAD/CAM	27	44	3
15VV5A0363	RT41033	Finite Element Methods	26	38	3
15VV5A0363	RT41034	Unconventional Machining Processes	24	47	3
15VV5A0363	RT41035	Micro Electro Mechanical Systems	22	45	3
15VV5A0363	RT41039	Automation in Manufacturing	23	56	3
15VV5A0363	RT4103L	Simulation Lab	22	47	2
15VV5A0364	RT41031	Automobile Engineering	23	53	3
15VV5A0364	RT41032	CAD/CAM	26	43	3
15VV5A0364	RT41033	Finite Element Methods	25	39	3
15VV5A0364	RT41034	Unconventional Machining Processes	25	49	3
15VV5A0364	RT41035	Micro Electro Mechanical Systems	25	50	3
15VV5A0364	RT41039	Automation in Manufacturing	25	59	3
15VV5A0364	RT4103L	Simulation Lab	22	49	2
15VV5A0365	RT41031	Automobile Engineering	18	48	3
15VV5A0365	RT41032	CAD/CAM	24	45	3
15VV5A0365	RT41033	Finite Element Methods	27	41	3
15VV5A0365	RT41034	Unconventional Machining Processes	23	52	3
15VV5A0365	RT41035	Micro Electro Mechanical Systems	22	44	3
15VV5A0365	RT41039	Automation in Manufacturing	23	42	3
15VV5A0365	RT4103L	Simulation Lab	21	48	2
15VV5A0366	RT41031	Automobile Engineering	23	52	3
15VV5A0366	RT41032	CAD/CAM	27	49	3
15VV5A0366	RT41033	Finite Element Methods	22	41	3
15VV5A0366	RT41034	Unconventional Machining Processes	27	46	3

Htno	Subcode	Subname	Internal	External	Credits
15VV5A0366	RT41035	Micro Electro Mechanical Systems	25	49	3
15VV5A0366	RT41039	Automation in Manufacturing	26	52	3
15VV5A0366	RT4103L	Simulation Lab	20	48	2
15VV5A0367	RT41031	Automobile Engineering	23	51	3
15VV5A0367	RT41032	CAD/CAM	26	45	3
15VV5A0367	RT41033	Finite Element Methods	24	50	3
15VV5A0367	RT41034	Unconventional Machining Processes	27	49	3
15VV5A0367	RT41035	Micro Electro Mechanical Systems	27	44	3
15VV5A0367	RT41039	Automation in Manufacturing	23	49	3
15VV5A0367	RT4103L	Simulation Lab	22	49	2
15VV5A0368	RT41031	Automobile Engineering	22	50	3
15VV5A0368	RT41032	CAD/CAM	25	46	3
15VV5A0368	RT41033	Finite Element Methods	20	35	3
15VV5A0368	RT41034	Unconventional Machining Processes	26	48	3
15VV5A0368	RT41035	Micro Electro Mechanical Systems	22	44	3
15VV5A0368	RT41039	Automation in Manufacturing	25	47	3
15VV5A0368	RT4103L	Simulation Lab	22	47	2
15VV5A0369	RT41031	Automobile Engineering	21	43	3
15VV5A0369	RT41032	CAD/CAM	24	47	3
15VV5A0369	RT41033	Finite Element Methods	22	24	3
15VV5A0369	RT41034	Unconventional Machining Processes	26	42	3
15VV5A0369	RT41035	Micro Electro Mechanical Systems	22	44	3
15VV5A0369	RT41039	Automation in Manufacturing	24	53	3
15VV5A0369	RT4103L	Simulation Lab	21	46	2
15VV5A0461	RT41041	VLSI Design	28	34	3
15VV5A0461	RT41042	Computer Networks	23	26	3
15VV5A0461	RT41043	Digital Image Processing	24	34	3
15VV5A0461	RT41044	Computer Architecture & Organization	28	29	3
15VV5A0461	RT41048	Radar Systems	24	56	3
15VV5A0461	RT4104A	Optical Communication	25	52	3
15VV5A0461	RT4104L	VLSI Design Lab	23	46	2
15VV5A0461	RT4104M	Microwave Engineering Lab	23	46	2
15VV5A0462	RT41041	VLSI Design	27	60	3
15VV5A0462	RT41042	Computer Networks	27	35	3
15VV5A0462	RT41043	Digital Image Processing	29	59	3
15VV5A0462	RT41044	Computer Architecture & Organization	29	48	3
15VV5A0462	RT41048	Radar Systems	29	62	3
15VV5A0462	RT4104A	Optical Communication	27	58	3
15VV5A0462	RT4104L	VLSI Design Lab	24	46	2
15VV5A0462	RT4104M	Microwave Engineering Lab	25	48	2
15VV5A0463	RT41041	VLSI Design	27	51	3
15VV5A0463	RT41042	Computer Networks	20	25	3
15VV5A0463	RT41043	Digital Image Processing	21	25	3
15VV5A0463	RT41044	Computer Architecture & Organization	29	34	3
15VV5A0463	RT41048	Radar Systems	25	58	3
15VV5A0463	RT4104A	Optical Communication	21	33	3
15VV5A0463	RT4104L	VLSI Design Lab	23	44	2
15VV5A0463	RT4104M	Microwave Engineering Lab	24	45	2
15VV5A0464	RT41041	VLSI Design	24	43	3
15VV5A0464	RT41042	Computer Networks	27	32	3

Htno	Subcode	Subname	Internal	External	Credits
15VV5A0464	RT41043	Digital Image Processing	27	45	3
15VV5A0464	RT41044	Computer Architecture & Organization	24	25	3
15VV5A0464	RT41048	Radar Systems	23	39	3
15VV5A0464	RT4104A	Optical Communication	23	48	3
15VV5A0464	RT4104L	VLSI Design Lab	24	46	2
15VV5A0464	RT4104M	Microwave Engineering Lab	23	42	2
15VV5A0465	RT41041	VLSI Design	26	41	3
15VV5A0465	RT41042	Computer Networks	20	26	3
15VV5A0465	RT41043	Digital Image Processing	18	24	3
15VV5A0465	RT41044	Computer Architecture & Organization	25	41	3
15VV5A0465	RT41048	Radar Systems	20	48	3
15VV5A0465	RT4104A	Optical Communication	23	47	3
15VV5A0465	RT4104L	VLSI Design Lab	23	44	2
15VV5A0465	RT4104M	Microwave Engineering Lab	23	45	2
15VV5A0466	RT41041	VLSI Design	26	32	3
15VV5A0466	RT41042	Computer Networks	20	26	3
15VV5A0466	RT41043	Digital Image Processing	17	24	3
15VV5A0466	RT41044	Computer Architecture & Organization	24	24	3
15VV5A0466	RT41048	Radar Systems	17	44	3
15VV5A0466	RT4104A	Optical Communication	21	38	3
15VV5A0466	RT4104L	VLSI Design Lab	21	43	2
15VV5A0466	RT4104M	Microwave Engineering Lab	23	43	2
15VV5A0467	RT41041	VLSI Design	24	47	3
15VV5A0467	RT41042	Computer Networks	26	27	3
15VV5A0467	RT41043	Digital Image Processing	23	33	3
15VV5A0467	RT41044	Computer Architecture & Organization	28	35	3
15VV5A0467	RT41048	Radar Systems	21	55	3
15VV5A0467	RT4104A	Optical Communication	23	48	3
15VV5A0467	RT4104L	VLSI Design Lab	24	45	2
15VV5A0467	RT4104M	Microwave Engineering Lab	23	44	2
15VV5A0468	RT41041	VLSI Design	23	46	3
15VV5A0468	RT41042	Computer Networks	23	32	3
15VV5A0468	RT41043	Digital Image Processing	25	50	3
15VV5A0468	RT41044	Computer Architecture & Organization	27	30	3
15VV5A0468	RT41048	Radar Systems	19	48	3
15VV5A0468	RT4104A	Optical Communication	24	51	3
15VV5A0468	RT4104L	VLSI Design Lab	23	44	2
15VV5A0468	RT4104M	Microwave Engineering Lab	23	43	2
15VV5A0469	RT41041	VLSI Design	29	43	3
15VV5A0469	RT41042	Computer Networks	28	30	3
15VV5A0469	RT41043	Digital Image Processing	27	42	3
15VV5A0469	RT41044	Computer Architecture & Organization	28	41	3
15VV5A0469	RT41048	Radar Systems	25	53	3
15VV5A0469	RT4104A	Optical Communication	28	54	3
15VV5A0469	RT4104L	VLSI Design Lab	24	48	2
15VV5A0469	RT4104M	Microwave Engineering Lab	24	47	2
15VV5A0470	RT41041	VLSI Design	24	37	3
15VV5A0470	RT41042	Computer Networks	22	27	3
15VV5A0470	RT41043	Digital Image Processing	21	46	3
15VV5A0470	RT41044	Computer Architecture & Organization	26	33	3

Htno	Subcode	Subname	Internal	External	Credits
15VV5A0470	RT41048	Radar Systems	25	48	3
15VV5A0470	RT4104A	Optical Communication	22	41	3
15VV5A0470	RT4104L	VLSI Design Lab	24	45	2
15VV5A0470	RT4104M	Microwave Engineering Lab	23	42	2
15VV5A0561	RT41051	Cryptography and Network Security	10	15	0
15VV5A0561	RT41052	UML & Design Patterns	24	18	0
15VV5A0561	RT41053	Mobile Computing	20	37	3
15VV5A0561	RT41057	Artificial Intelligence	23	16	0
15VV5A0561	RT4105B	Hadoop and Big Data	17	16	0
15VV5A0561	RT4105L	UML & Design Patterns Lab	22	42	2
15VV5A0561	RT4105M	Mobile Application Development Lab	23	39	2
15VV5A0561	RT4105N	Software Testing Lab	20	43	2
15VV5A0561	RT4105O	Hadoop & Big Data Lab	12	20	2
15VV5A0562	RT41051	Cryptography and Network Security	11	33	3
15VV5A0562	RT41052	UML & Design Patterns	28	40	3
15VV5A0562	RT41053	Mobile Computing	25	39	3
15VV5A0562	RT41057	Artificial Intelligence	24	30	3
15VV5A0562	RT4105B	Hadoop and Big Data	26	17	0
15VV5A0562	RT4105L	UML & Design Patterns Lab	22	44	2
15VV5A0562	RT4105M	Mobile Application Development Lab	19	45	2
15VV5A0562	RT4105N	Software Testing Lab	24	44	2
15VV5A0562	RT4105O	Hadoop & Big Data Lab	14	26	2
15VV5A0563	RT41051	Cryptography and Network Security	12	46	3
15VV5A0563	RT41052	UML & Design Patterns	28	45	3
15VV5A0563	RT41053	Mobile Computing	22	46	3
15VV5A0563	RT41057	Artificial Intelligence	30	38	3
15VV5A0563	RT4105B	Hadoop and Big Data	16	32	3
15VV5A0563	RT4105L	UML & Design Patterns Lab	22	39	2
15VV5A0563	RT4105M	Mobile Application Development Lab	21	42	2
15VV5A0563	RT4105N	Software Testing Lab	22	44	2
15VV5A0563	RT4105O	Hadoop & Big Data Lab	14	22	2
15VV5A0564	RT41051	Cryptography and Network Security	9	31	3
15VV5A0564	RT41052	UML & Design Patterns	29	42	3
15VV5A0564	RT41053	Mobile Computing	23	46	3
15VV5A0564	RT41057	Artificial Intelligence	24	25	3
15VV5A0564	RT4105B	Hadoop and Big Data	18	14	0
15VV5A0564	RT4105L	UML & Design Patterns Lab	23	44	2
15VV5A0564	RT4105M	Mobile Application Development Lab	20	47	2
15VV5A0564	RT4105N	Software Testing Lab	21	44	2
15VV5A0564	RT4105O	Hadoop & Big Data Lab	15	41	2
15VV5A0565	RT41051	Cryptography and Network Security	11	32	3
15VV5A0565	RT41052	UML & Design Patterns	26	51	3
15VV5A0565	RT41053	Mobile Computing	21	37	3
15VV5A0565	RT41057	Artificial Intelligence	25	32	3
15VV5A0565	RT4105B	Hadoop and Big Data	16	43	3
15VV5A0565	RT4105L	UML & Design Patterns Lab	22	43	2
15VV5A0565	RT4105M	Mobile Application Development Lab	23	42	2
15VV5A0565	RT4105N	Software Testing Lab	23	45	2
15VV5A0565	RT4105O	Hadoop & Big Data Lab	13	25	2
15VV5A0566	RT41051	Cryptography and Network Security	9	31	3

Htno	Subcode	Subname	Internal	External	Credits
15VV5A0566	RT41052	UML & Design Patterns	26	38	3
15VV5A0566	RT41053	Mobile Computing	21	40	3
15VV5A0566	RT41057	Artificial Intelligence	24	18	0
15VV5A0566	RT4105B	Hadoop and Big Data	10	5	0
15VV5A0566	RT4105L	UML & Design Patterns Lab	21	41	2
15VV5A0566	RT4105M	Mobile Application Development Lab	22	40	2
15VV5A0566	RT4105N	Software Testing Lab	21	44	2
15VV5A0566	RT4105O	Hadoop & Big Data Lab	11	21	2
15VV5A0567	RT41051	Cryptography and Network Security	12	47	3
15VV5A0567	RT41052	UML & Design Patterns	27	45	3
15VV5A0567	RT41053	Mobile Computing	22	54	3
15VV5A0567	RT41057	Artificial Intelligence	28	31	3
15VV5A0567	RT4105B	Hadoop and Big Data	20	45	3
15VV5A0567	RT4105L	UML & Design Patterns Lab	22	39	2
15VV5A0567	RT4105M	Mobile Application Development Lab	18	48	2
15VV5A0567	RT4105N	Software Testing Lab	24	48	2
15VV5A0567	RT4105O	Hadoop & Big Data Lab	14	31	2
15VV5A0569	RT41051	Cryptography and Network Security	17	39	3
15VV5A0569	RT41052	UML & Design Patterns	28	41	3
15VV5A0569	RT41053	Mobile Computing	23	37	3
15VV5A0569	RT41057	Artificial Intelligence	28	41	3
15VV5A0569	RT4105B	Hadoop and Big Data	22	32	3
15VV5A0569	RT4105L	UML & Design Patterns Lab	22	43	2
15VV5A0569	RT4105M	Mobile Application Development Lab	22	40	2
15VV5A0569	RT4105N	Software Testing Lab	22	44	2
15VV5A0569	RT4105O	Hadoop & Big Data Lab	17	35	2
15VV5A0570	RT41051	Cryptography and Network Security	12	33	3
15VV5A0570	RT41052	UML & Design Patterns	29	45	3
15VV5A0570	RT41053	Mobile Computing	19	49	3
15VV5A0570	RT41057	Artificial Intelligence	28	46	3
15VV5A0570	RT4105B	Hadoop and Big Data	15	36	3
15VV5A0570	RT4105L	UML & Design Patterns Lab	24	45	2
15VV5A0570	RT4105M	Mobile Application Development Lab	24	43	2
15VV5A0570	RT4105N	Software Testing Lab	24	48	2
15VV5A0570	RT4105O	Hadoop & Big Data Lab	12	26	2
15VV5A0572	RT41051	Cryptography and Network Security	11	40	3
15VV5A0572	RT41052	UML & Design Patterns	27	37	3
15VV5A0572	RT41053	Mobile Computing	19	45	3
15VV5A0572	RT41057	Artificial Intelligence	26	28	3
15VV5A0572	RT4105B	Hadoop and Big Data	18	45	3
15VV5A0572	RT4105L	UML & Design Patterns Lab	22	42	2
15VV5A0572	RT4105M	Mobile Application Development Lab	22	44	2
15VV5A0572	RT4105N	Software Testing Lab	21	44	2
15VV5A0572	RT4105O	Hadoop & Big Data Lab	12	22	2
15VV5A1261	RT41051	Cryptography and Network Security	29	38	3
15VV5A1261	RT41052	UML & Design Patterns	25	48	3
15VV5A1261	RT41053	Mobile Computing	27	46	3
15VV5A1261	RT41056	Information Retrieval Systems	24	44	3
15VV5A1261	RT4105B	Hadoop and Big Data	28	41	3
15VV5A1261	RT4112L	UML & Design Patterns Lab	23	47	2

Htno	Subcode	Subname	Internal	External	Credits
15VV5A1261	RT4112M	Mobile Application Development Lab	21	45	2
15VV5A1261	RT4112N	Software Engineering Lab	24	46	2
15VV5A1261	RT4112O	Hadoop & Big Data Lab	22	41	2
15VV5A1262	RT41051	Cryptography and Network Security	19	41	3
15VV5A1262	RT41052	UML & Design Patterns	23	44	3
15VV5A1262	RT41053	Mobile Computing	23	49	3
15VV5A1262	RT41056	Information Retrieval Systems	20	50	3
15VV5A1262	RT4105B	Hadoop and Big Data	27	47	3
15VV5A1262	RT4112L	UML & Design Patterns Lab	22	47	2
15VV5A1262	RT4112M	Mobile Application Development Lab	20	43	2
15VV5A1262	RT4112N	Software Engineering Lab	20	40	2
15VV5A1262	RT4112O	Hadoop & Big Data Lab	21	39	2
15VV5A1263	RT41051	Cryptography and Network Security	20	32	3
15VV5A1263	RT41052	UML & Design Patterns	24	42	3
15VV5A1263	RT41053	Mobile Computing	22	37	3
15VV5A1263	RT41056	Information Retrieval Systems	25	40	3
15VV5A1263	RT4105B	Hadoop and Big Data	21	44	3
15VV5A1263	RT4112L	UML & Design Patterns Lab	22	47	2
15VV5A1263	RT4112M	Mobile Application Development Lab	22	42	2
15VV5A1263	RT4112N	Software Engineering Lab	20	39	2
15VV5A1263	RT4112O	Hadoop & Big Data Lab	21	36	2
15VV5A1264	RT41051	Cryptography and Network Security	22	46	3
15VV5A1264	RT41052	UML & Design Patterns	24	38	3
15VV5A1264	RT41053	Mobile Computing	21	35	3
15VV5A1264	RT41056	Information Retrieval Systems	19	36	3
15VV5A1264	RT4105B	Hadoop and Big Data	27	39	3
15VV5A1264	RT4112L	UML & Design Patterns Lab	22	47	2
15VV5A1264	RT4112M	Mobile Application Development Lab	23	45	2
15VV5A1264	RT4112N	Software Engineering Lab	21	44	2
15VV5A1264	RT4112O	Hadoop & Big Data Lab	22	41	2
15VV5A1265	RT41051	Cryptography and Network Security	15	41	3
15VV5A1265	RT41052	UML & Design Patterns	25	45	3
15VV5A1265	RT41053	Mobile Computing	24	38	3
15VV5A1265	RT41056	Information Retrieval Systems	20	38	3
15VV5A1265	RT4105B	Hadoop and Big Data	28	43	3
15VV5A1265	RT4112L	UML & Design Patterns Lab	21	46	2
15VV5A1265	RT4112M	Mobile Application Development Lab	22	45	2
15VV5A1265	RT4112N	Software Engineering Lab	20	41	2
15VV5A1265	RT4112O	Hadoop & Big Data Lab	22	38	2
15VV5A1266	RT41051	Cryptography and Network Security	27	43	3
15VV5A1266	RT41052	UML & Design Patterns	24	45	3
15VV5A1266	RT41053	Mobile Computing	25	52	3
15VV5A1266	RT41056	Information Retrieval Systems	23	42	3
15VV5A1266	RT4105B	Hadoop and Big Data	29	48	3
15VV5A1266	RT4112L	UML & Design Patterns Lab	21	45	2
15VV5A1266	RT4112M	Mobile Application Development Lab	20	44	2
15VV5A1266	RT4112N	Software Engineering Lab	24	46	2
15VV5A1266	RT4112O	Hadoop & Big Data Lab	22	44	2
15VV5A1267	RT41051	Cryptography and Network Security	26	40	3
15VV5A1267	RT41052	UML & Design Patterns	25	47	3

Htno	Subcode	Subname	Internal	External	Credits
15VV5A1267	RT41053	Mobile Computing	25	48	3
15VV5A1267	RT41056	Information Retrieval Systems	23	50	3
15VV5A1267	RT4105B	Hadoop and Big Data	29	50	3
15VV5A1267	RT4112L	UML & Design Patterns Lab	24	46	2
15VV5A1267	RT4112M	Mobile Application Development Lab	22	46	2
15VV5A1267	RT4112N	Software Engineering Lab	21	42	2
15VV5A1267	RT4112O	Hadoop & Big Data Lab	20	37	2
15VV5A1268	RT41051	Cryptography and Network Security	27	27	3
15VV5A1268	RT41052	UML & Design Patterns	25	41	3
15VV5A1268	RT41053	Mobile Computing	24	49	3
15VV5A1268	RT41056	Information Retrieval Systems	23	41	3
15VV5A1268	RT4105B	Hadoop and Big Data	28	48	3
15VV5A1268	RT4112L	UML & Design Patterns Lab	24	47	2
15VV5A1268	RT4112M	Mobile Application Development Lab	23	45	2
15VV5A1268	RT4112N	Software Engineering Lab	21	42	2
15VV5A1268	RT4112O	Hadoop & Big Data Lab	20	37	2
15VV5A3131	MT4101	Metal Forming & Press Tools	25	40	3
15VV5A3131	MT4102	Electro Metallurgy & Corrosion	23	56	3
15VV5A3131	MT4103	Computer Applications in Metallurgy & Mater	23	31	3
15VV5A3131	MT4104	Powder Metallurgy	27	35	3
15VV5A3131	MT4105	Non - Conventional Sources of Energy	18	40	3
15VV5A3131	MT4108	Light Metals and Alloys	27	38	3
15VV5A3131	MT4111	Metal Forming & Press Tools Lab	23	44	2
15VV5A3131	MT4112	Electro Metallurgy and Corrosion Lab	24	41	2
15VV5A3132	MT4101	Metal Forming & Press Tools	26	46	3
15VV5A3132	MT4102	Electro Metallurgy & Corrosion	24	61	3
15VV5A3132	MT4103	Computer Applications in Metallurgy & Mater	25	53	3
15VV5A3132	MT4104	Powder Metallurgy	26	37	3
15VV5A3132	MT4105	Non - Conventional Sources of Energy	24	58	3
15VV5A3132	MT4108	Light Metals and Alloys	27	50	3
15VV5A3132	MT4111	Metal Forming & Press Tools Lab	23	46	2
15VV5A3132	MT4112	Electro Metallurgy and Corrosion Lab	23	44	2
15VV5A3133	MT4101	Metal Forming & Press Tools	20	44	3
15VV5A3133	MT4102	Electro Metallurgy & Corrosion	17	39	3
15VV5A3133	MT4103	Computer Applications in Metallurgy & Mater	22	29	3
15VV5A3133	MT4104	Powder Metallurgy	26	24	3
15VV5A3133	MT4105	Non - Conventional Sources of Energy	13	44	3
15VV5A3133	MT4108	Light Metals and Alloys	20	50	3
15VV5A3133	MT4111	Metal Forming & Press Tools Lab	20	38	2
15VV5A3133	MT4112	Electro Metallurgy and Corrosion Lab	23	38	2
15VV5A3134	MT4101	Metal Forming & Press Tools	25	35	3
15VV5A3134	MT4102	Electro Metallurgy & Corrosion	15	39	3
15VV5A3134	MT4103	Computer Applications in Metallurgy & Mater	23	33	3
15VV5A3134	MT4104	Powder Metallurgy	19	24	3
15VV5A3134	MT4105	Non - Conventional Sources of Energy	17	53	3
15VV5A3134	MT4108	Light Metals and Alloys	24	41	3
15VV5A3134	MT4111	Metal Forming & Press Tools Lab	21	42	2
15VV5A3134	MT4112	Electro Metallurgy and Corrosion Lab	23	43	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:05-02-2018

N. Mohan Rao
Controller of Examinations